

University of the Philippines Manila
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Online Portal for Provincial Buses and Terminals (OPPBT)

A special problem in partial fulfilment
of the requirements for degree of
Bachelor of Science in Computer Science

Submitted by:

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ACCEPTANCE SHEET

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Abstract

The Online Portal for Provincial Buses and Terminals (OPPBT) is a system that manages bus, terminals, routes, and other types of records and display these information as a way to help the public in searching for terminals with available buses.

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I. Introduction

A. Background of the Study

Several modes of land transportation are operating in the Philippines. There are private ones, which include cars, vans, and SUVs, and there are public ones, like taxis, jeepneys, tricycles, trains, FXs, and buses.

Buses are one of the most popular public utility vehicles, not only in the Philippines, but also around the world. With over 7,000 authorized units travelling in and out of Metro Manila, [1] along with other public utility vehicles, they contribute greatly to the lives of the general public by providing an affordable mode of transportation around the country. Unlike other public utility vehicles, buses are a more practical way to travel on medium or long distances. [2]

Not only do the buses help the general public in providing an affordable mode of transportation, but also they gave people access to different jobs like bus drivers, conductors, dispatchers and others. They also gave the companies governing these buses income for further improvement and maintenance of the buses and its facilities.

B. Statement of the Problem

Currently, one major problem regarding bus systems is people waiting for available buses to arrive at the bus terminal. Buses often have the issue of their passengers waiting for the next bus to arrive, sometimes they wait too much that they often leave the terminal and find other ways to go to their destination in time, no matter how much they need to spend.

These kinds of situations often happen during weekends and holidays like Christmas and Holy Week. Last March 31, 2015, around 8,000 passengers packed the Araneta bus

station that their security measures have increased. There has been a 2% increase in the number of passengers compared to the same date last year. [3]

Another problem is the knowledge of some people regarding the terminals. Some people don't know directly how to go to their destination. They also don't know which terminals have available buses at a particular time.

According to the Traffic Accident Report of the Metro Manila Accident Reporting and Analysis System (MMARAS), there are 5,477 bus related accidents that occurred in Metro Manila from January to December 2009. [4]

Another problem is that authorities don't have records for the maintenance part of the buses the bus companies own, which can be a great help in investigating accidents happening within a certain bus company.

C. Objectives of the Study

The aim of this study is to create an online management system that can help:

1. The commuters:
 - a. to view available buses and their respective routes in their selected bus terminals in real-time.
 - b. to view the location of the terminals through a map.
 - c. to give complaints about a particular bus company. (i.e. fair discounts, cutting trip, change of route, crime involvement)
2. The bus terminal administrator:
 - a. to log into the system
 - b. to update the buses going in and out of the bus terminals whether they are:

- i. Available
 - ii. Unavailable
 - c. to view history of actions (i.e. departure, arrival) of all buses.
 - d. to assign bus personnel in their respective buses.
 - e. to track the current location of the buses registered in the system.
3. The system administrator:
- a. to log into the system
 - b. to create, update, and delete user accounts in the system.
 - c. to create, update, and delete bus lines/companies.
 - d. to create, update, and delete bus terminals in the system.
 - e. to create, update, and delete buses in the system.
 - f. to create, update, and delete routes in the system.
 - g. to create, update, and delete personnel records in the system.
 - h. to view history of actions (i.e. departure, arrival) of all buses.
 - i. to track the current location of the buses registered in the system.
 - j. to view the reports or complaints sent by the commuters.
 - k. to generate reports, including:
 - i. average travel time of buses per route
 - ii. total number of buses travelling a particular route.

D. Significance of the Study

With this system, while waiting in the terminal, people can have instant access to the information of the buses in the terminals and give ‘real-time’ information of the different buses in the country. By tracking the buses, passengers could have an assurance if there are

buses available at a particular bus terminal. People can now also search for bus terminals that offer buses that travel to a destination they want to go to.

Not only the bus companies can keep track of all the buses in their database, but also they can immediately respond to different incidents through the records stored in the system and give decisions regarding the reports or complaints sent by the public.

E. Scope and Limitations

1. This study can access records of bus companies, bus terminals, buses, and routes stored in the system.
2. The system can only be accessed online and requires workforce in updating the system manually. It can also be viewed not only on personal computers, but also on mobile devices through their respective browsers.
3. The system does not focus on the ticketing aspect (i.e. ticket reservation, ticket transaction) of the bus lines.

F. Assumptions

Several assumptions were made prior to the development of this study:

1. The buses and bus terminals have an efficient internet connection to ensure access in the system.
2. Buses have GPS devices attached to them.
3. Bus Operating Companies stored in the database are authorized by LTFRB.
4. The system will not be concerning situations where the buses load/unload passengers in places between stops.
5. The drivers and conductors will inform the bus terminal administrator about whether the bus is available or unavailable.

6. The order of points in the route is always of the correct order.

II. Review of Related Literature

In Hannan, et. al.'s paper, [5] the system uses radio frequency identification along with GPS, GPRS, and GIS for monitoring bus movements. The system proposed uses a device containing the RFID reader, GPS and GPRS transmitter which will send data to the server and incorporates it with the GIS. RFID Tags are positioned in bus stations and these will help tracking down the buses being monitored. With the system, the manpower required at the monitoring centers are reduced, also providing important information to the authorities for monitoring and management.

In the paper made by Gharge et. al., [6] their proposed system consists of different devices which implemented five different modules: Power supply, Transmitter, Receiver, Control, Software. Each module has a different purpose in the system. The power supply module assures that there is an enough supply of current to power any device in the system. The transmitter device sends the GPS coordinates of the bus and will be sent to the receiver device. The control and software part of the system are designed in providing the users all the necessary information regarding the system. With its implementation, the commuter's time is saved, blind people can receive voice generated bus information, which can help them in their travels.

In the paper made by Kannaki, et. al. [7] GPS Devices are installed in the school buses which will send the coordinates to a GSM modem which has a database of details of passengers of a particular stop. The message is then sent to passengers' parents phones alerting them before the bus reached the stop. With this, parents will be informed on when their children will arrive on the bus stop they're waiting.

In their paper, Agrawal, et. al. [8] uses an android app that shows important data to the passengers, like bus density, bus arrival announcements, etc. The server side contains information needed for the different functionalities of the system. This side has a transmitter attached on the buses which will send position data, which will be saved to the system and be used to track these buses via through the client side.

In the study made by Sardey, et. al., [9] they used phones with GPS capability feature as tracking devices for the buses and sending these data over the system for it to process and lets travelers view these information via a mobile application.

Gadhri, et. al. [10] uses an electronic device, an Android phone installed in the vehicle which will give of the position information, allowing the owners or different third parties to track that specific vehicle. The vehicles will be tracked down using a web application.

In Singhal and Shukla's study, [11] they discuss on how to implement location based services in Android using GPS and Web services, which can be used in creating different tracking and monitoring apps, helping users in keeping track of the status of their business or service.

Bhonge, et. al. [12] uses mobile phones in their system wherein users can view the different schedules of buses they want to ride given their input source and destination. The schedules are manually added, modified, and removed in the database on the server side. It also has a GPS functionality wherein users can find their location on a map.

Sujatha, et. al. [13] showcased their mobile based bus tracking system. In it, an app is installed in a phone. The app can only be accessed by registered users. The coordinator users

are the ones giving the location of the buses by tracking the phones. Then, registered end users can view the location of the bus on the mobile app.

In the paper of Punjabi, et. al., [14] their system also uses GPS wherein an Android application fetches coordinates and sends it to the server. The server then alerts students who are registered for the service via SMS. These students are registered for a specific stop. If a particular bus is approaching a stop, the students who registered for that stop will be alerted.

Simulation is the approach Chandurkar, et. al. [15] used wherein they created a simulator for the main application, bus, and the server. The main focus of the system is the application simulator which simulates the mobile application being used by end users, the display of the bus stop billboards, and the control room application. The bus simulator functions as the one giving the real time GPS data and sends it to the server. The server sets as the main center of the application as it is where all the computations and processes are taking place. This is also where the application simulator sends their requests for real-time update.

III. Theoretical Framework

A. Information System (IS)

An information system is an integrated set of components that are used for collecting, storing, processing, and delivering information. These systems are often used by different business firms and organizations for managing operations, interacting with their customers and suppliers, etc. Different individuals also use these for socializing, shopping, banking, and even entertainment.

Different components are required in creating this to ensure its efficiency and reliability. These components include the hardware, the software, the database, and the human resource. These parts are integral in the system for it to deliver information/services to their respective users. [16]

There are advantages for these kinds of systems. One of which is that it facilitates the users during decision making process since the information will be there for them to access. Another advantage is that it makes operation control easier. They are helpful in the managing department, improving the users' performance. [17]

There are also disadvantages when it comes to using these. When the system suddenly shuts down or crashes, the flow of operations could disrupt. Another disadvantage is that data could be inaccurate. False information could lead to wrong decisions. Data can also be hacked if its security is poor. These data could be distributed to different people, and could fall into the wrong hands. [18]

B. Database Management System

A database management system (DBMS) is a system that deals with the creation and management of databases. With DBMS, applications can create, retrieve, update, and manage information.

The DBMS helps the end users to create, read, update, and delete data in the database. DBMS serves as the interface between the database and the end users, ensuring that the information is accessible and organized.

With DBMS, multiple end users can access information in the database, in a centralized and controlled manner, without any problems regarding accuracy and consistency of data. DBMS can also give many views of a particular database schema, showing relevant information to the end user.

Using DBMS can also have its disadvantages. In order to provide the advantages, additional work must be performed. Compared to a simple file storage system, DBMS uses more memory. [19]

C. Global Positioning System

Global Positioning System, or GPS, is a system comprised of 24 satellites orbiting around Earth. GPS receivers receive signals from the satellites and these signals will be compared with the geographical data to calculate the exact location of the device on the planet. [10, 11, 13]

There are many uses of GPS in the lives of the people. It can be used as a tool for producers to increase their yield and profit by integrating it to create a map wherein it serves as a guide for them. Another use of this system is it can be used for mapping and surveying different things, like resources, disasters, and alike.

One of the uses of GPS is in navigation. GPS can be seen in emergency response, search and rescue, transportation management, and automobile guidance systems.

Though GPS is a helpful tool, there could be many sources of errors that can degrade its accuracy, like atmospheric effects, measurement noise, and other things that can distort the signals. [20]

D. Assisted Global Positioning System

Similar to GPS, A-GPS, or Assisted Global Positioning System, uses signals to calculate the exact location of a certain device on the planet. This is often used by phones and other mobile devices.

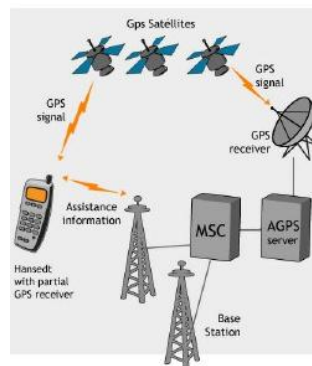


Figure 1. How A-GPS works?

A major difference is that while GPS receive signals directly from the satellites orbiting around Earth, A-GPS receive signals from the satellites via different network resources (i.e. mobile networks), called assistant servers.

One advantage of this method is that it is faster than GPS since there is better connectivity to the servers than directly to the satellites. Another advantage is that things that can distort the signals when received from the satellites will not be a problem to A-GPS.

There are also some disadvantages when it comes to A-GPS. While GPS devices can communicate directly to the satellites for free, A-GPS requires cost since this uses mobile network devices. [21, 22]

IV. Design and Implementation

A. Context Diagram

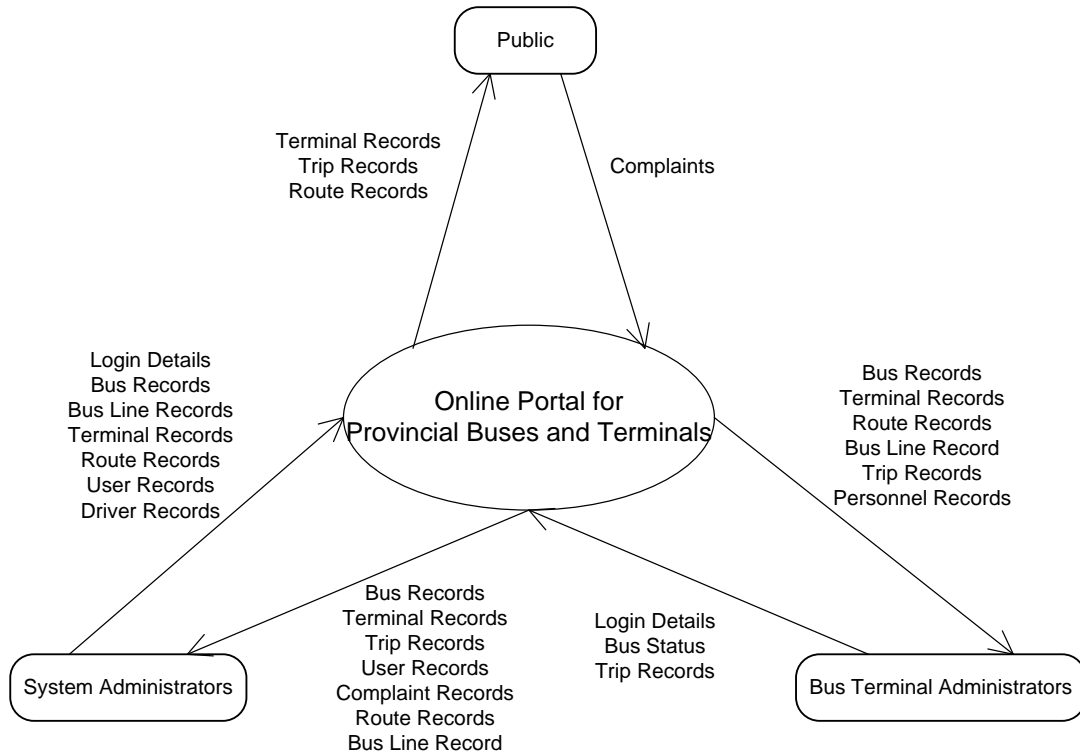


Figure 2. Context Diagram of the Online Portal for Provincial Buses and Terminals

The context diagram illustrates what different users can send and view in the system. All users can view the terminal, bus, bus line, and route records. Only the bus terminal administrators and the system administrators can log in to the system. The system administrators can view the complaint records sent by the public users.

B. Use Case Diagram

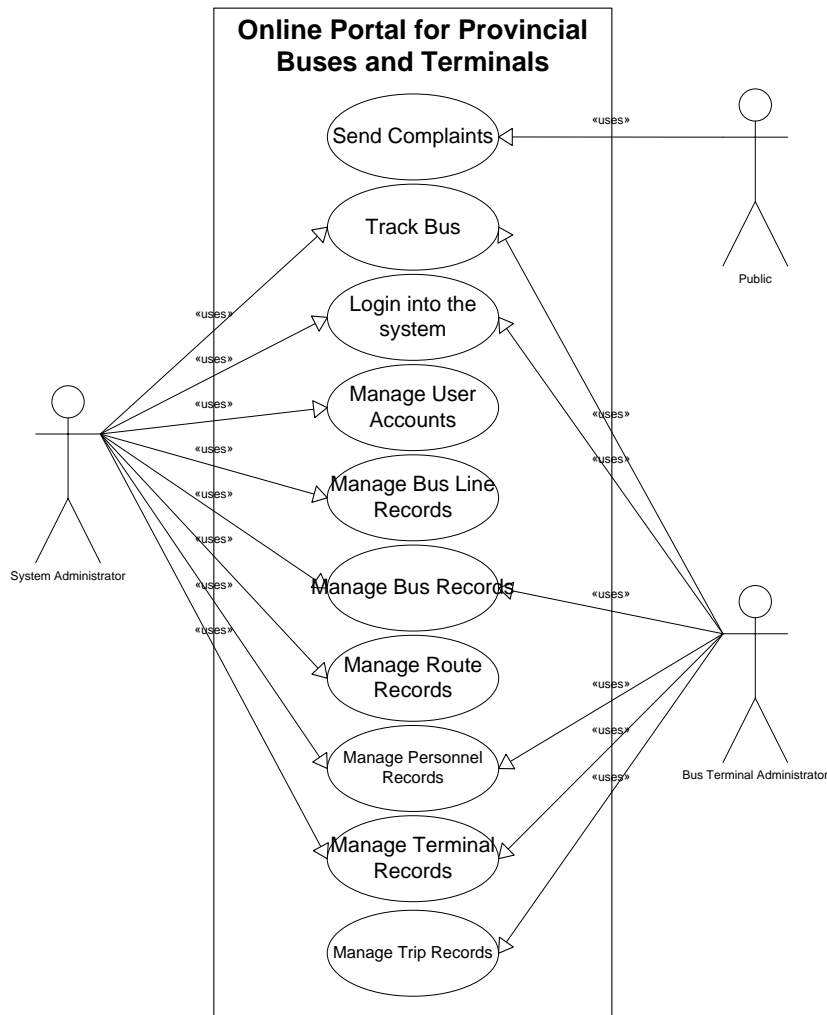


Figure 3. Top Level Use Case Diagram of the Online Portal for Provincial Buses and Terminals

The system consists of three users: the public, the bus terminal administrator, and the system administrator. All users can view information about the buses, bus lines, routes, and bus terminals stored in the database. Only the bus terminal administrator and the system administrator can log into the system and access other functionalities offered by the system, one of which is to track buses.

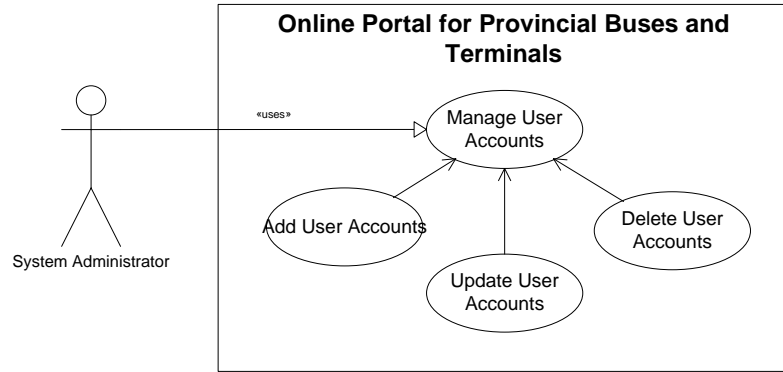


Figure 4. Manage User Accounts Use Case Diagram of the Online Portal for Provincial Buses and Terminals

Only the system administrator has full access on the user accounts. They can create, update, and delete system administrator and bus terminal administrator accounts, which are important in accessing the functionalities of the system.

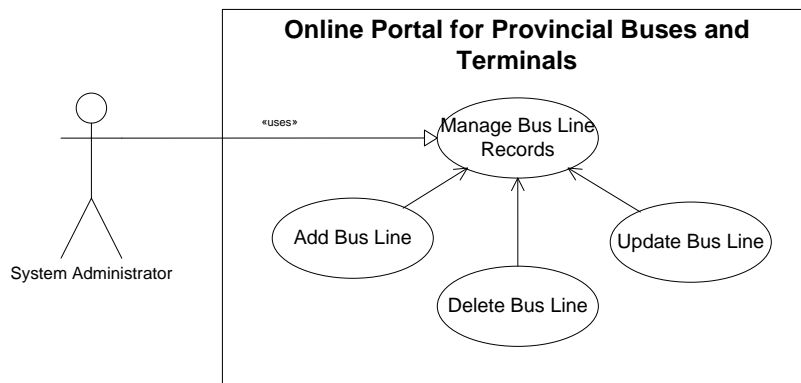


Figure 5. Manage Bus Line Records Use Case Diagram of the Online Portal for Provincial Buses and Terminals

In managing the bus line records, only the system administrator can add and delete bus line records. They can also update the records, including status (suspended or reinstated).

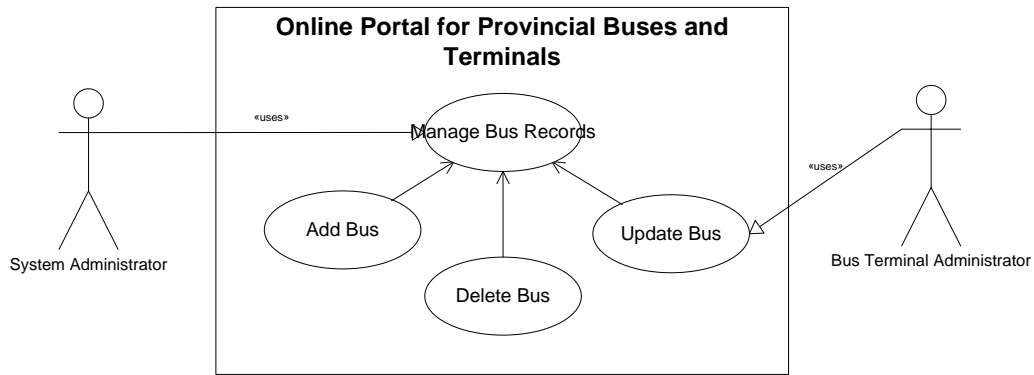


Figure 6. Manage Bus Records Use Case Diagram of the Online Portal for Provincial Buses and Terminals

Managing bus records consists of three things: adding buses, deleting buses, and updating buses. All of these functionalities can be accessed by the system administrator. The bus terminal administrator can only update the availability of their own buses.

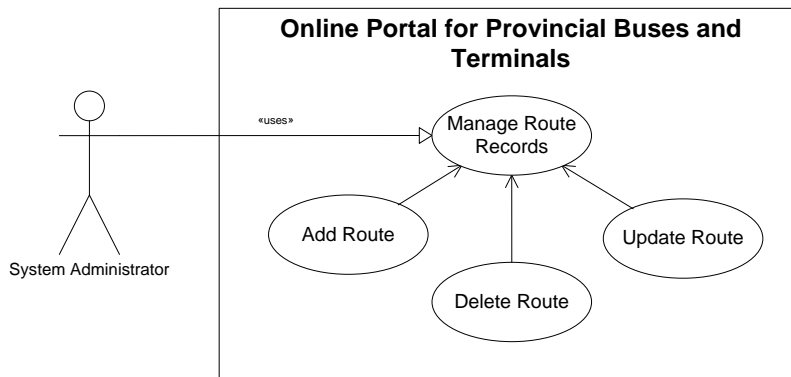


Figure 7. Manage Route Records Use Case Diagram of the Online Portal for Provincial Buses and Terminals

Though all users can view the route records, only the system administrator can manage these records. They can add, update, and delete routes, which is one of the important factors in classifying the buses in the system.

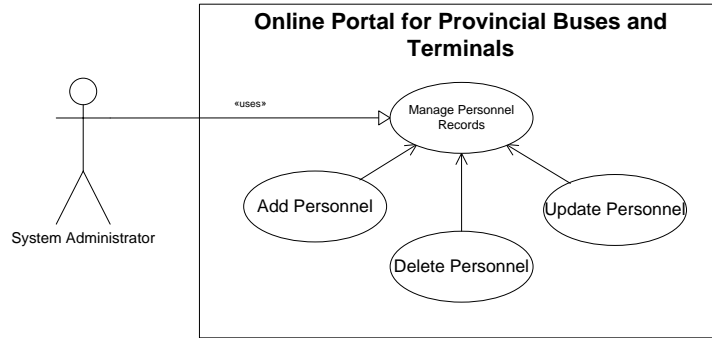


Figure 8. Manage Driver Records Use Case Diagram of the Online Portal for Provincial Buses and Terminals

The system administrator can add, delete and update personnel records, which will be used in creating trip records.

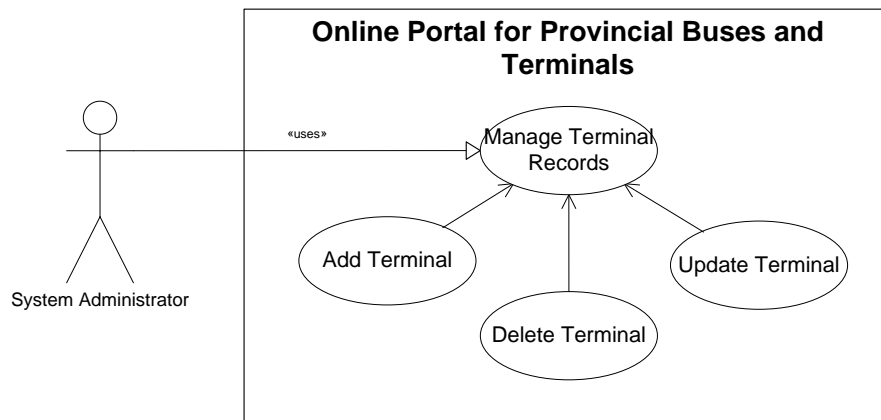


Figure 9. Manage Terminal Records Use Case Diagram of the Online Portal for Provincial Buses and Terminals

In managing terminal records, the system administrator can add, delete, and update terminal/stop records.

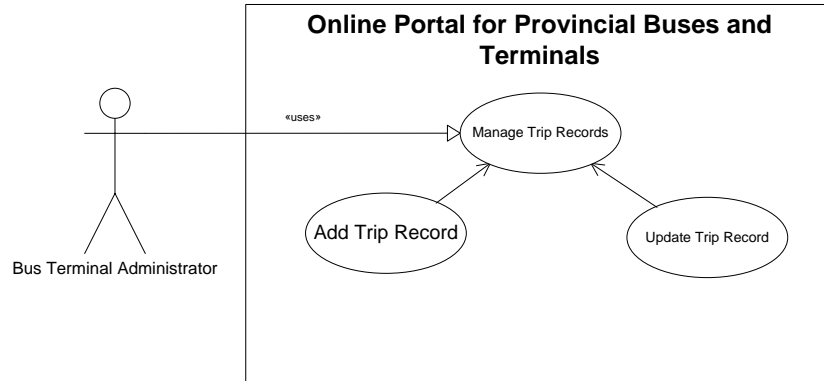


Figure 10. Manage Trip Records Use Case Diagram of the Online Portal for Provincial Buses and Terminals

Only the system administrator can add and update trip records. Though only the system administrator can manage these records, all three users can see these records.

C. Entity Relationship Diagram

The Bus Terminal Management System only consists of a relational database that will be used in disseminating information on the buses and terminals.

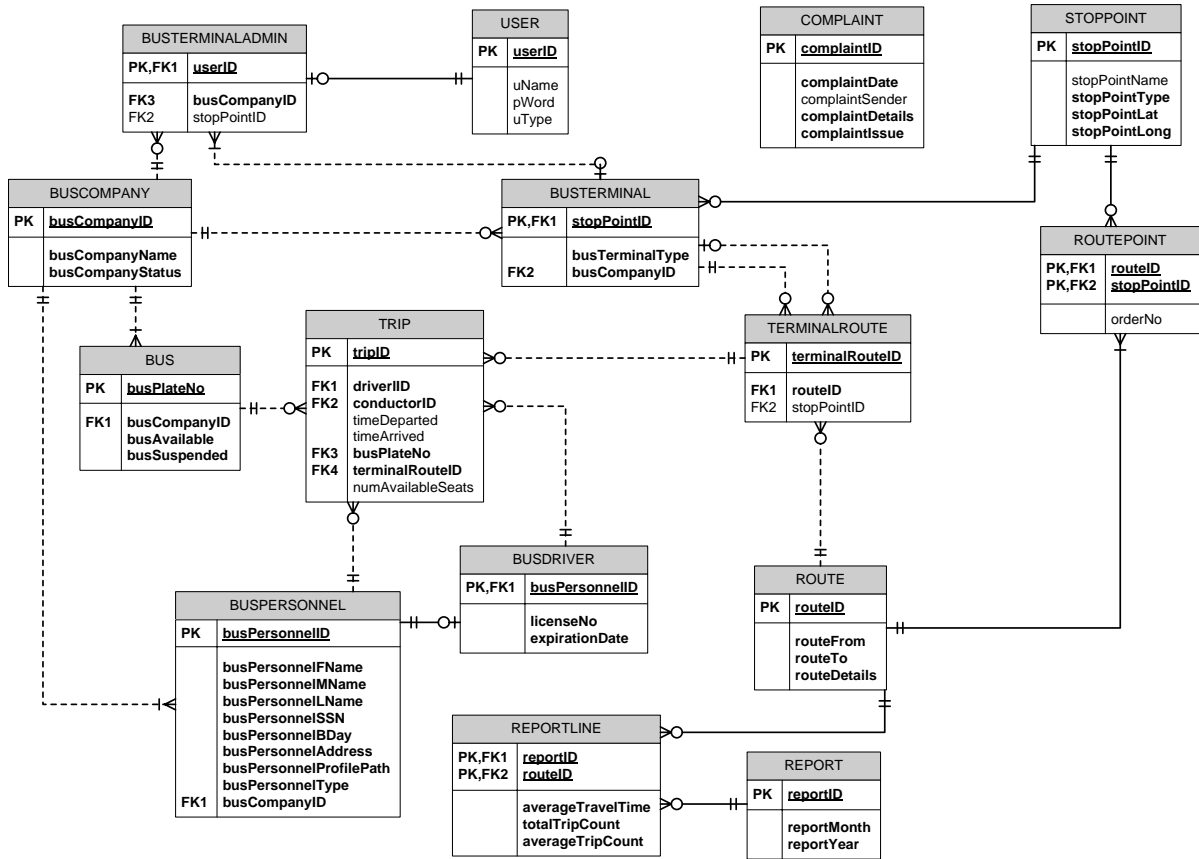


Figure 11. Entity Relationship Diagram of the Online Portal for Provincial Buses and Terminals

D. Data Dictionary

Table 1. BUS table

Field	Type	Description
busPlateNo	VARCHAR(8)	primary key; unique identifier for BUS table
busCompanyID	INTEGER	foreign key; unique identifier for BUSCOMPANY table
busAvailable	BOOLEAN	if bus is available for service
busSuspended	BOOLEAN	if bus is suspended

Table 1 stores the buses' information.

Table 2. BUSCOMPANY table

Field	Type	Description
busCompanyID	INTEGER	primary key; unique identifier for BUSCOMPANY table
busCompanyName	VARCHAR(50)	name of the bus company
busCompanyStatus	ENUM('Active', Suspended)	status of the bus company

Table 2 stores the bus companies' information.

Table 3. BUSDRIVER table

Field	Type	Description
busPersonnelID	INTEGER	foreign key; unique identifier for BUSPERSONNEL table
licenseNo	VARCHAR(13)	license number of bus driver
expirationDate	DATETIME	date of expiration of driver's license

Table 3 stores the bus drivers' additional information.

Table 4. BUSPERSONNEL table

Field	Type	Description
busPersonnelID	INTEGER	primary key; unique identifier for BUSPERSONNEL table
busPersonnelFName	VARCHAR(30)	first name of personnel
busPersonnelMName	VARCHAR(30)	middle name of personnel
busPersonnelLName	VARCHAR(30)	last name of personnel
busPersonnelSSN	INTEGER	ssn of personnel

busPersonnelBDay	DATETIME	birthdate of personnel
busPersonnelAddress	VARCHAR(50)	current address of personnel
busPersonnelProfilePath	VARCHAR(50)	path to profile picture file of personnel
busPersonnelType	ENUM('Conductor', 'Driver')	type of personnel
busCompanyID	INTEGER	foreign key; unique identifier of BUSCOMPANY table

Table 4 stores the drivers and conductors' information.

Table 5. BUSTERMINAL table

Field	Type	Description
stopPointID	INTEGER	foreign key; unique identifier for STOPPOINT table
busTerminalType	ENUM('Shared', 'Private')	type of bus terminal
busCompanyID	INTEGER	foreign key; unique identifier for BUSCOMPANY table

Table 5 stores the bus terminals' information.

Table 6. BUSTERMINALADMIN table

Field	Type	Description
userID	INTEGER	foreign key; unique identifier for USER table
busCompanyID	INTEGER	foreign key; unique identifier for BUSCOMPANY table
stopPointID	INTEGER	foreign key; unique identifier for STOPPOINT table

Table 6 stores the bus terminal admins' information

Table 7. COMPLAINT table

Field	Type	Description
complaintID	INTEGER	primary key; unique identifier for COMPLAINT table
complaintDate	DATETIME	date the complaint is filed
complaintSender	VARCHAR(50)	name of the complaint sender
complaintDetails	VARCHAR(300)	details about the complaint
complaintIssue	ENUM('Discount	issue of the complaint

	Fairness','Cutting Trips','Route Change','Other Crime Involvement')	
--	---	--

Table 7 stores the complaint information sent by the public users.

Table 8. REPORT table

Field	Type	Description
reported	INTEGER	primary key; unique identifier for REPORT table
reportMonth	INTEGER	month that the report covers
reportYear	INTEGER	year that the report covers

Table 8 stores the reports created for the month.

Table 9. REPORTLINE table

Field	Type	Description
reported	INTEGER	foreign key; unique identifier for REPORT table
routeID	INTEGER	foreign key; unique identifier for ROUTE table
averageTravelTime	TIME	average travel time of route per trip
totalTripCount	INTEGER	total number of trips travelled in a given month
averageTripCount	INTEGER	average number of trips per month

Table 9 stores the information gathered for the report.

Table 10. ROUTE table

Field	Type	Description
routeID	INTEGER	primary key; unique identifier for ROUTE table
routeFrom	VARCHAR(50)	starting point of route
routeTo	VARCHAR(50)	ending point of route
routeDetails	VARCHAR(100)	other details about the route

Table 10 stores the route information.

Table 11. ROUTEPOINT table

Field	Type	Description
routeID	INTEGER	foreign key; unique identifier for ROUTE table
stopPointID	INTEGER	foreign key; unique identifier for STOPPOINT table
orderNo	INTEGER	order of point in the route

Table 11 stores the points used in the route.

Table 12. STOPPOINT table

Field	Type	Description
stopPointID	INTEGER	primary key; unique identifier for STOPPOINT table
stopPointName	VARCHAR(30)	name of point
stopPointType	ENUM('Stop', 'Terminal')	type of point
stopPointLat	DECIMAL(18,15)	latitude of point
stopPointLong	DECIMAL(17,14)	longitude of point

Table 12 stores any points used as either route point or terminal.

Table 13. TERMINALROUTE table

Field	Type	Description
terminalRouteID	INTEGER	primary key; unique identifier for TERMINALROUTE table
routeID	INTEGER	routeID is of TERMINALROUTE
stopPointID	INTEGER	foreign key; unique identifier for STOPPOINT table

Table 13 stores information on a outgoing route created by the Bus Terminal Admin.

Table 14. TRIP table

Field	Type	Description
tripID	INTEGER	primary key; unique identifier for TRIP table
driverID	INTEGER	foreign key; unique identifier for BUSDRIVER table
conductorID	INTEGER	foreign key; unique identifier for

		BUSPERSONNEL table
timeDeparted	DATETIME	time the bus departed from terminal
timeArrived	DATETIME	time the bus arrived at terminal
busPlateNo	VARCHAR(8)	foreign key; unique identifier for BUS table
terminalRouteID	INTEGER	foreign key; unique identifier for TERMINALROUTE table
numAvailableSeats	INTEGER	number of available seats

Table 14 stores the trip information.

Table 15. USER table

Field	Type	Description
userID	INTEGER	primary key; unique identifier for USER table
uName	VARCHAR(20)	username
pWord	VARCHAR(60)	password
uType	ENUM('sAdmin','btAdmin')	type of user (system admin, bus terminal admin)

Table 15 stores user information.

V. Architecture

A. System Architecture

The system follows a Model-View-Controller (MVC) software pattern using CodeIgniter. The views managed and encoded the user interface. The backend part of the system is represented by the controllers, which also serves as a way to deliver data to the model, which connects to the database, and the view.

B. Technical Architecture

The system is a web-based system that will be accessible using the Internet. It will follow the client-server architecture. The system should have the following requirements (minimum).

1. 1GHz processor or higher
2. At least 2GB of free disk space
3. 1GB of RAM or higher
4. Web Browser that supports web workers.

VI. Results

A. Public User

Home Page

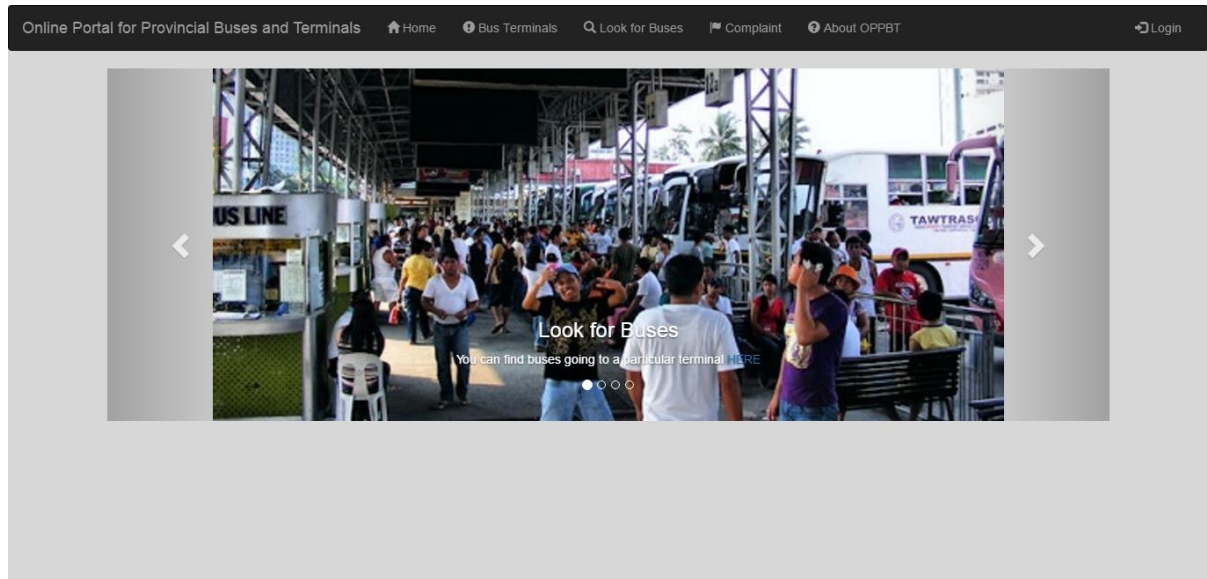


Figure 12. Public User Home Page

As seen in figure 12, this is the general homepage of the portal. This contains links going to the bus terminal records, trip records, file a complaint, and about the system.

View Terminals

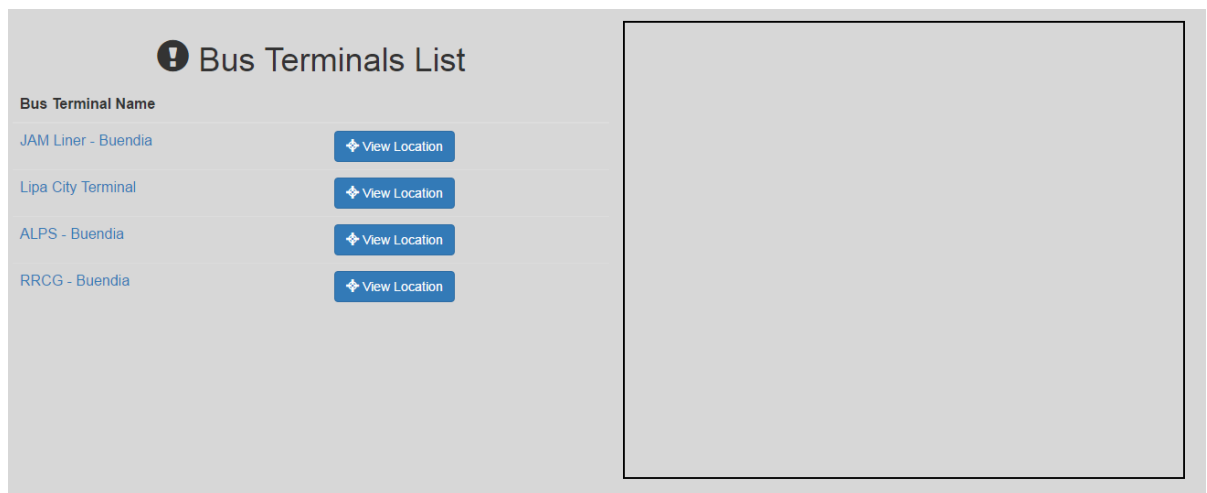


Figure 13. View Terminals for Public Users

In figure 13, public users can view the location of terminals, which will be displayed on the box located at the right side of the page.

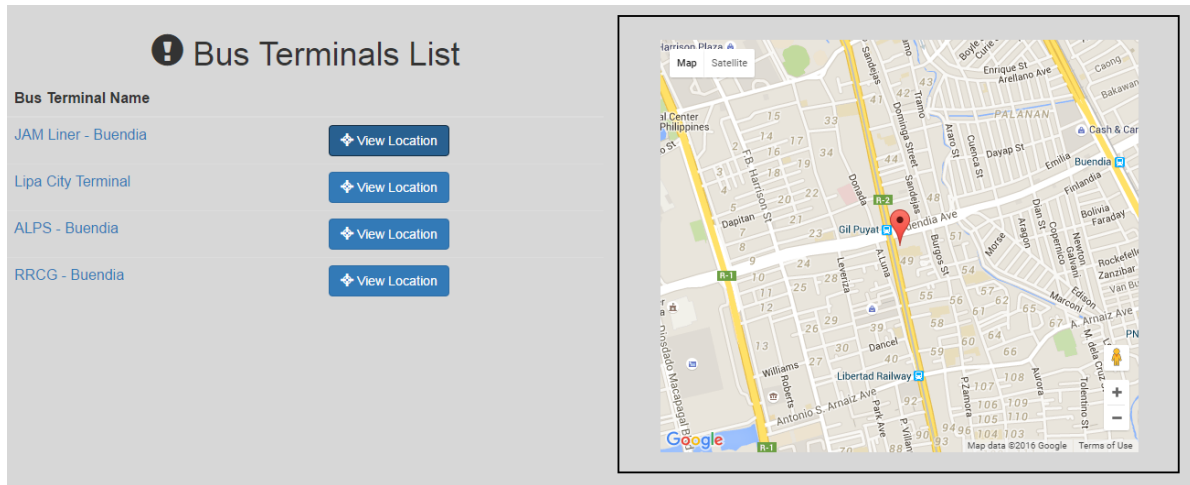


Figure 14. Location of Terminal in Map

Once the user clicked the “View Location” button, the box will now contain a map with a marker which points the location of the terminal chosen.

Trips

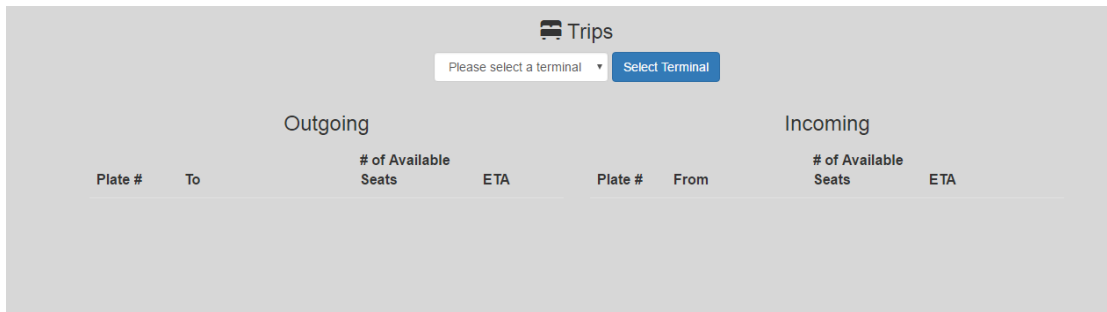


Figure 15. Find Trips page

Figure 15 shows the trips page. The trips page will display current trips travelling around the country. Both the public user and the admin have the same trips page.

Trips

ALPS - Buendia Select Terminal

Outgoing				Incoming			
Plate #	To	# of Available Seats	ETA	Plate #	From	# of Available Seats	ETA
ABC123	Lipa City Terminal	8	01:05 AM				

Figure 16. Displayed Trips

Once the user selects a terminal and clicked the “Select Terminal” button. The page will display all trips that are travelling at the moment, showing the Plate number of the bus, the destination terminal, number of available seats and an estimated time of arrival. It also has a link that will display the route information.

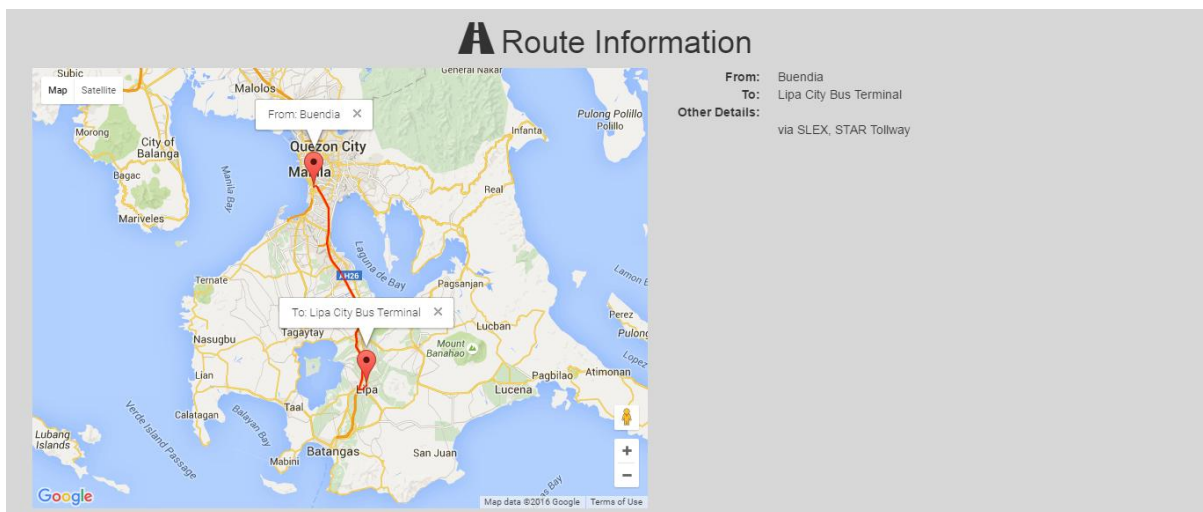


Figure 17. Route Information Display

This page details the route selected, including the source, the destination, some other details about the route, and a illustration of the route on a map.

Complaint Form

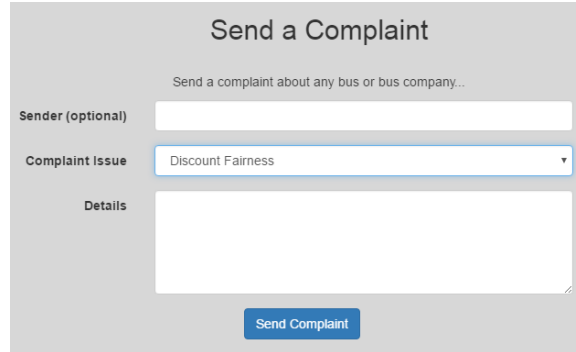


Figure 18. Complaint Form

The user can also send a complaint regarding a particular bus company. Users need to fill up the details about their complaint. The complaint issue field displays different issues most passengers complain about (Discount Fairness, Route Change, etc.). Users may not need to fill out the sender field if they want to.

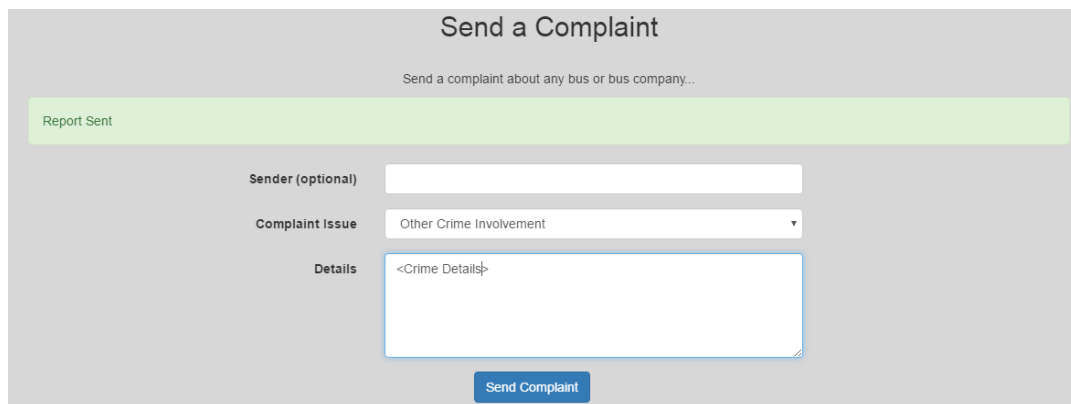
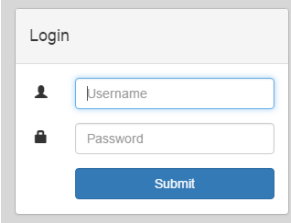


Figure 19. Successful complaint submission

Once the user fill out the necessary details and sent the complaint, the page will display a notice saying the the report has been sent.

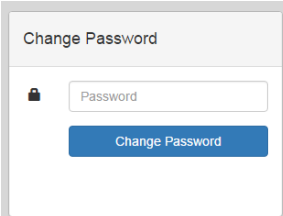
Login Page



The screenshot shows a 'Login' panel with a light gray header. Below the header, there are two input fields: the first is labeled 'Username' with a person icon to its left, and the second is labeled 'Password' with a lock icon to its left. Below these fields is a blue button labeled 'Submit'.

Figure 20. Login Panel

The login page has a panel which asks for a username and a password. Once you fill out the necessary details and your input matches with one of the users registered in the database. You will be redirected to the homepage of either the bus terminal admin or the system admin.



The screenshot shows a 'Change Password' panel with a light gray header. Below the header, there is a single input field labeled 'Password' with a lock icon to its left. Below this field is a blue button labeled 'Change Password'.

Figure 21. Change Password

The starting password for all users is 'default'. Once logged in with the default password, the user will be redirected to the change password page and they can now change their passwords.

B. System Administrator

Home Page

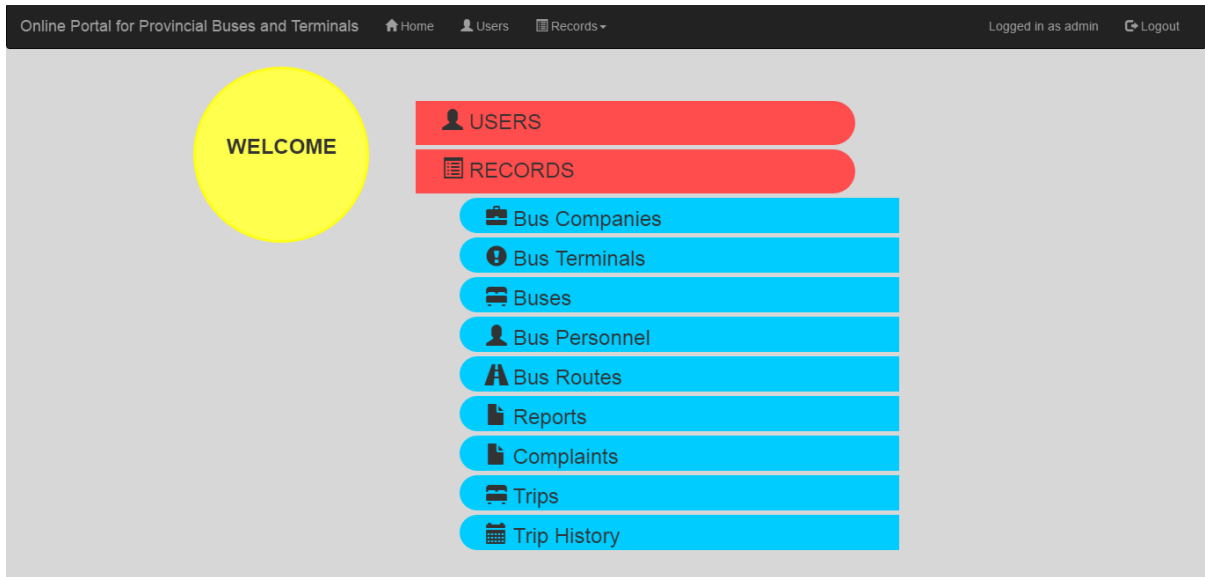


Figure 22. System Admin Homepage

If the user is a system administrator, he/she will be seeing this as their homepage. It has all the links going to the different parts of the system.

Users

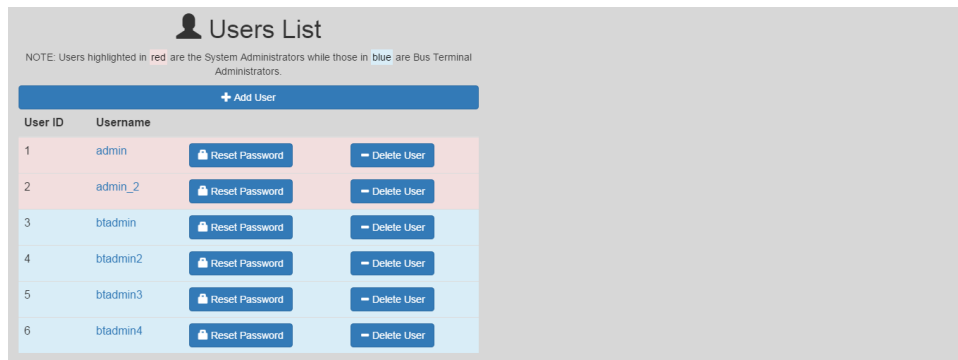


Figure 23. Users Page

In figure 23, the users homepage lists all users registered in the system.

+ Add User

Username

User Type

Add User

Figure 24. Add User Form (System Admin)

Once the user clicked the “Add User” button on the lists part of the page, the right side will now show a form for adding users. The users just require a username and a user type.

+ Add User

Username

User Type

Bus Company

Bus Terminal

Add User

Figure 25. Add User Form (Bus Terminal Admin)

The form changes depending on the user type the admin creates. If they want to create a system admin user, the one shown in Figure 24 will be displayed. If they want to create a bus terminal admin user, the one shown in Figure 25 will be displayed. The only difference is that the bus terminal admin user requires two more input, the bus company and the bus terminal.

+ Add User

User added. Refreshing Page.

Username

User Type

Bus Company

Bus Terminal

Add User

Figure 26. Add User Success

Once the user fill out the necessary details and submit it to the system, the user will be notified that the newly created user has been added to the database, and the page will reload, now with the newly created user on the list.

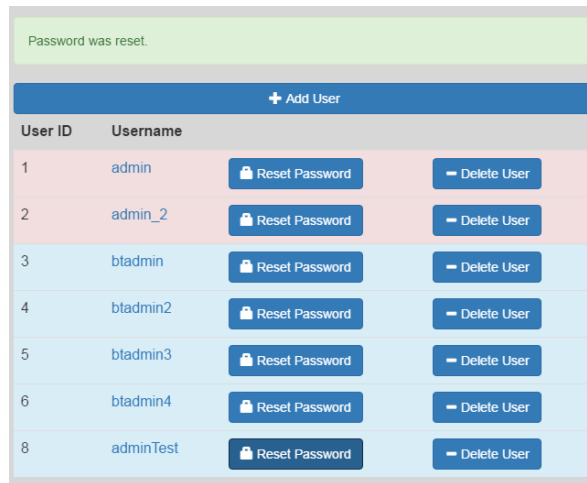


Figure 27. Reset Password

Once a user forgot his/her password, the user can go to the system admin in order to reset their password. The password will then be set back to its default password 'default'.

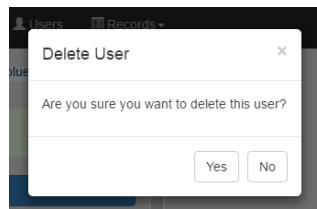


Figure 28. Delete User Confirmation

Once the user deletes a particular account, a confirmation window will appear asking if the user is sure about deleting the account.

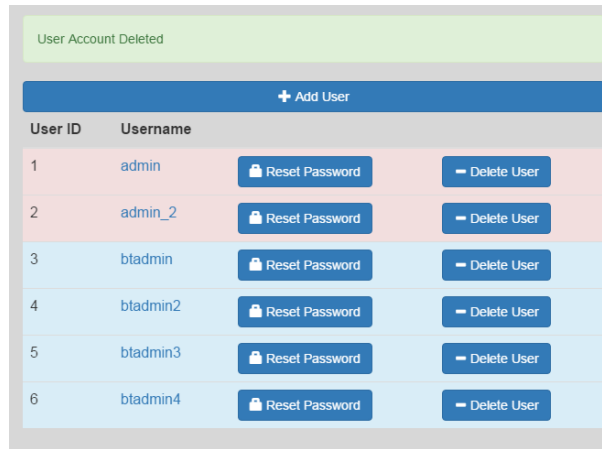


Figure 29. Delete User Success

Once users confirm their decision on deleting the account, the account will be deleted, notifying the user that the user account has been deleted.

Bus Companies

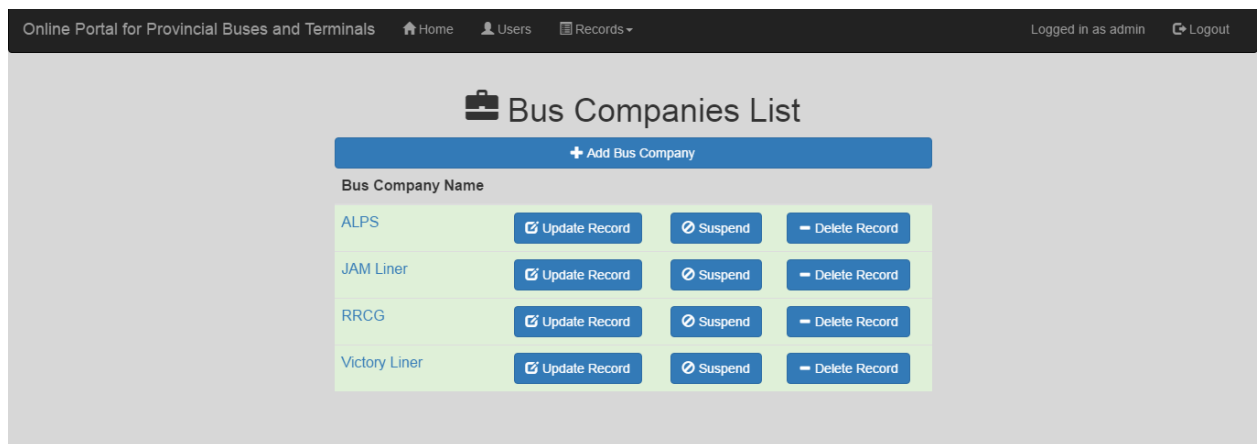


Figure 30. Bus Companies Page

In figure 30, system administrators can add, update and delete bus companies.

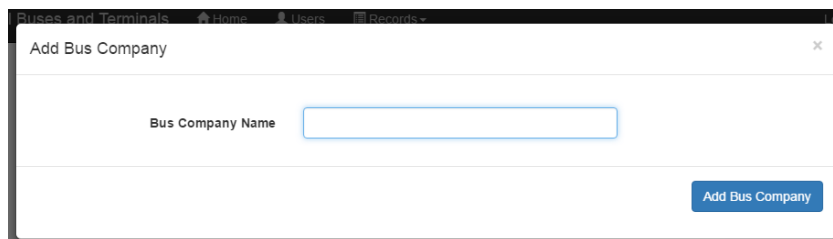


Figure 31. Add Bus Company

When adding a bus company record, a popup window (Figure 31) will be displayed asking the user the necessary information.

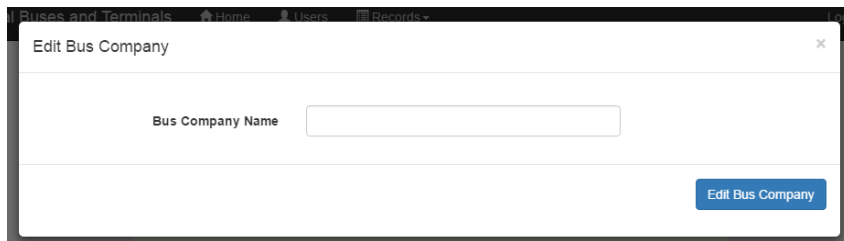


Figure 32. Edit Bus Company

Similar to adding a bus company record, when editing a bus company record, a popup window will be displayed asking the user necessary information (Figure 32).

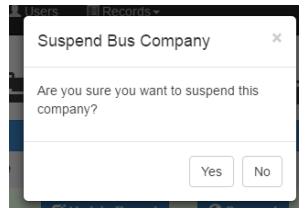


Figure 33. Suspend Bus Company Confirmation



Figure 34. Suspended Bus Company Row

In suspending a bus company, a popup window will appear (Figure 33) asking for a confirmation on the action. Once the user confirms, the bus company will be suspended and the “Suspend” button will be changed to “Reinstate” button.

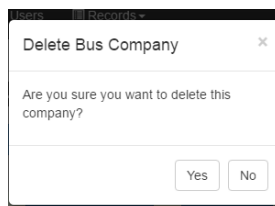


Figure 35. Delete Bus Company Record Confirmation

Similar to the previous action, in deleting a bus company, a popup window will appear (Figure 35) asking for a confirmation on the deletion. Once the user confirms, the record will be deleted and the page will reload.

Bus Terminals

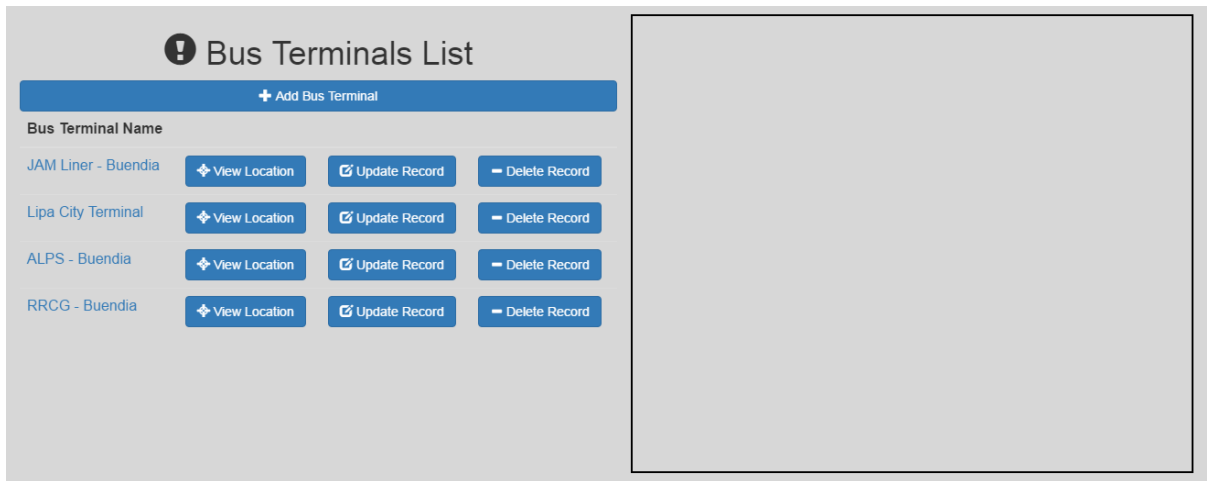


Figure 36. Bus Terminals Page

Figure 36 shows the bus terminals page in the eyes of a system admin. Compared to the ones seen by the public user (Figure 13), more options are added to the page, including addition of bus terminals, update of bus terminals, and deletion of bus terminals.

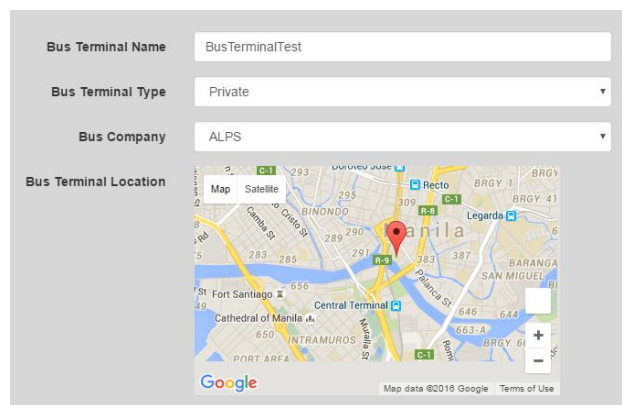


Figure 37. Add and Edit Bus Terminal Form

Figure 37 shows the form format of both add and edit bus terminals. The form requires the bus terminal name, the bus terminal type, bus terminal location, and bus company (If bus terminal type is equal to “Private”).

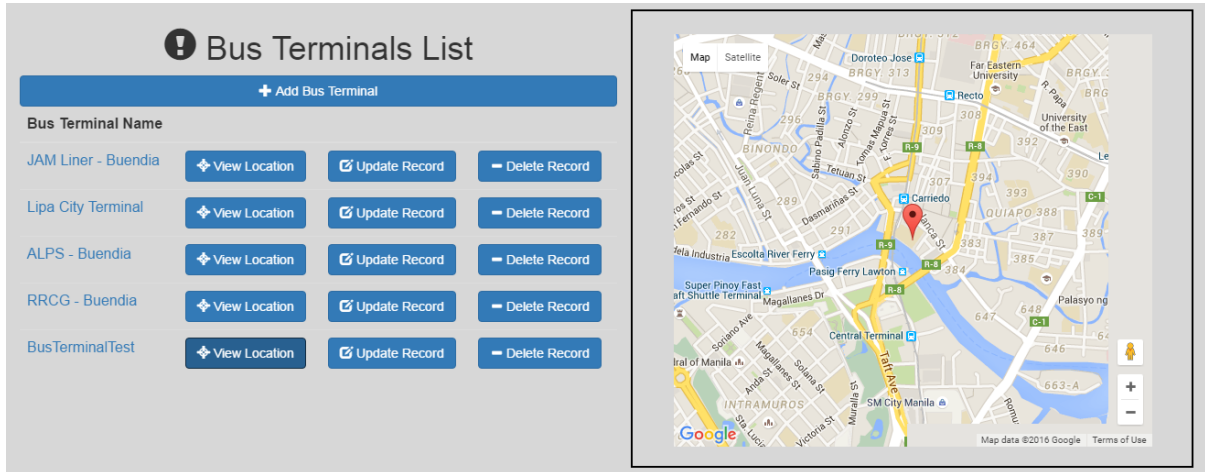


Figure 38. View Location of Bus Terminal (System Admin)

Similar with the public users, the system admin can also view location of bus terminals in the map.

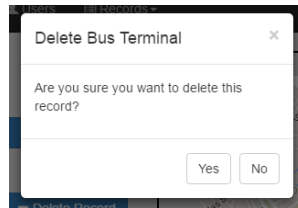


Figure 39. Delete Bus Terminal Confirmation

If the admin wants to delete the bus terminal, a confirmation window will appear. (Figure 39)

Buses

Online Portal for Provincial Buses and Terminals | Home | Users | Records | Logged in as admin | Logout

Bus List

+ Add Bus | + Bus Map

Bus Company Name	Plate #		
ALPS	KTH700	Suspend Bus	Delete Bus
ALPS	ABC123	Suspend Bus	Delete Bus
ALPS	DEF123	Suspend Bus	Delete Bus
ALPS	GOV352	Suspend Bus	Delete Bus
JAM Liner	BMX306	Suspend Bus	Delete Bus
JAM Liner	DEF456	Suspend Bus	Delete Bus
JAM Liner	TKE638	Suspend Bus	Delete Bus

Figure 40. Buses Page (System Admin)

In figure 40, the system admin can view, add, suspend, and delete buses.

+ Add Bus

Plate Number

Bus Company

Add Bus

Figure 41. Add Bus Form

When adding a bus, the admin need only to input the plate number and the bus company who owns the bus.

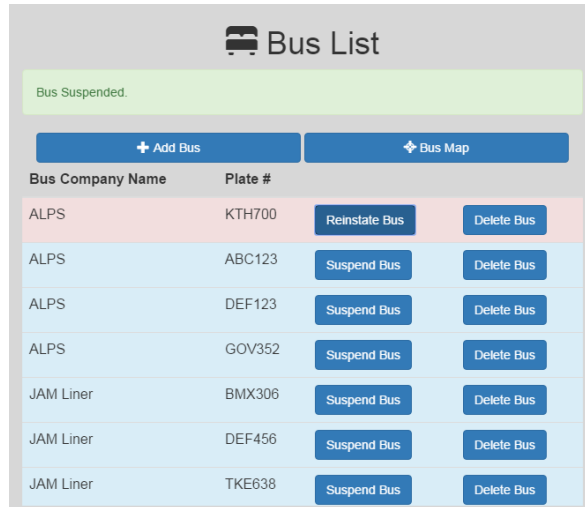


Figure 42. Bus Suspended

The system admin can also suspend and reinstate buses. (Figure 42)

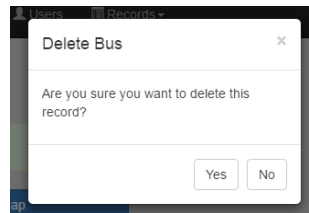


Figure 43. Delete Bus Confirmation

When deleting a bus, a confirmation window will pop up. (Figure 43)

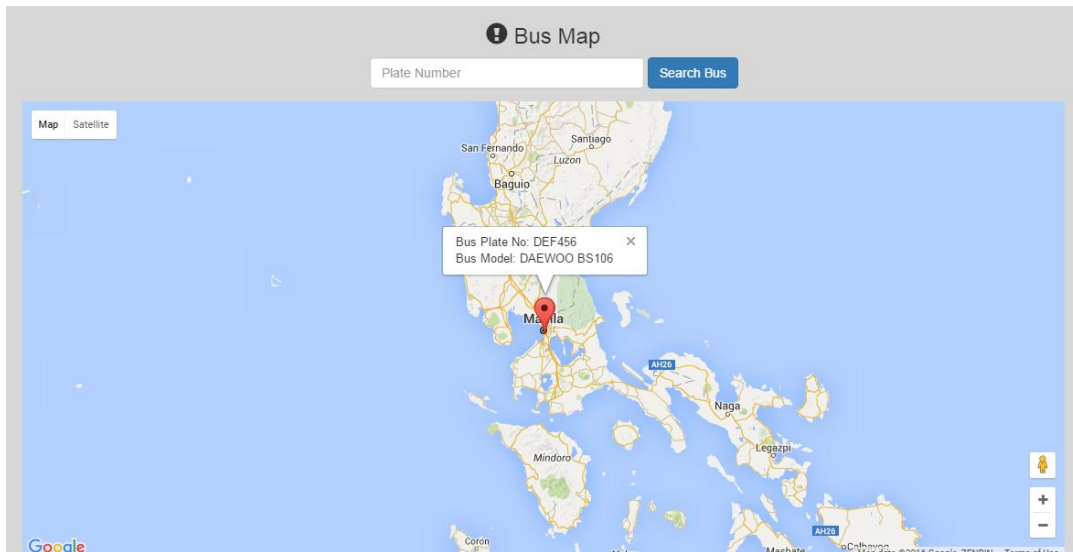


Figure 44. Bus Map

The bus map displays the location of the buses registered in the system. It also displays the model of the bus. Both the system admin and the bus terminal admin can access this. The only difference is that the system admin can see all the buses registered in the system while the bus terminal admin can only see buses owned by the user's bus company.

Bus Personnel

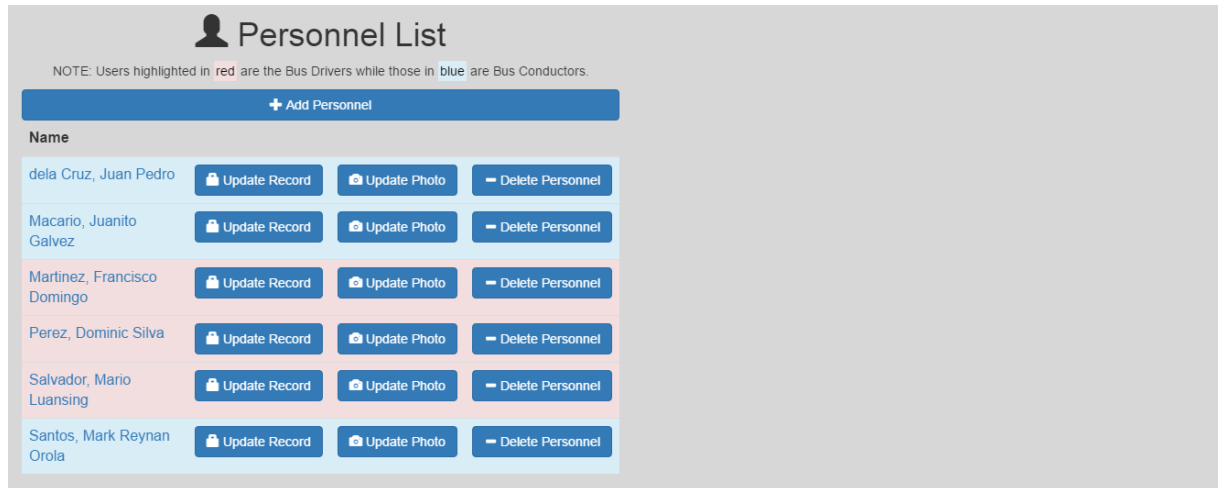


Figure 45. Bus Personnel Page

As shown in Figure 45, the system admin can add, update, and delete personnel information.

The screenshot shows a form titled "+ Add Personnel". The form contains the following fields and controls:

- Name:** Three input fields for Last Name, First Name, and Middle Name.
- SSN:** A single input field.
- Birthday:** An input field with a date mask "mm/dd/yyyy".
- Address:** A single input field.
- Profile Photo:** A "Choose File" button and the text "No file chosen".
- Bus Company:** A dropdown menu with "Bus Company" selected.
- Personnel Type:** A dropdown menu with "Conductor" selected.
- Submit:** A blue "Add Personnel" button.

Figure 46. Add Personnel Form

When adding a bus personnel record, the system admin will be redirected to a page with the add personnel form (Figure 46). The following fields (Name, SSN, Birthday, Address, Profile Photo, Bus Company, Personnel Type, License No. and Expiration Date if Personnel is Driver) are required in creating the record. Once the details are filled out, the personnel will be added.

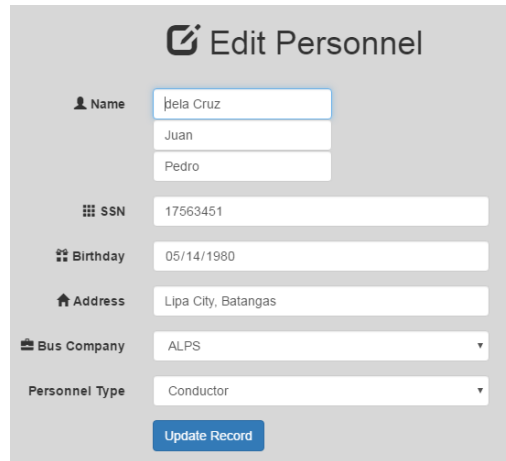


Figure 47. Edit Personnel Form

When editing personnel record, the right side of the bus personnel page will display the edit personnel form (Figure 47).

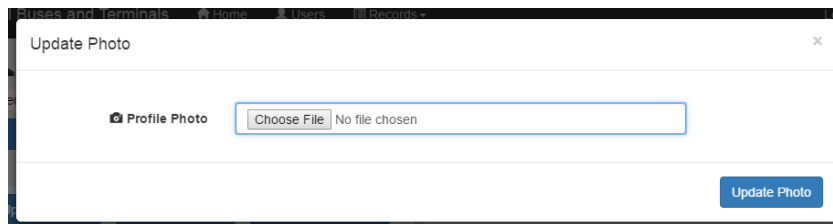


Figure 48. Update Photo

In updating a Personnel's photo, a window will appear asking for the image file of the new profile photo. (Figure 48)

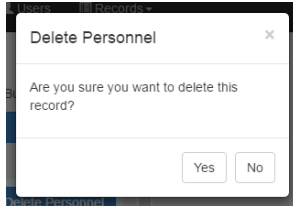


Figure 49. Delete Personnel Confirm Window

When deleting a bus personnel record, a confirmation window will pop up. (Figure 49)

Bus Routes

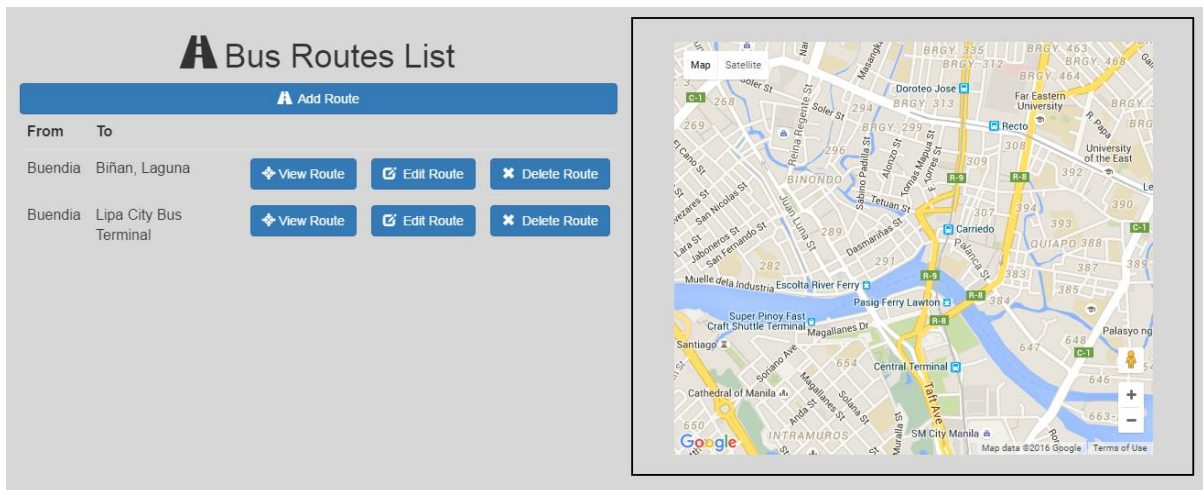


Figure 50. Bus Routes Page

In Figure 50, the system admin can add, view, edit, and delete route records.

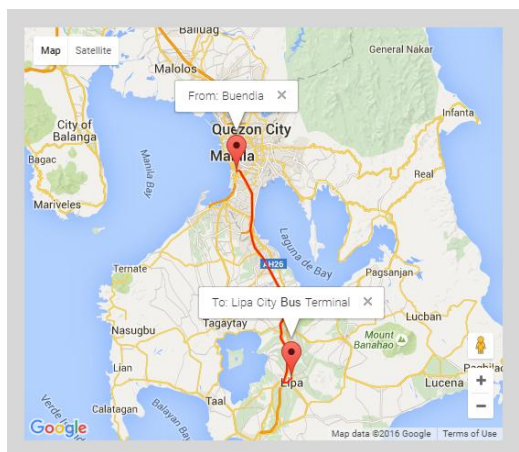


Figure 51. View Bus Route

The system admin can also see the bus route along with the location of the source and destination terminals.

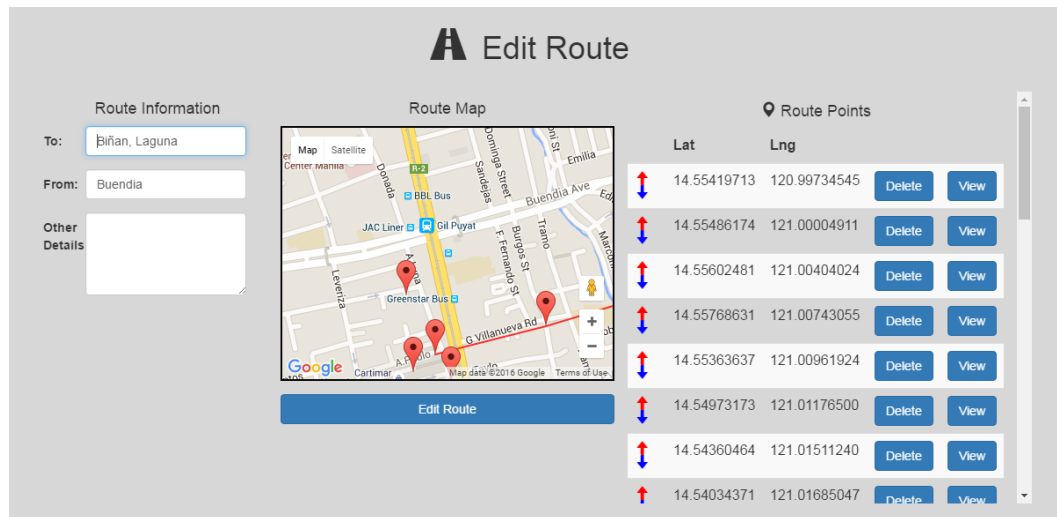


Figure 52. Add Bus and Update Bus Form

Both Add Bus and Update Bus follow the same format. Details are required to be filled up, including the name of the Source and the Destination, the coordinates of some points in the map, and other details regarding the route.

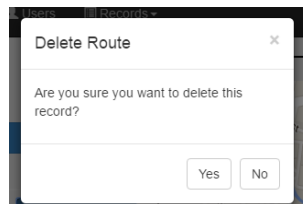


Figure 53. Delete Route Confirm Window

When deleting a route record, a confirmation window will pop up. (Figure 53)

Reports



The screenshot shows a page titled "Reports List" with a sub-header "Reports". Below the header is a table with three columns: "ID", "Report Month", and "Report Year". The table contains three rows of data.

ID	Report Month	Report Year
3	April	2016
2	March	2016
1	February	2016

Figure 54. Reports Page

Figure 54 shows the Reports Page where the system admin can view reports for the previous months. The reports are auto-generated once a new month begins.



The screenshot shows a page titled "Monthly Report" for "Apr 2016". Below the header is a table with four columns: "Route From", "Route To", "Average Travel Time", and "Total No. of Trips". The table contains two rows of data.

Route From	Route To	Average Travel Time	Total No. of Trips
Buendia	Bifian, Laguna	01:00:57	4
Buendia	Lipa City Bus Terminal	02:01:58	5

Figure 55. View Report

Once the admin clicked on a report, the user will be redirected to a view report page, displaying the month, the year, the routes, and their average travel times, and total number of trips for that particular month.

Complaints



The screenshot shows a page titled "Complaints List" with a sub-header "Complaints". Below the header is a table with four columns: "ID", "Sender", "Complaint Issue", and "Complaint Date". The table contains three rows of data.

ID	Sender	Complaint Issue	Complaint Date
2	Anonymous	Other Crime Involvement	2016-05-23 10:43:02
1	Anonymous	Discount Fairness	2016-03-22 09:40:45
5	Anonymous	Other Crime Involvement	2010-01-10 01:01:09

Figure 56. Complaints List

As shown in figure 56, this page lists all complaints sent by the public users. These complaints are ordered from the latest to the oldest.

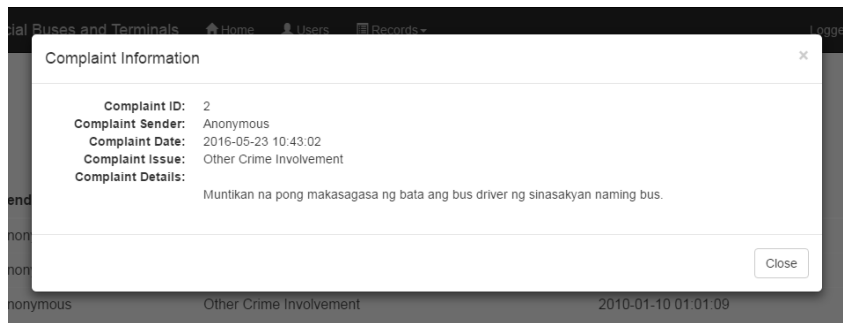


Figure 57. Complaint Information

Once the admin clicked on a complaint, other details will display in a popup window (Figure 57).

Trips

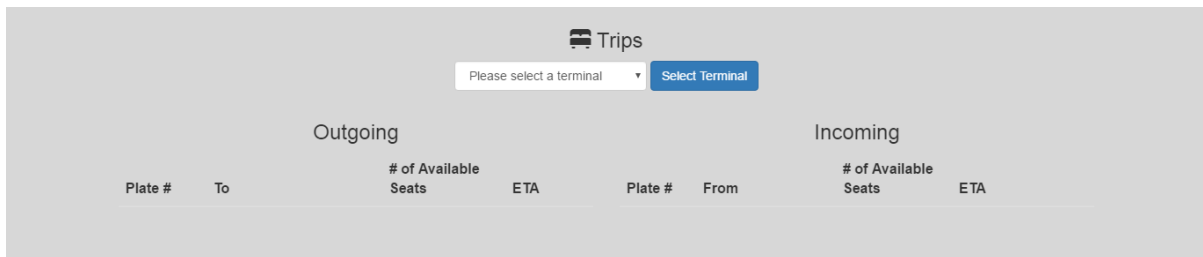


Figure 58. View Trips (System Admin)

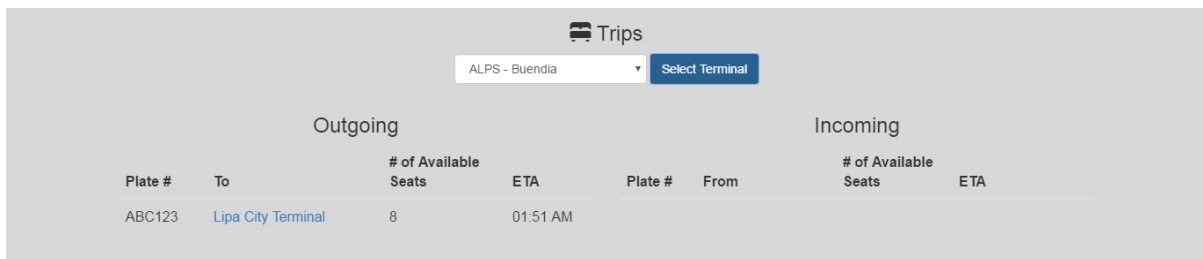


Figure 59. View Trips Display (System Admin)

Viewing trips as a system admin is the same as in the public user. The user selects a terminal, and the page displays trips that are currently travelling. (Figures 58 and 59)

Trip History						
		Plate Number	Search Bus			
Time		Bus Plate No.	Driver	Conductor	Route	
2016-05-26 02:06:00 am	Arrival	ABC123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal	
2016-05-26 01:47:09 am	Arrival	DEF456	PEREZ, Dominic Silva	SANTOS, Mark Reynan Orola	Buendia - Biñan, Laguna	
2016-05-26 12:46:12 am	Departure	DEF456	PEREZ, Dominic Silva	SANTOS, Mark Reynan Orola	Buendia - Biñan, Laguna	
2016-05-26 12:00:00 am	Departure	ABC123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal	
2016-05-20 11:00:10 am	Arrival	DEF123	SALVADOR, Mario Luansing	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal	
2016-05-20 09:59:00 am	Departure	DEF123	SALVADOR, Mario Luansing	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal	
2016-05-01 01:00:00 am	Arrival	ABC123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal	
2016-04-30 11:00:30 pm	Departure	ABC123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal	
2016-04-26 02:47:09 am	Arrival	BMX306	PEREZ, Dominic Silva	SANTOS, Mark Reynan Orola	Buendia - Biñan, Laguna	
2016-04-26 01:46:12 am	Departure	BMX306	PEREZ, Dominic Silva	SANTOS, Mark Reynan Orola	Buendia - Biñan, Laguna	
2016-04-23 06:46:21 am	Arrival	DEF123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal	

Figure 60. View Trip History

The system admin can view the history of all the trips stored in the database, what time the bus departed, what time the bus arrived, who are the drivers and conductors, what is the bus plate number, and what is the route.

C. Bus Terminal Admin

Home Page

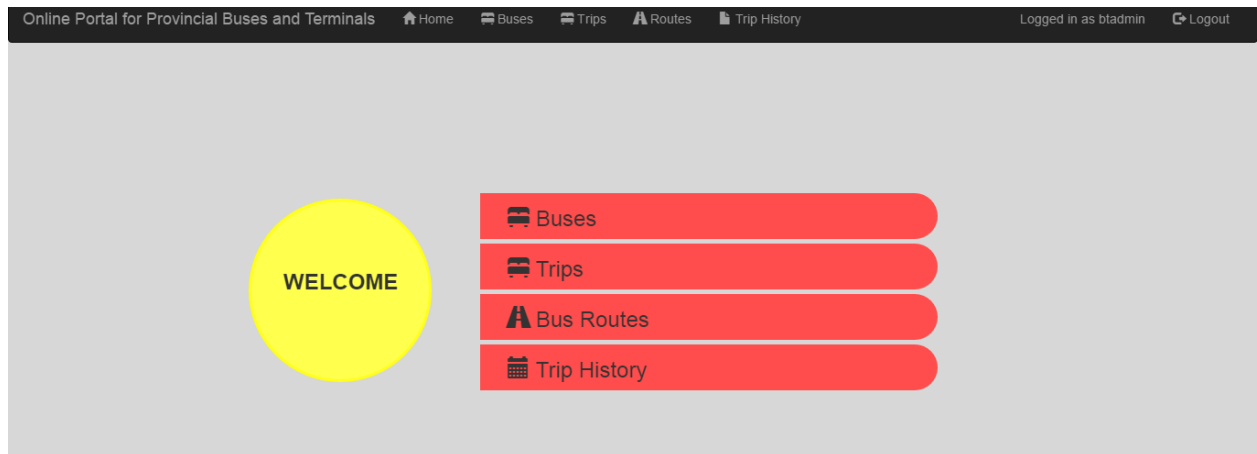


Figure 61. Bus Terminal Admin Homepage

Figure 61 shows the bus terminal admin homepage. It has less access than the system admin but they have access to trips wherein they can add outgoing trips from their bus terminals.

Buses

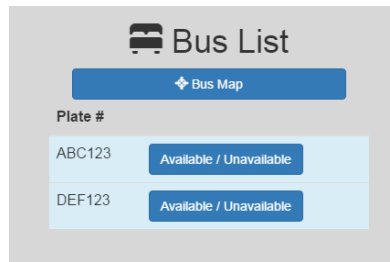


Figure 62. Buses Page (Bus Terminal Admin)

As seen in Figure 62, bus terminal admins can view the buses registered in the system but unlike the system admins, the bus terminal admins can view the buses owned by their bus company. Another difference is that the bus terminal admins have a available/unavailable button which can be used to set the status of buses whether they available for service or not.

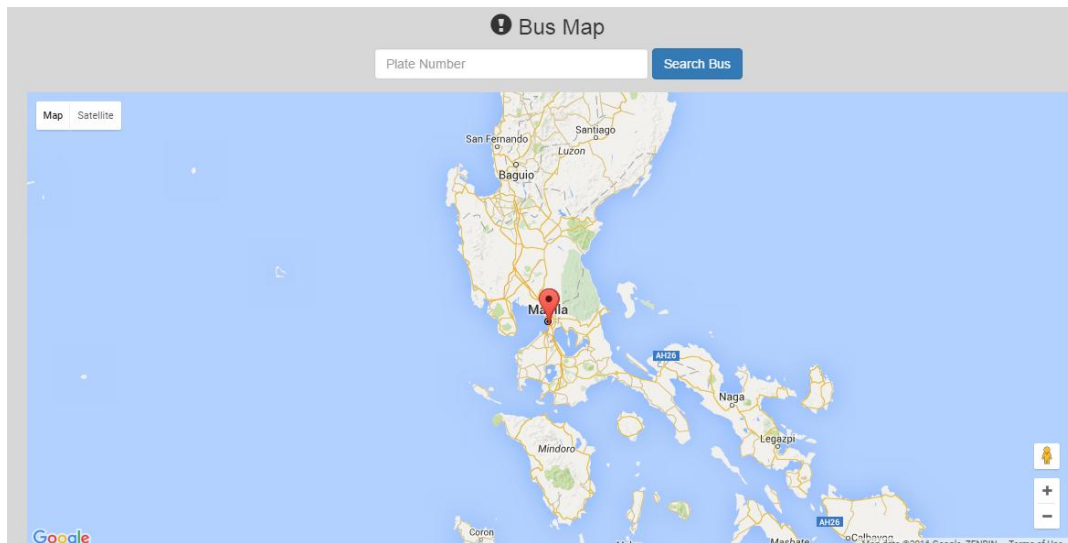


Figure 63. Bus Map (Bus Terminal Admin)

Similar to the system admins, the bus terminal admins can view the location of buses registered in the system, but same with the buses page, the bus terminal admins can only view buses owned by their company.

Trips

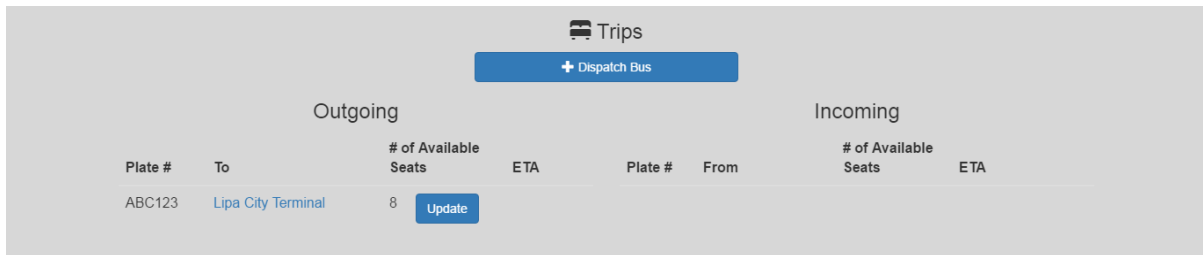


Figure 64. Trips Page (Bus Terminal Admin)

Similar to public users and system admins, the bus terminal admins can view trips currently travelling around the country. The only difference is that instead of selecting from different terminals, the bus terminal admins' trips page is stuck to the terminal they are assigned.

Another difference is that there is a dispatch bus button, which can be used in adding outgoing trips. An update button is also present whenever the bus terminal admin updates the number of available seats.

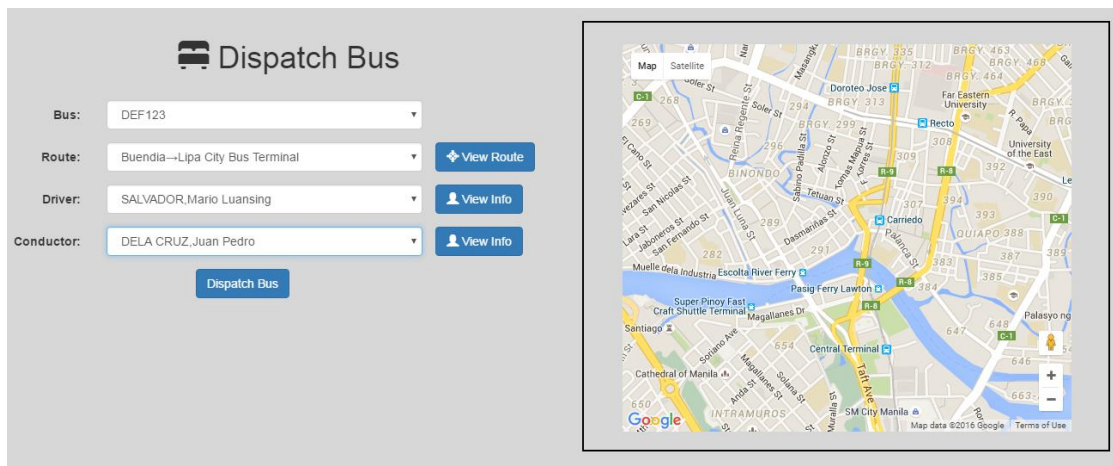


Figure 65. Dispatch Bus Page

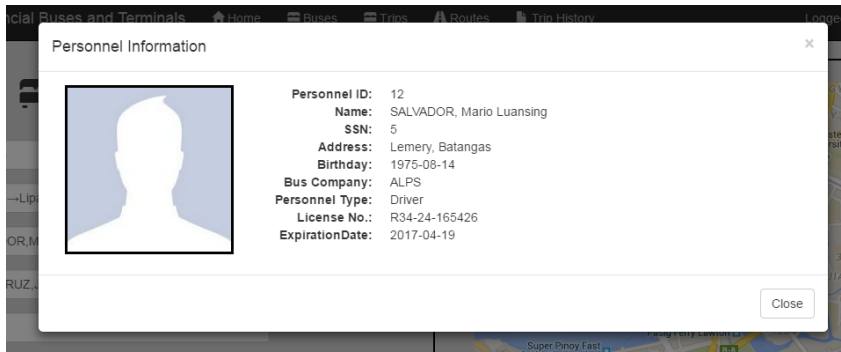


Figure 66. View Personnel Info (Bus Terminal Admin)

In dispatching buses, the bus terminal admin will be redirected to the dispatch bus page. (Figure 65) They need to select the bus, the route (which can be displayed on the map on the right), the driver and the conductor (which both can be viewed similar to Figure 66).

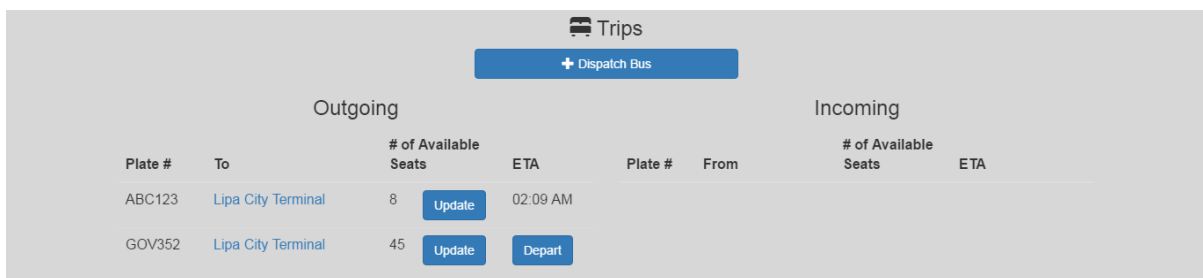


Figure 67. Depart Bus

Once the bus terminal admin added the trip to the system, the trip will start off with a “Depart” button. Once pressed, it signifies that the bus left the terminal.

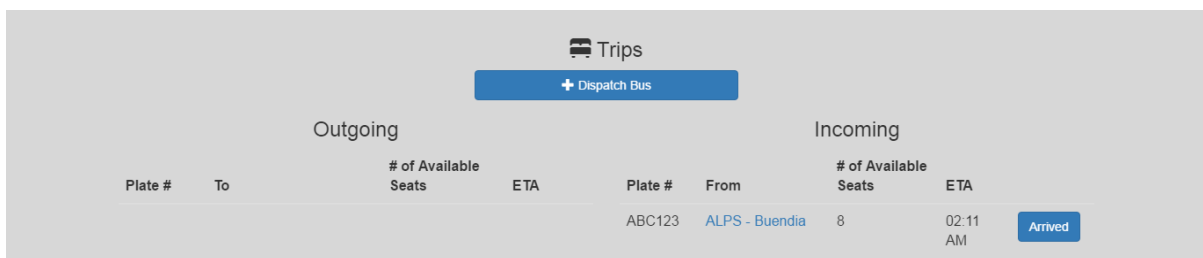


Figure 68. Arrive Bus

Once the bus arrived at the destination terminal, the bus terminal admin of the destination terminal will then press the “Arrived” button, signifying that the bus arrived at the bus terminal.

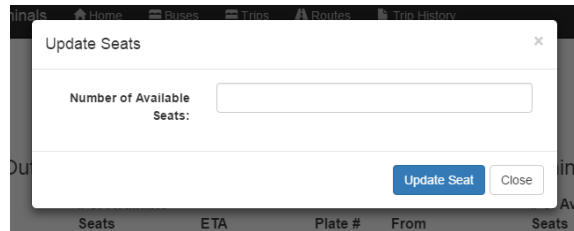


Figure 69. Update Number of Available Seats Form

The bus terminal admin can update the number of seats a certain outgoing trip can accommodate.

Bus Routes

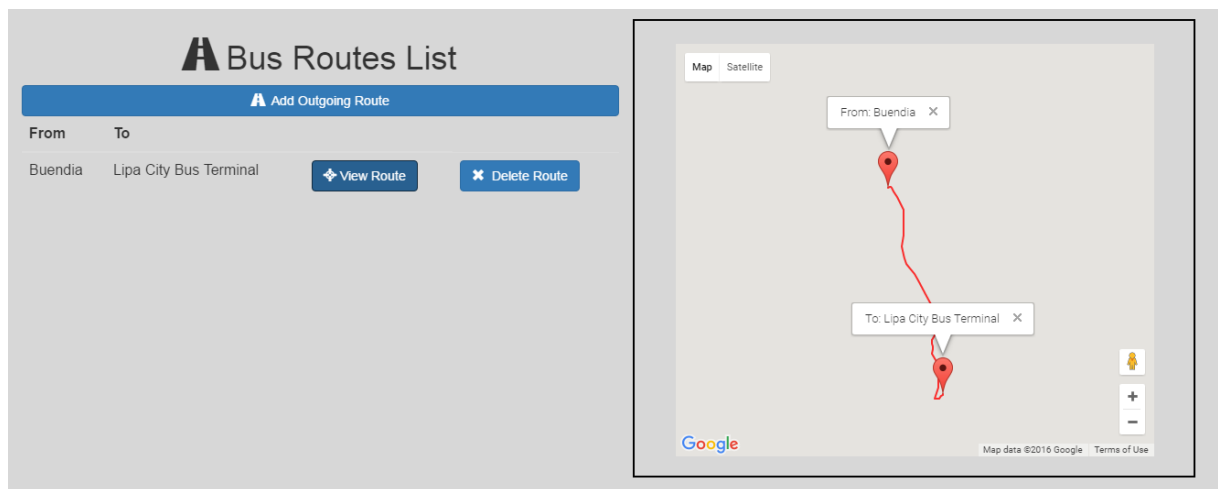


Figure 70. Bus Routes Page (Bus Terminal Admin)

In Figure 70, the bus terminal admin can view outgoing routes they created, which is used in dispatching buses. They can also add, view, and delete these outgoing routes.

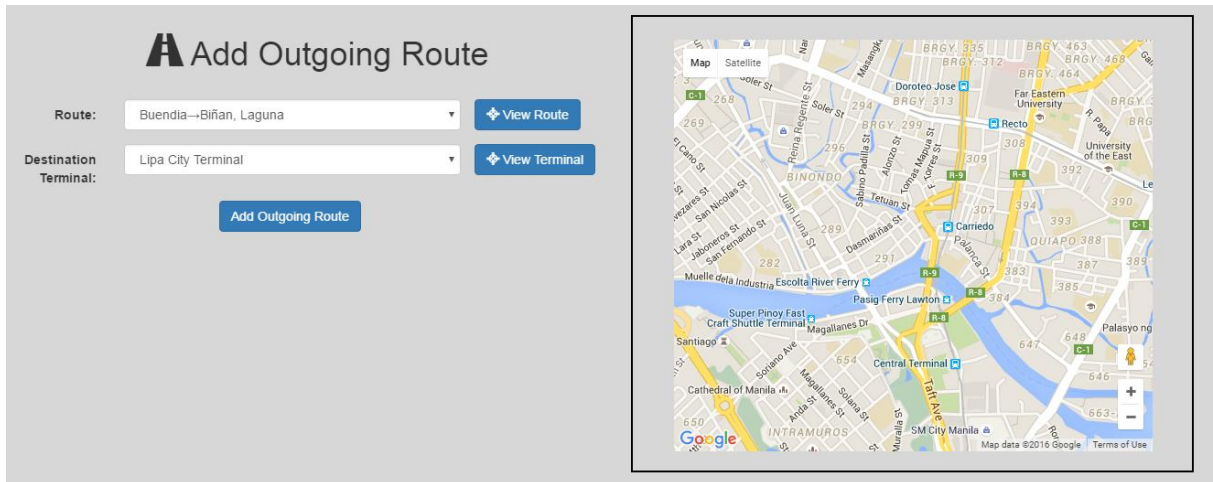


Figure 71. Add Outgoing Route Page

As seen in Figure 71, the only details required in creating outgoing routes is the route and the destination terminal, as the source terminal is already the assigned terminal. Both of them can be viewed on the map on the right.

Trip History

Plate Number [Search Bus](#)

Time		Bus Plate No.	Driver	Conductor	Route
2016-05-26 12:00:00 am	Departure	ABC123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-05-20 11:00:10 am	Arrival	DEF123	SALVADOR, Mario Luansing	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-05-20 09:59:00 am	Departure	DEF123	SALVADOR, Mario Luansing	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-05-01 01:00:00 am	Arrival	ABC123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-04-30 11:00:30 pm	Departure	ABC123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-04-23 06:46:21 am	Arrival	DEF123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-04-23 03:41:32 am	Departure	DEF123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-04-22 11:46:21 am	Arrival	DEF123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-04-22 09:41:32 am	Departure	DEF123	MARTINEZ, Francisco Domingo	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-04-20 11:00:10 am	Arrival	DEF123	SALVADOR, Mario Luansing	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal
2016-04-20 09:59:00 am	Departure	DEF123	SALVADOR, Mario Luansing	DELA CRUZ, Juan Pedro	Buendia - Lipa City Bus Terminal

Figure 72. View Trip History (Bus Terminal Admin)

Similar to the system admins, the bus terminal admins can view the history of the trips. The difference is that the bus terminal admins can only view the history of trips associated with the assigned terminal and bus company.

VII. Discussion

The system is an online tool created as a solution to the issues pertaining to bus management and bus tracking. With the rise of current technologies, an accessible way of managing bus information and bus tracking can be used by both the bus companies, and the public.

The public can now find terminals which currently have available buses that travel to their target destination. They can also see what time will the bus probably arrive at the terminal. They can also send complaints about a particular bus or bus company.

The bus companies can now manage their buses, personnel, terminals, and others. They can also track where currently their buses are. Agencies can view the complaints and reports and use this information to plan.

With CodeIgniter's MVC patterned system, implementing the system was not difficult and much more organized. Additionally, with the help of Google Maps, bus companies can now view the location of the buses, display routes on the map, and predict the estimated time the bus will arrive at a particular terminal.

However, the estimated time of arrival Google Maps delivered could not be an accurate one since there could be factors which were not considered.

Another issue with the system is that the server's clock needs to be synced to the real world clock, as possible errors will happen.

VIII. Conclusion

An online portal is created as a way to solve the issues involving bus management. The Online Portal for Provincial Buses and Terminals (OPPBT) is created to help solve these problems. With it implemented with CodeIgniter, the system is more organized. The system is also implemented with Google Maps API as a way to present data such as bus location, terminal location, and routes. It can also give an estimated time of arrival, though its value could be inaccurate for there could be some factors that were not considered.

IX. Recommendation

With the system possibly operating on the long-term, the server should be able to maintain heavy jobs like getting and computing location data and estimated time of arrival.

Collaborating with other bus companies is a big help in the system for they could provide tools to improve and to make it more reliable and accurate, and secure.

The way the system gets the ETA uses Google Maps API. To further increase its accuracy, using real traffic data provided by MMDA can be considered in its computation. The computation can also include real departure and arrival data provided by other bus companies.

Adding clusters to terminals can be a help for better presentation of the terminal lists as they will be grouped by the location of the terminals.

Adding drop-off points in the routes can give more information for the passengers, giving them more knowledge on the route they're viewing.

In the creation of the route, there is a list of latitudes and longitudes on a table, instead of those figures displayed on the screen, street names or other landmarks associated with the location can be a better way to provide more information to the public users.

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Sa mga kaibigan ko sa Block 12, salamat ng marami sa inyo!!!

2-1? (Dado, Jaimee, Joyce, Larisse, Mich, Ron): Salamat sa mga masasayang memories. Kahit pabebe ako at di ako madalas nakakasama sa mga karaoke o kakain lang sa KFC, andyan pa rin kayo. Mamimiss ko yung mga pagpapalano kung saan tayo kakain tapos mapupunta lang din tayo sa McDo. Hahahahaha

Sa mga kasama ko nung defense week ko (mostly mga kasabay din mag-defend), Mouri, Lei, Sherwin, Renz, Kat. Dahil sa inyo, at least may karamay ako nung nagisa ako ng todo sa defense.

Maraming salamat din kay Kath Abellera. Kung wala ka, di ko na alam kung ano mga isusulat , anong format, at anu-ano pa regarding sa SP.

Salamat sa pamilya ko na andyan nung ginagawa ko yung SP. Pasensya na rin po kung ngayon lang din natapos. Mamimiss ko yung mga pag-uwi ni Maui, magtatanong

“Kuya, may nagawa ka ba sa SP mo?” o magsasabi na “Kuya, tapusin mo na iyan, kakaawa na ang mga inay eh.” . Salamat din po sa pagiging mahinahon sa akin. Mahal ko po kayo.

Salamat din sa pinsan kong si Michelle Andal. Nagchicheer din saakin para tapusin tong SP na to.

Last but not the least, nagpapasalamat na rin ako kay God. Himala na lang yung bigla biglang defense. Salamat din sa mga iba pang mga posibleng himala sa akin (Pag-pasa sa isang subject na feeling ko babagsak ako...) Maraming salamat po.

APPENDIX

Source Code

```
header_btAdmin.php
<head>
  <style>
    .dropdown-submenu {
      position: relative;
    }

    .dropdown-submenu>.dropdown-menu {
      top: 0;
      left: 100%;
      margin-top: -6px;
      margin-left: -1px;
      -webkit-border-radius: 0 6px 6px 6px;
      -moz-border-radius: 0 6px 6px;
      border-radius: 0 6px 6px 6px;
    }

    .dropdown-submenu: hover>.dropdown-menu {
      display: block;
    }

    .dropdown-submenu>a: after {
      display: block;
      content: " ";
      float: right;
      width: 0;
      height: 0;
      border-color: transparent;
      border-style: solid;
      border-width: 5px 0 5px 5px;
      border-left-color: #ccc;
      margin-top: 5px;
      margin-right: -10px;
    }

    .dropdown-submenu: hover>a: after {
      border-left-color: #fff;
    }

    .dropdown-submenu.pull-left {
      float: none;
    }

    .dropdown-submenu.pull-left>.dropdown-
menu {
  left: -100%;
  margin-left: 10px;
  -webkit-border-radius: 6px 0 6px 6px;
  -moz-border-radius: 6px 0 6px 6px;
  border-radius: 6px 0 6px 6px;
}
  </style>
</head>

<!-- NAVIGATION BAR -->
<nav class = "navbar navbar-inverse">
  <div class = "container-fluid">
    <div class = "navbar-header">
      <button type="button" class="navbar-
toggle" data-toggle="collapse" data-
target="#myNavbar">
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class= "navbar-brand" href="<?php
echo site_url('home');?>">Online Portal for
Provincial Buses and Terminals</a>
    </div>
    <div class = "collapse navbar-collapse"
id="myNavbar">
      <ul class = "nav navbar-nav">
        <li><a href = "<?php echo
site_url('home');?>"><span class="glyphicon
glyphicon-home"></span> Home</a></li>
        <li><a href = "<?php echo
site_url('buses');?>"><span class="glyphicon
glyphicon-bed"></span> Buses</a></li>
        <li><a href = "<?php echo
site_url('trips');?>"><span class="glyphicon
glyphicon-bed"></span> Trips</a></li>
        <li><a href = "<?php echo
site_url('busroutes');?>"><span
class="glyphicon glyphicon-road"></span>
Routes</a></li>
        <li><a href = "<?php echo
site_url('trips/viewHistory');?>"><span
class="glyphicon glyphicon-file"></span> Trip
History</a></li>
      </ul>
      <ul class = "nav navbar-nav navbar-
right">
        <li><p class = "navbar-
text">Logged in as <?php echo
$username;?></p></li>
        <li><a href = "<?php echo
site_url('home/logout');?>"><span
class="glyphicon glyphicon-log-out"></span>
Logout</a></li>
      </ul>
    </div>
  </div>
</nav>

header_default.php
<!-- NAVIGATION BAR -->
<nav class = "navbar navbar-inverse">
  <div class = "container-fluid">
    <div class = "navbar-header">
      <button type="button" class="navbar-
toggle" data-toggle="collapse" data-
target="#myNavbar">
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class= "navbar-brand" href="<?php
echo site_url('home');?>">Online Portal for
Provincial Buses and Terminals</a>
    </div>
    <div class = "collapse navbar-collapse"
id="myNavbar">
      <ul class = "nav navbar-nav">
```

```

        <li><a href = "<?php echo
site_url('home');?>"><span class="glyphicon
glyphicon-home"></span> Home</a></li>
        <li><a href = "<?php echo
site_url('busterminals');?>"><span
class="glyphicon glyphicon-exclamation-
sign"></span> Bus Terminals</a></li>
        <li><a href = "<?php echo
site_url('trips');?>"><span class="glyphicon
glyphicon-search"></span> Look for
Buses</a></li>
        <li><a href = "<?php echo
site_url('home/complaint');?>"><span
class="glyphicon glyphicon-flag"></span>
Complaint</a></li>
        <li><a href = "<?php echo
site_url('home/about');?>"><span
class="glyphicon glyphicon-question-
sign"></span> About OPPBT</a></li>
    </ul>
    <ul class = "nav navbar-nav navbar-
right">
        <li><a href = "<?php echo
site_url('login');?>"><span class="glyphicon
glyphicon-log-in"></span> Login</a></li>
    </ul>
</div>
</div>
</nav>

```

header_sAdmin.php

```

<head>
    <style>
        .dropdown-submenu {
            position: relative;
        }
        .dropdown-submenu>.dropdown-menu {
            top: 0;
            left: 100%;
            margin-top: -6px;
            margin-left: -1px;
            -webkit-border-radius: 0 6px 6px 6px;
            -moz-border-radius: 0 6px 6px;
            border-radius: 0 6px 6px 6px;
        }
        .dropdown-submenu:hover>.dropdown-menu {
            display: block;
        }
        .dropdown-submenu>a:after {
            display: block;
            content: " ";
            float: right;
            width: 0;
            height: 0;
            border-color: transparent;
            border-style: solid;
            border-width: 5px 0 5px 5px;
            border-left-color: #ccc;
            margin-top: 5px;
            margin-right: -10px;
        }
        .dropdown-submenu:hover>a:after {
            border-left-color: #fff;
        }
    </style>

```

```

        .dropdown-submenu.pull-left {
            float: none;
        }
        .dropdown-submenu.pull-left>.dropdown-
menu {
            left: -100%;
            margin-left: 10px;
            -webkit-border-radius: 6px 0 6px 6px;
            -moz-border-radius: 6px 0 6px 6px;
            border-radius: 6px 0 6px 6px;
        }
    </style>
</head>

```

```

<!-- NAVIGATION BAR -->
<nav class = "navbar navbar-inverse">
    <div class = "container-fluid">
        <div class = "navbar-header">
            <button type="button" class="navbar-
toggle" data-toggle="collapse" data-
target="#myNavbar">
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
            </button>
            <a class= "navbar-brand" href="<?php
echo site_url('home');?>">Online Portal for
Provincial Buses and Terminals</a>
        </div>
        <div class = "collapse navbar-collapse"
id="myNavbar">
            <ul class = "nav navbar-nav">
                <li><a href = "<?php echo
site_url('home');?>"><span class="glyphicon
glyphicon-home"></span> Home</a></li>
                <li class = "dropdown">
                    <a href = "<?php echo
site_url('users');?>"><span class="glyphicon
glyphicon-user"></span> Users</a>
                    </li>
                <li class = "dropdown">
                    <a class = "dropdown-toggle"
data-toggle = "dropdown" href = "#"><span
class="glyphicon glyphicon-list-alt"></span>
Records<span class = "caret"></span></a>
                    <ul class = "dropdown-menu">
                        <li><a href = "<?php echo
site_url('buscompanies');?>"><span
class="glyphicon glyphicon-briefcase"></span>
Bus Companies</a></li>
                        <li><a href = "<?php echo
site_url('busterminals');?>"><span
class="glyphicon glyphicon-exclamation-
sign"></span> Bus Terminals</a></li>
                        <li><a href = "<?php echo
site_url('buses');?>"><span class="glyphicon
glyphicon-bed"></span> Buses</a></li>
                        <li><a href = "<?php echo
site_url('buspersonnels');?>"><span
class="glyphicon glyphicon-user"></span> Bus
Personnel</a></li>
                        <li><a href = "<?php echo
site_url('busroutes');?>"><span
class="glyphicon glyphicon-road"></span> Bus
Routes</a></li>
                        <li><a href = "<?php echo
site_url('reports/viewAllReports');?>"><span

```



```

function initialize() {
    var mapProp = {
        center: myCenter,
        zoom: 15,
        mapTypeId:
google.maps.MapTypeId.ROADMAP
    };
    map = new
google.maps.Map(document.getElementById("map"),
mapProp);
}

google.maps.event.addListener(window,
'load', initialize);
</script>

<meta charset = "utf-8">
<meta name = "viewport" content = "width
= device-width, initial-scale = 1">

<style>
    body {
        background-color: #D7D7D7;
    }

    #list {
        height: 85%;
        overflow: auto;
    }
</style>

<title>Add Outgoing Route</title>
</head>
<body>

    <div class = "container col-sm-6" id =
"routeForm">
        <h1 class = "text-center"><span class
= "glyphicon glyphicon-road"></span> Add
Outgoing Route</h1>
        <form class = 'form-horizontal' role
= 'form' onSubmit = "addRoute(); return
false;">
            <div id = "n"></div>
            <br/>
            <div class = "form-group">
                <input type = "hidden"
name="endPointA" id="endPointA" value = "<?php
echo $bTerminalID;?>" />
                <label for = "rFrom" class =
"control-label col-sm-2">Route:</label>
                <div class = "col-sm-7">
                    <select class = "form-
control" id = "routeIDs">
                        <?php foreach($busRoutes
as $b):?>
                            <option value =
"<?php echo $b -> routeID?>"><?php echo $b ->
routeFrom;?>&nbsp;&nbsp;&lt;?php echo $b ->
routeTo;?></option>
                        <?php endforeach;?>
                    </select>
                </div>
                <a href = "#" class = "btn
btn-primary" onClick = "viewRoute();"><span
class = "glyphicon glyphicon-screenshot"></span> View Route</a>
            </div>
            <div class = "form-group">
                <label for = "rFrom" class =
"control-label col-sm-2">Destination
Terminal:</label>
                <div class = "col-sm-7">
                    <select class = "form-
control" id = "terminalIDs">
                        <?php foreach($endPoints
as $e):?>
                            <?php if($e ->
stopPointID != $bTerminalID):?>
                                <option value =
"<?php echo $e -> stopPointID?>"><?php echo $e
-> stopPointName;?></option>
                            <?php endif;?>
                        <?php endforeach;?>
                    </select>
                </div>
                <a href = "#" class = "btn
btn-primary" onClick = "viewTerminal();"><span
class = "glyphicon glyphicon-screenshot"></span> View Terminal</a>
            </div>
            <input type = "submit" class =
"col-sm-offset-4 btn btn-primary" value = "Add
Outgoing Route"/>
        </form>
    </div>

    <div class = "container col-sm-6" style
= "border:2px solid black;width: 45%; height:
500px; position: relative;">
        <div id = "map" style = "width: 90%;
height: 450px; position: relative; top: 25px;
left: 30px;">
        </div>
    </div>

    <script>
        var markers = [];
        var m1, m2, rLine, bound, i1, i2;

        function addRoute() {
            var eA =
document.getElementById("endPointA").value;
            var eB =
document.getElementById("terminalIDs").value;
            var rID =
document.getElementById("routeIDs").value;
            var param =
"endPA="+eA+"&endPB="+eB+"&rID="+rID;

            var xmlhttp;
            var routeInfo;

            if (window.XMLHttpRequest) {
                xmlhttp=new XMLHttpRequest();
            }
            else {
                xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
            }

            xmlhttp.onreadystatechange=function() {
                if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                    if(xmlhttp.responseText ==
"Route Added") {

```

```

        document.getElementById("n").className = "alert alert-success";

        document.getElementById("n").innerHTML = xmlhttp.responseText;
    }
    else {

        document.getElementById("n").className = "alert alert-danger";

        document.getElementById("n").innerHTML = xmlhttp.responseText;
    }
}

xmlhttp.open("POST", "../busroutes/add", true);

xmlhttp.setRequestHeader("ajaxOnly", "yes");

xmlhttp.setRequestHeader("Content-type", "application/x-www-form-urlencoded");
xmlhttp.send(param);
}

function viewTerminal() {
    var terminalID = document.getElementById("terminalIDs").value;
    if(marker != null) {
        marker.setMap(null);
        marker.setAnimation(null);
        marker = null;
    }
    markers = [];
    if(i1 != null && i2 != null && m1 != null && m2 != null && rLine != null && bound != null) {
        m1.setMap(null);
        m2.setMap(null);
        i1.setMap(null);
        i2.setMap(null);
        rLine.setMap(null);
        rline = null;
        m1 = null;
        m2 = null;
        i1 = null;
        i2 = null;
    }
    var terminalPosition = new google.maps.LatLng(terminalPositions["ep"+terminalID]["lat"], terminalPositions["ep"+terminalID]["lng"]);
    marker = new google.maps.Marker({
        position: terminalPosition,
        map: map
    });

    marker.setAnimation(google.maps.Animation.BOUNCE);
    map.panTo(terminalPosition);
}

function viewRoute() {
    markers = [];
    if(marker != null) {
        marker.setMap(null);
        marker.setAnimation(null);
        marker = null;
    }
    if(i1 != null && i2 != null && m1 != null && m2 != null && rLine != null && bound != null) {
        m1.setMap(null);
        m2.setMap(null);
        i1.setMap(null);
        i2.setMap(null);
        rLine.setMap(null);
        rLine = null;
        m1 = null;
        m2 = null;
        i1 = null;
        i2 = null;
    }
}

var xmlhttp;
var routeInfo;

if (window.XMLHttpRequest) {
    xmlhttp=new XMLHttpRequest();
}
else {
    xmlhttp=new ActiveXObject("Microsoft.XMLHTTP");
}

xmlhttp.onreadystatechange=function() {
    if (xmlhttp.readyState==4 && xmlhttp.status==200) {
        routeInfo = JSON.parse(xmlhttp.responseText);
        var routePoints = routeInfo['routePoints'];
        bound = new google.maps.LatLngBounds();
        for(var i = 0; i < routePoints.length; i++) {
            markers.push(new google.maps.LatLng(routePoints[i]['lat'], routePoints[i]['lng']));
            bound.extend(markers[markers.length-1]);
        }
        m1 = new google.maps.Marker({
            position: markers[0],
            map: map
        });
        m2 = new google.maps.Marker({
            position: markers[markers.length-1],
            map: map
        });
        i1 = new google.maps.InfoWindow({
            content: 'From: ' + routeInfo['mainInfo']['rFrom']
        });
        i2 = new google.maps.InfoWindow({
            content: 'To: ' + routeInfo['mainInfo']['rTo']
        });
    }
}

```

```

        i1.open(map, m1);
        i2.open(map, m2);
        rLine = new
google.maps.Polyline({
    path: markers,
    geodesic: true,
    strokeColor: '#FF0000',
    strokeOpacity: 0.80,
    strokeWeight: 2,
    map: map
});
map.fitBounds(bounds);
}
}

var id =
document.getElementById("routeIDs").value;
var parameters = "rID="+id;
xmlhttp.open("POST", "viewMap",
true);

xmlhttp.setRequestHeader("ajaxOnly", "yes");

xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
xmlhttp.send(parameters);
}
</script>
</body>
</html>
addPersonnel.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>

        <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <title>Add Personnel</title>

        <style>
            body {
                background-color: #D7D7D7;
            }
        </style>
    </head>
    <body>
        <div class = "container">
            <?php echo validation_errors();?>
            <?php echo
form_open_multipart('buspersonnels/add', array('

```

```

class' => 'form-horizontal', 'role' =>
'form')));?>
        <h1 class = "text-center"><span class
= "glyphicon glyphicon-plus"></span> Add
Personnel</h1>
        <?php if(isset($error)) : ?>
            <div id = "n" class = "alert
alert-danger">
                <?php echo $error;?>
            </div>
        <?php endif;?>
        <br/>
        <div class = "form-group form-
inline">
            <label for = "Name" class =
"control-label col-sm-3"><span class =
"glyphicon glyphicon-user"></span> Name</label>
            <div class = "col-sm-7">
                <input type = "text" id =
"lName" name = "lName" class = "form-control"
placeholder = "Last Name" required autofocus>
                <input type = "text" id =
"fName" name = "fName" class = "form-control"
placeholder = "First Name" required autofocus>
                <input type = "text" id =
"mName" name = "mName" class = "form-control"
placeholder = "Middle Name" required autofocus>
            </div>
        </div>
        <div class = "form-group form-
inline">
            <label for = "ssn" class =
"control-label col-sm-3"><span class =
"glyphicon glyphicon-th"></span> SSN</label>
            <div class = "col-sm-2">
                <input type = "number" id =
"ssn" name = "ssn" class = "form-control"
required autofocus>
            </div>
            <label for = "bDay" class =
"control-label col-sm-2"><span class =
"glyphicon glyphicon-gift"></span>
Birthday</label>
            <div class = "col-sm-2">
                <input type = "date" id =
"bDay" name = "bDay" class = "form-control"
required autofocus>
            </div>
        </div>
        <div class = "form-group">
            <label for = "address" class =
"control-label col-sm-3"><span class =
"glyphicon glyphicon-home"></span>
Address</label>
            <div class = "col-sm-7">
                <input type = "text" id =
"address" name = "address" class = "form-
control" required autofocus>
            </div>
        </div>
        <div class = "form-group">
            <label for = "userfile" class
= "control-label col-sm-3"><span class =
"glyphicon glyphicon-camera"></span> Profile
Photo</label>
            <div class = "col-sm-7">

```

```

        <input type = "file" id =
"userfile" name = "userfile" class = "form-
control" required autofocus>
    </div>
</div>
<div class = "form-group">
    <label for = "bCompany"
class = "control-label col-sm-3"><span class =
"glyphicon glyphicon-briefcase"></span> Bus
Company</label>
        <div class = "col-sm-7">
            <select id = "bCompany"
name = "bCompany" class = "form-control"
required>
                <option disabled
selected>Bus Company</option>
                <?php
foreach($busCompanies as $b): ?>
                    <option value =
"<?php echo $b -> busCompanyID;?>"><?php echo
$b -> busCompanyName;?></option>
                <?php endforeach;?>
            </select>
        </div>
</div>
<div class = "form-group">
    <label for = "pType" class
= "control-label col-sm-3">Personnel
Type</label>
        <div class = "col-sm-7">
            <select onChange =
"displayDiv();" id = "pType" name = "pType"
class = "form-control" required autofocus>
                <option value =
"Conductor">Conductor</option>
                <option value =
"Driver">Driver</option>
            </select>
        </div>
</div>
<div id = "driverDiv" class =
"form-group form-inline" style="display:none;">
    <label for = "lNo" class =
"control-label col-sm-3">License No.</label>
    <div class = "col-sm-2">
        <input type = "text" id
= "lNo" name = "lNo" class = "form-control"
placeholder = "X00-00-000000" pattern = "[A-
Z]\d{2}-\d{2}-\d{6}">
    </div>
    <label for = "eDate" class
= "control-label col-sm-2">Expiration
Date</label>
        <div class = "col-sm-2">
            <input type = "date" id
= "eDate" name = "eDate" class = "form-
control">
        </div>
    </div>
</div>
<div class = "form-group">
    <div class = "col-sm-offset-3
col-sm-8">
        <button type = "submit"
class = "btn btn-primary">Add
Personnel</button>
    </div>
</div>
<span class = "glyphicon" style =
"content: \e247;"></span>

```

```

    </form>
</div>
</body>
<script>
    function displayDiv() {
        if(document.getElementById('pType').value
== 'Driver')
            document.getElementById('driverDiv').style.
display = 'block';
        else
            document.getElementById('driverDiv').style.
display = 'none';
    }
</script>
</html>
addTerminal.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>
        <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">
        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">
        <title>Add Terminal</title>
        <style>
            body {
                background-color: #D7D7D7;
            }
        </style>
        <script
src="http://maps.googleapis.com/maps/api/js"></
script>
        <script>
            var btLat;
            var btLong;
            var marker;
            var map;
            function initialize() {
                var mapProp = {
                    center:new
google.maps.LatLng(14.5980716,120.9796513),
                    zoom:14,
                    mapTypeId:google.maps.MapTypeId.ROADMAP
                };

```

```

        map = new
google.maps.Map(document.getElementById("google
Map"),mapProp);

google.maps.event.addListener(map, 'click',
function(event) {
    btLat = event.latLng.lat();
    btLong = event.latLng.lng();
    placeMarker(event.latLng);
});
}

google.maps.event.addDomListener(window,
'load', initialize);
</script>
</head>
<body>

    <div class = "container">
        <?php echo validation_errors();?>
        <form class = 'form-horizontal' role
= 'form' onSubmit = 'addTerminal(); return
false;'>
            <h1 class = "text-center"><span class
= "glyphicon glyphicon-plus"></span> Add
Terminal</h1>
            <div id = "n"></div>
            <br/>
            <div class = "form-group">
                <label for = "btName" class =
"control-label col-sm-4">Bus Terminal
Name</label>
                <div class = "col-sm-5">
                    <input type = "text" size =
"20" id = "btName" name = "btName" class =
"form-control" required autofocus>
                </div>
            </div>
            <div class = "form-group">
                <label for = "btType" class =
"control-label col-sm-4">Bus Terminal
Type</label>
                <div class = "col-sm-5">
                    <select onChange =
"display();" id = "btType" name = "btType"
class = "form-control" required autofocus>
                        <option value =
"Shared">Public</option>
                        <option value =
"Private">Private</option>
                    </select>
                </div>
            </div>
            <div id = "bCompanyPanel" class =
"form-group" style = "display: none;">
                <label for = "bCompany" class
= "control-label col-sm-4">Bus Company</label>
                <div class = "col-sm-5">
                    <select id = "bCompany"
name = "bCompany" class = "form-control"
required autofocus>
                        <option disabled
selected>Bus Company</option>
                    <?php
foreach($busCompanies as $b): ?>

```

```

                        <option value =
"<?php echo $b -> busCompanyID;?>"><?php echo
$b -> busCompanyName;?></option>
                    <?php endforeach;?>
                </select>
            </div>
        </div>
        <div class = "form-group">
            <label for = "btLocation"
class = "control-label col-sm-4">Bus Terminal
Location</label>
            <div id = "googleMap" class =
"col-sm-5" style = "left:16px; height: 250px;
width: 400px;">
            </div>
        </div>
        <div class = "form-group">
            <div class = "col-sm-offset-4
col-sm-5">
                <button type = "submit"
class = "btn btn-primary">Add Terminal</button>
            </div>
            <div>
                <span class = "glyphicon" style =
"content: \e247;"></span>
            </div>
        </div>
        <script>
            function display() {
                if(document.getElementById("btType").value
== "Private")
                    document.getElementById("bCompanyPanel").st
yle.display = "block";
                else
                    document.getElementById("bCompanyPanel").st
yle.display = "none";
            }

            function placeMarker(loc) {
                if(marker != null) {
                    marker.setPosition(loc);
                }
                else {
                    marker = new
google.maps.Marker({
                        position: loc,
                        map: map
                    });
                }
            }

            function addTerminal() {
                var btName =
document.getElementById("btName").value;
                var btType =
document.getElementById("btType").value;
                var bCompany =
document.getElementById("bCompany").value;

                var val = true;
                var valstring = "";

                if(btLat == null || btLong ==
null) {
                    val = false;

```



```

        valstring += "Please input
location";
    }
    if(btType == "Private" &&
bCompany == "Bus Company") {
        val = false;
        valstring += "<br/>Please
specify bus company";
    }

    if(val) {
        addT(btName, btType,
bCompany);
    }
    else {

        document.getElementById("n").className =
"alert alert-danger";

        document.getElementById("n").innerHTML =
valstring;
    }

    function addT(btName, btType,
bCompany) {
        var xmlhttp;
        var resp;

        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }

        xmlhttp.onreadystatechange=function() {
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                resp =
xmlhttp.responseText;
                if(resp == "Bus Terminal
Added") {

                    document.getElementById("n").className =
"alert alert-success";
                }
                else {

                    document.getElementById("n").className =
"alert alert-danger";
                }

                document.getElementById("n").innerHTML =
resp;
            }
        }

        var parameters =
"btName="+btName+"&btType="+btType+"&bCompany="
+bCompany+"&btLat="+btLat+"&btLong="+btLong;

        xmlhttp.open("POST", "./add",
true);

        xmlhttp.setRequestHeader("ajaxOnly", "yes");

```

```

        xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
        xmlhttp.send(parameters);
    }
}
</script>

</body>
</html>
addUser.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

    <meta charset = "utf-8">
    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

    <title>Add User</title>

    <style>
        body {
            background-color: #D7D7D7;
        }
    </style>
</head>
<body>

    <div class = "container col-sm-6">
        <?php echo validation_errors();?>
        <form class = 'form-horizontal' role
= 'form' onSubmit = 'addUser(); return false;'>
            <h1 class = "text-center"><span class
= "glyphicon glyphicon-plus"></span> Add
User</h1>
            <div id = "n"></div>
            <br/>
            <div class = "form-group">
                <label for = "uName" class =
"control-label col-sm-4"><span class =
"glyphicon glyphicon-user"></span>
Username</label>
                <div class = "col-sm-8">
                    <input type = "text" size =
"20" id = "uName" name = "uName" class = "form-
control" required autofocus>
                </div>
            </div>
            <div class = "form-group">
                <label for = "uType" class =
"control-label col-sm-4">User Type</label>
                <div class = "col-sm-8">

```

```

                <select      onChange      =
"displayDiv();" id = "uType" name = "uType"
class = "form-control" required autofocus>
                <option      value      =
"sAdmin">System Administrator</option>
                <option      value      =
"btAdmin">Bus Terminal Administrator</option>
                </select>
            </div>
        </div>
        <div id = "bcDiv" class = "form-
group" style = "display: none;">
            <label for = "bCompany" class
= "control-label col-sm-4"><span class =
"glyphicon glyphicon-briefcase"></span> Bus
Company</label>
                <div class = "col-sm-8">
                    <select      onChange      =
"getBusTerminals()" id = "bCompany" name =
"bCompany" class = "form-control" required>
selected>Bus Company</option>
                    <?php
foreach($busCompanies as $b): ?>
                        <option      value      =
"<?php echo $b -> busCompanyID;?>"><?php echo
$b -> busCompanyName;?></option>
                    <?php endforeach;?>
                    </select>
                </div>
            </div>
            <div id = "btDiv" class = "form-
group" style = "display: none;">
                <label for = "bTerminal" class
= "control-label col-sm-4"><span class =
"glyphicon glyphicon-exclamation-sign"></span>
Bus Terminal</label>
                <div class = "col-sm-8">
                    <select id = "bTerminal"
name = "bTerminal" class = "form-control">
                    <option      disabled
selected>Bus Terminal</option>
                    </select>
                </div>
            </div>
            <div class = "form-group">
                <div class = "col-sm-offset-4
col-sm-8">
                    <button type = "submit"
class = "btn btn-primary">Add User</button>
                </div>
            </div>
            <span class = "glyphicon" style =
"content: \e247;"></span>
        </form>
    </div>
</body>
</html>
busForm.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

```

```

                <link      rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

                <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
                <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

                <meta charset = "utf-8">
                <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

                <title><?php echo ($add ? "Add" :
"Edit");?> Bus</title>

                <style>
                body {
                    background-color: #D7D7D7;
                }
                input, select {
                    width: 300px;
                }
            </style>
        </head>
        <body>

            <div class = "container col-sm-6">
                <?php echo validation_errors();?>
                <form class = 'form-horizontal' role
= 'form' onSubmit = '<?php echo ($add) ? "add"
: "edit";?>Bus(); return false;'>
                    <?php if($add):?>
                        <h1 class = "text-
center"><span class = "glyphicon glyphicon-
plus"></span> Add Bus</h1>
                    <?php else:~?>
                        <h1 class = "text-
center"><span class = "glyphicon glyphicon-
edit"></span> Edit Bus</h1>
                    <?php endif;?>
                    <br/>
                    <br/>
                    <div id = "n"></div>
                    <div class = "form-group">
                        <label for = "bpNo" class =
"control-label col-sm-4"> Plate Number</label>
                        <div class = "col-sm-7">
                            <input onKeyUp = "check()"
type = "text" size = "10" id = "bpNo" name =
"bpNo" class = "form-control" required
autofocus>
                                <p id = "validator"></p>
                            </div>
                        </div>
                    <div class = "form-group">
                        <label for = "bPNo" class =
"control-label col-sm-4"> Bus Company</label>
                        <div class = "col-sm-7">
                            <select class = "form-
control" id = "busCompanyID">
                                <?php foreach($companies
as $c):?>
                                    <option      value      =
"<?php echo $c -> busCompanyID;?>"><?php echo
$c -> busCompanyName;?></option>
                                <?php endforeach;?>

```

```

        </select>
    </div>
</div>
<div class = "form-group">
    <div class = "col-sm-offset-4
col-sm-8">
        <button type = "submit"
class = "btn btn-primary"><?php echo ($add ?
"Add" : "Edit");?> Bus</button>
    </div>
</div>
</form>
</div>
</body>
</html>
changePass.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>

        <link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <style>
            .panel {
                border-color: #B6B6B6;
                position: absolute;
                top: 0;
                bottom: 0;
                left: 0;
                right: 0;
                width: 300px;
                height: 225px;
                margin: auto;
            }

            body {
                background-color: #D7D7D7;
            }
        </style>

        <title>Change Password</title>
    </head>
    <body>

        <div class = "container">
            <?php echo validation_errors();?>
            <?php echo form_open('users/cpass',
array('class' => 'form-horizontal', 'role' =>
'form'))?>
                <div class = "panel panel-
default">
                    <div class = "panel-heading">

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```

        <h4 class = "form-signin-
heading">Change Password</h2>
    </div>
    <div class = "panel-body">
        <div class = "form-group">
            <label for = "pWord"
class = "glyphicon glyphicon-lock control-label
col-sm-2"></label>
                <div class = "col-sm-
10">
                    <input type =
"password" size = "20" id = "pWord" name =
"pWord" class = "form-control" placeholder =
"Password" required>
                </div>
            </div>
            <div class = "form-group">
                <div class = "col-sm-
offset-2 col-sm-10">
                    <button type =
"submit" class = "btn btn-primary btn-
block">Change Password</button>
                </div>
            </div>
        </div>
    </form>
</div>
</div>
<script>
    $(document).ready(function(){
        $('[data-
toggle="popover"]').popover();
    });
</script>

</body>
</html>
complaintForm.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>

        <link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <title>Send Complaint</title>

        <style>
            body {
                background-color: #D7D7D7;
            }
            input, select {

```

```

        width: 300px;
    }
</style>
</head>
<body>

    <div class = "container">
        <br/>
        <br/>
        <br/>
        <br/>
        <h2 class = "text-center">Send a
Complaint</h2>
        <?php echo validation_errors();?>
        <br/>
        <p class = "text-center">Send a
complaint about any bus or bus company...</p>
        <form class = 'form-horizontal'
onSubmit = 'sendComplaint();return false;' role
= 'form'>
            <div id = "n"></div>
            <div class = "form-group">
                <label for = "cSender" class =
"control-label col-sm-4"> Sender
(optional)</label>
                <div class = "col-sm-5">
                    <input type = "text" size =
"50" id = "cSender" name = "cSender" class =
"form-control">
                </div>
            </div>
            <div class = "form-group">
                <label for = "cIssue" class =
"control-label col-sm-4"> Complaint
Issue</label>
                <div class = "col-sm-5">
                    <select class = "form-
control" id = "cIssue" name = "cIssue">
                        <option value =
"Discount Fairness">Discount Fairness</option>
                        <option value = "Cutting
Trips">Cutting Trips</option>
                        <option value = "Route
Change">Route Change</option>
                        <option value = "Other
Crime Involvement">Other Crime
Involvement</option>
                    </select>
                </div>
            </div>
            <div class = "form-group">
                <label for = "cDetails" class
= "control-label col-sm-4"> Details</label>
                <div class = "col-sm-5">
                    <textarea class="form-
control" rows="5" id = "cDetails" name =
"cDetails" required autofocus></textarea>
                </div>
            </div>
            <div class = "form-group">
                <div class = "col-sm-offset-5
col-sm-7">
                    <button type = "submit"
class = "btn btn-primary">Send
Complaint</button>
                </div>
            </div>
        </form>
    </div>

```

```

<script>
    function sendComplaint() {
        var xhttp;
        if (window.XMLHttpRequest) {
            xhttp=new XMLHttpRequest();
        }
        else {
            xhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xhttp.onreadystatechange =
function() {
            if (xhttp.readyState == 4 &&
xhttp.status == 200) {
                var resp =
xhttp.responseText;
                if(resp == "Report Sent")

                    document.getElementById("n").className =
                    "alert alert-success";
                else

                    document.getElementById("n").className =
                    "alert alert-danger";

                document.getElementById("n").innerHTML =
resp;

                //document.getElementById("n").innerHTML =
xhttp.responseText;
            }
        };

        var cSender =
document.getElementById("cSender").value;
        var cIssue =
document.getElementById("cIssue").value;
        var cDetails =
document.getElementById("cDetails").value;
        var parameters =
"cSender="+cSender+"&cIssue="+cIssue+"&cDetails
="+cDetails;
        xhttp.open("POST",
"../reports/addComplaint", true);
        xhttp.setRequestHeader("Content-
type", "application/x-www-form-urlencoded");
        xhttp.send(parameters);
    }
</script>
</body>
</html>
dispatchBus.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>

```

```

<script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
<script
src="http://maps.googleapis.com/maps/api/js"></
script>

<script>
var map;
var terminalPositions = {};
var marker;
var infowindow;
var myCenter = new
google.maps.LatLng(14.5980716,120.9796513);
function initialize() {
var mapProp = {
center: myCenter,
zoom: 15,
mapTypeId:
google.maps.MapTypeId.ROADMAP
};
map = new
google.maps.Map(document.getElementById("map"),
mapProp);

}

google.maps.event.addDomListener(window,
'load', initialize);
</script>

<meta charset = "utf-8">
<meta name = "viewport" content = "width
= device-width, initial-scale = 1">

<style>
body {
background-color: #D7D7D7;
}

#list {
height: 85%;
overflow: auto;
}
</style>

<title>Dispatch Bus</title>
</head>
<body>

<div class = "container col-sm-6" id =
"routeForm">
<h1 class = "text-center"><span class
= "glyphicon glyphicon-bed"></span> Dispatch
Bus</h1>
<form class = 'form-horizontal' role
= 'form' onSubmit = "dispatch();return false;">
<div id = "n"></div>
<br/>
<div class = "form-group">
<label for = "busPlateNos"
class = "control-label col-sm-2">Bus:</label>
<div class = "col-sm-7">
<select class = "form-
control" id = "busPlateNos">
<?php foreach($buses as
$b):?>

```

```

<option value =
"<?php echo $b -> busPlateNo;?>"><?php echo $b
-> busPlateNo;?></option>
<?php endforeach;?>
</select>
</div>
</div>
<div class = "form-group">
<label for =
"terminalRouteIDs" class = "control-label col-
sm-2">Route:</label>
<div class = "col-sm-7">
<select class = "form-
control" id = "terminalRouteIDs">
<?php foreach($busRoutes
as $b):?>
<option value =
"<?php echo $b -> terminalRouteID?>"><?php echo
$b -> routeFrom;?>&rarr;<?php echo $b ->
routeTo;?></option>
<?php endforeach;?>
</select>
</div>
</div>
<a href = "#" class = "btn
btn-primary" onClick = "getRouteID();"><span
class = "glyphicon glyphicon-
screenshot"></span> View Route</a>
</div>
<div class = "form-group">
<label for = "driverID" class
= "control-label col-sm-2">Driver:</label>
<div class = "col-sm-7">
<select class = "form-
control" id = "driverID">
<?php
foreach($busDrivers as $b):?>
<option value =
"<?php echo $b -> busPersonnelID?>"><?php echo
strtoupper($b -> busPersonnelLName) . ", " . $b
-> busPersonnelFName . " " . $b ->
busPersonnelMName?></option>
<?php endforeach;?>
</select>
</div>
</div>
<a href = "#" class = "btn
btn-primary" onClick = "viewInfoD();"><span
class = "glyphicon glyphicon-user"></span> View
Info</a>
</div>
</div>
<div class = "form-group">
<label for = "conductorID"
class = "control-label col-sm-
2">Conductor:</label>
<div class = "col-sm-7">
<select class = "form-
control" id = "conductorID">
<?php
foreach($busConductors as $b):?>
<option value =
"<?php echo $b -> busPersonnelID?>"><?php echo
strtoupper($b -> busPersonnelLName) . ", " . $b
-> busPersonnelFName . " " . $b ->
busPersonnelMName?></option>
<?php endforeach;?>
</select>
</div>
</div>
<a href = "#" class = "btn
btn-primary" onClick = "viewInfoC();"><span

```

```

class = "glyphicon glyphicon-user"></span> View
Info</a>
    </div>
    <div class = "form-group">
        <label for = "busPlateNos"
class = "control-label col-sm-2">Number of
Available Seats:</label>
        <div class = "col-sm-7">
            <input type = "number"
class = "form-control" name = "numASeats" id =
"numASeats"/>
        </div>
        <input type = "submit" class =
"col-sm-offset-4 btn btn-primary" value =
"Dispatch Bus"/>
    </form>

    <div class = "modal fade" id =
"personnelInfo" role = "dialog">
        <div class = "modal-dialog modal-
lg">
            <div class = "modal-content">
                <div class = "modal-
header">
                    <button type="button"
class="close" data-dismiss =
"modal">&times;</button>
                    <h4 class="modal-
title">Personnel Information</h4>
                </div>
                <div class="container
modal-body">
                    <div class = "col-sm-2">
                        <img src="" style =
"width:192px;height:192px;border:3px solid
black;" id = "profile"/>
                    </div>
                    <div class = "col-sm-9">
                        <dl class = "dl-
horizontal">
                            <dt>Personnel
ID:</dt>
                            <dd id =
"pID"></dd>
                            <dt>Name:</dt>
                            <dd id =
"pName"></dd>
                            <dt>SSN:</dt>
                            <dd id =
"pSSN"></dd>
                            <dt>Address:</dt>
                            <dd id =
"pAdd"></dd>
                            <dt>Birthday:</dt>
                            <dd id =
"pBday"></dd>
                            <dt>Bus
Company:</dt>
                            <dd id =
"pBC"></dd>
                            <dt>Personnel
Type:</dt>
                            <dd id =
"pType"></dd>
                            <dt id =
"pLLabel">License No.:</dt>

```

```

        <dd id =
"pLNo"></dd>
        <dt id =
"pLabel">ExpirationDate:</dt>
        <dd id =
"pED"></dd>
    </dl>
    </div>
    <div class="modal-footer">
        <button type="button"
class="btn btn-default" data-
dismiss="modal">Close</button>
    </div>
</div>
</div>
</div>

    <div class = "container col-sm-6" style
= "border:2px solid black;width: 45%; height:
500px; position: relative;">
        <div id = "map" style = "width: 90%;
height: 450px; position: relative; top: 25px;
left: 30px;">
        </div>
    </div>

    <script>
        var markers = [];
        var m1, m2, rLine, bound, i1, i2;

        function getRouteID() {
            var terminalRouteID =
document.getElementById("terminalRouteIDs").val
ue;

            var xmlhttp;
            var routeInfo;

            if (window.XMLHttpRequest) {
                xmlhttp=new XMLHttpRequest();
            }
            else {
                xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
            }

            xmlhttp.onreadystatechange=function() {
                if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                    var rID =
xmlhttp.responseText;
                    viewRoute(rID);
                }
            }

            var parameters =
"trID="+terminalRouteID;
            xmlhttp.open("POST", "getRouteID",
true);

            xmlhttp.setRequestHeader("ajaxOnly", "yes");

            xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
            xmlhttp.send(parameters);
        }
    </script>

```

```

function dispatch() {
    var pNo = document.getElementById("busPlateNos").value;
    var rID = document.getElementById("terminalRouteIDs").value;
    var dID = document.getElementById("driverID").value;
    var cID = document.getElementById("conductorID").value;
    var num = document.getElementById("numASeats").value;

    var xmlhttp;

    if (window.XMLHttpRequest) {
        xmlhttp=new XMLHttpRequest();
    }
    else {
        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");

        xmlhttp.onreadystatechange=function() {
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                var pInfo =
JSON.parse(xmlhttp.responseText);

                document.getElementById("profile").src =
"./" + pInfo["busPersonnelProfilePath"];

                document.getElementById("pID").innerHTML =
pInfo["busPersonnelID"];

                document.getElementById("pName").innerHTML =
pInfo["busPersonnelName"].toUpperCase() + ", "
+ pInfo["busPersonnelFName"] + " " +
pInfo["busPersonnelMName"];

                document.getElementById("pSSN").innerHTML =
pInfo["busPersonnelSSN"];

                document.getElementById("pAdd").innerHTML =
pInfo["busPersonnelAddress"];

                document.getElementById("pBday").innerHTML
= pInfo["busPersonnelBDay"];

                document.getElementById("pBC").innerHTML =
pInfo["busCompanyName"];

                document.getElementById("pType").innerHTML
= pInfo["busPersonnelType"];

                if(pInfo["busPersonnelType"] == "Driver") {

                    document.getElementById("pLLabel").style.di
splay = "block";

                    document.getElementById("pELabel").style.di
splay = "block";

                    document.getElementById("pLNo").innerHTML
= pInfo["licenseNo"];

                    document.getElementById("pED").innerHTML
= pInfo["expirationDate"];
                }
                else {

                    document.getElementById("pLLabel").style.di
splay = "none";

                    document.getElementById("pELabel").style.di
splay = "none";

                    document.getElementById("pLNo").innerHTML
= "";

                    document.getElementById("pED").innerHTML
= "";
                }
            }
        }

        xmlhttp.open("POST","dispatchBus", true);

        xmlhttp.setRequestHeader("ajaxOnly", "yes");

        xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
        xmlhttp.send(parameters);

        function viewInfoC() {
            viewInfo(document.getElementById("conductor
ID").value);
        }
        function viewInfoD() {
            viewInfo(document.getElementById("driverID"
).value);
        }
        function viewInfo(pid){
            var xmlhttp;

            if (window.XMLHttpRequest) {
                xmlhttp=new XMLHttpRequest();
            }
            else {
                xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");

                xmlhttp.onreadystatechange=function() {
                    if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                        var pInfo =
JSON.parse(xmlhttp.responseText);

                        document.getElementById("profile").src =
"./" + pInfo["busPersonnelProfilePath"];

                        document.getElementById("pID").innerHTML =
pInfo["busPersonnelID"];

                        document.getElementById("pName").innerHTML =
pInfo["busPersonnelName"].toUpperCase() + ", "
+ pInfo["busPersonnelFName"] + " " +
pInfo["busPersonnelMName"];

                        document.getElementById("pSSN").innerHTML =
pInfo["busPersonnelSSN"];

                        document.getElementById("pAdd").innerHTML =
pInfo["busPersonnelAddress"];

                        document.getElementById("pBday").innerHTML
= pInfo["busPersonnelBDay"];

                        document.getElementById("pBC").innerHTML =
pInfo["busCompanyName"];

                        document.getElementById("pType").innerHTML
= pInfo["busPersonnelType"];

                        if(pInfo["busPersonnelType"] == "Driver") {

                            document.getElementById("pLLabel").style.di
splay = "block";

                            document.getElementById("pELabel").style.di
splay = "block";

                            document.getElementById("pLNo").innerHTML
= pInfo["licenseNo"];

                            document.getElementById("pED").innerHTML
= pInfo["expirationDate"];
                        }
                        else {

                            document.getElementById("pLLabel").style.di
splay = "none";

                            document.getElementById("pELabel").style.di
splay = "none";

                            document.getElementById("pLNo").innerHTML
= "";

                            document.getElementById("pED").innerHTML
= "";
                        }
                    }
                }

                xmlhttp.open("POST","dispatchBus", true);

                xmlhttp.setRequestHeader("ajaxOnly", "yes");

                xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
                xmlhttp.send(parameters);

                function viewInfoC() {
                    viewInfo(document.getElementById("conductor
ID").value);
                }
                function viewInfoD() {
                    viewInfo(document.getElementById("driverID"
).value);
                }
                function viewInfo(pid){
                    var xmlhttp;

```

```

        position: markers[0],
        map: map
    });
    m2 = new
google.maps.Marker({
    position:
markers[markers.length-1],
    map: map
});
i1 = new
google.maps.InfoWindow({
    content: 'From: ' +
routeInfo['mainInfo']['rFrom']
});
i2 = new
google.maps.InfoWindow({
    content: 'To: ' +
routeInfo['mainInfo']['rTo']
});
i1.open(map, m1);
i2.open(map, m2);
rLine = new
google.maps.Polyline({
    path: markers,
    geodesic: true,
    strokeColor: '#FF0000',
    strokeOpacity: 0.80,
    strokeWeight: 2,
    map: map
});
map.fitBounds(bounds);
}

var parameters = "rID="+rID;

xmlhttp.open("POST", "../busroutes/viewMap",
true);

xmlhttp.setRequestHeader("ajaxOnly", "yes");

xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
xmlhttp.send(parameters);
}

function viewRoute(rID) {
    markers = [];
    if(marker != null) {
        marker.setMap(null);
        marker.setAnimation(null);
        marker = null;
    }
    if(i1 != null && i2 != null && m1
!= null && m2!= null && rLine != null && bound
!= null) {
        m1.setMap(null);
        m2.setMap(null);
        i1.setMap(null);
        i2.setMap(null);
        rLine.setMap(null);
        rLine = null;
        m1 = null;
        m2 = null;
        i1 = null;
        i2 = null;
    }

    var xmlhttp;
    var routeInfo;

    if (window.XMLHttpRequest) {
        xmlhttp=new XMLHttpRequest();
    }
    else {
        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }

    xmlhttp.onreadystatechange=function() {
        if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
            routeInfo =
JSON.parse(xmlhttp.responseText);
            var routePoints =
routeInfo['routePoints'];
            bound = new
google.maps.LatLngBounds();
            for(var i = 0; i <
routePoints.length; i++) {
                markers.push(new
google.maps.LatLng(routePoints[i]['lat'], routeP
oints[i]['lng']));
            }
            bound.extend(markers[markers.length-1]);
            m1 = new
google.maps.Marker({

```



```

        <option value =
"Driver" selected>Driver</option>
        <?php else:?>
        <option value =
"Driver">Driver</option>
        <?php endif;?>
    </select>
</div>
</div>
<?php if($bp -> busPersonnelType
== "Driver"):?>
    <div id = "driverDiv">
    <?php else:?>
    <div id = "driverDiv"
style="display:none;">
    <?php endif;?>
    <div class = "form-group">
    <label for = "lNo" class =
"control-label col-sm-3">License No.</label>
    <div class = "col-sm-7">
    <?php if($bp ->
busPersonnelType == "Driver"):?>
        <input type = "text"
id = "lNo" name = "lNo" class = "form-control"
value = "<?php echo $bp -> licenseNo;?>"
placeholder = "X00-00-000000" pattern = "[A-
Z]\d{2}-\d{2}-\d{6}">
    <?php else:?>
        <input type = "text"
id = "lNo" name = "lNo" class = "form-control"
placeholder = "X00-00-000000" pattern = "[A-
Z]\d{2}-\d{2}-\d{6}">
    <?php endif;?>
    </div>
    </div>
    <div class = "form-group">
    <label for = "eDate" class
= "control-label col-sm-3">Expiration
Date</label>
    <div class = "col-sm-7">
    <?php if($bp ->
busPersonnelType == "Driver"):?>
        <input type = "date"
id = "eDate" name = "eDate" class = "form-
control" value = "<?php echo $bp ->
expirationDate;?>">
    <?php else:?>
        <input type = "date"
id = "eDate" name = "eDate" class = "form-
control">
    <?php endif;?>
    </div>
    </div>
    <div class = "form-group">
    <div class = "col-sm-offset-3
col-sm-8">
        <button type = "submit"
class = "btn btn-primary">Update
Record</button>
    </div>
    </div>
    <span class = "glyphicon" style =
"content: \e247;"></span>
    </form>
</div>
</body>
</html>
editTerminal.php

```

```

<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>
        <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">
        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">
        <title>Edit Terminal</title>
        <style>
            body {
                background-color: #D7D7D7;
            }
        </style>
        <script
src="http://maps.googleapis.com/maps/api/js"></
script>
        <script>
            var btLat = <?php echo
$busTerminal[0] -> stopPointLat;?>;
            var btLong = <?php echo
$busTerminal[0] -> stopPointLong;?>;
            var marker;
            var map;
            function initialize() {
                var mapProp = {
                    center:new
google.maps.LatLng(<?php echo $busTerminal[0] -
> stopPointLat;?>,<?php echo $busTerminal[0] ->
stopPointLong;?>),
                    zoom:14,
                    mapTypeId:google.maps.MapTypeId.ROADMAP
                };
                map = new
google.maps.Map(document.getElementById("google
Map"),mapProp);
                marker = new google.maps.Marker({
                    position: new
google.maps.LatLng(<?php echo $busTerminal[0] -
> stopPointLat;?>,<?php echo $busTerminal[0] ->
stopPointLong;?>),
                    map: map
                });
                google.maps.event.addListener(map, 'click',
function(event) {
                    btLat = event.latLng.lat();

```

```

        btLong = event.latLng.lng();
        placeMarker(event.latLng);
    });
}

google.maps.event.addDomListener(window,
'load', initialize);
</script>
</head>
<body>

    <div class = "container">
        <?php echo validation_errors();?>
        <form class = 'form-horizontal' role
= 'form' onSubmit = 'editTerminal(); return
false;'>
            <h1 class = "text-center"><span class
= "glyphicon glyphicon-edit"></span> Edit
Terminal</h1>
            <div id = "n"></div>
            <br/>
            <div class = "form-group">
                <label for = "btName" class =
"control-label col-sm-4">Bus Terminal
Name</label>
                <div class = "col-sm-5">
                    <input type = "text" size =
"20" id = "btName" name = "btName" class =
"form-control" value = "<?php echo
$busTerminal[0] -> stopPointName;?" required
autofocus>
                </div>
            </div>
            <div class = "form-group">
                <label for = "btType" class =
"control-label col-sm-4">Bus Terminal
Type</label>
                <div class = "col-sm-5">
                    <select onChange =
"display();" id = "btType" name = "btType"
class = "form-control" required autofocus>
                        <option value =
"Shared">Public</option>
                        <option value =
"Private">Private</option>
                    </select>
                </div>
            </div>
            <div id = "bCompanyPanel" class =
"form-group" style = "display: none;">
                <label for = "bCompany" class
= "control-label col-sm-4">Bus Company</label>
                <div class = "col-sm-5">
                    <select id = "bCompany"
name = "bCompany" class = "form-control"
required autofocus>
                        <option disabled
selected>Bus Company</option>
                        <?php
foreach($busCompanies as $b): ?>
                            <option value =
"<?php echo $b -> busCompanyID;?"><?php echo
$b -> busCompanyName;?"</option>
                        <?php endforeach;?>
                    </select>
                </div>
            </div>
            <div class = "form-group">

```

```

                <label for = "btLocation"
class = "control-label col-sm-4">Bus Terminal
Location</label>
                <div id = "googleMap" class =
"col-sm-5" style = "left:16px; height: 250px;
width: 400px;">
                    </div>
                </div>
            <div class = "form-group">
                <div class = "col-sm-offset-4
col-sm-5">
                    <button type = "submit"
class = "btn btn-primary">Edit
Terminal</button>
                </div>
            </div>
            <span class = "glyphicon" style =
"content: \e247;"></span>
            </form>
        </div>

        <script>
            function display() {

                if(document.getElementById("btType").value
== "Private")

                    document.getElementById("bCompanyPanel").st
yle.display = "block";
                else

                    document.getElementById("bCompanyPanel").st
yle.display = "none";
            }

            function placeMarker(loc) {
                if(marker != null) {
                    marker.setPosition(loc);
                }
                else {
                    marker = new
google.maps.Marker({
                        position: loc,
                        map: map
                    });
                }
            }

            function editTerminal() {
                var btName =
document.getElementById("btName").value;
                var btType =
document.getElementById("btType").value;
                var bCompany =
document.getElementById("bCompany").value;

                var val = true;
                var valstring = "";

                if(btLat == null || btLong ==
null) {
                    val = false;
                    valstring += "Please input
location";
                }
                if(btType == "Private" &&
bCompany == "Bus Company") {
                    val = false;

```

```

        valstring += "<br/>Please
specify bus company";
    }

    if(val) {
        editT(btName, btType,
bCompany);
    }
    else {

        document.getElementById("n").className =
"alert alert-danger";

        document.getElementById("n").innerHTML =
valstring;
    }

    function editT(btName, btType,
bCompany) {
        var xmlhttp;
        var resp;

        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }

        xmlhttp.onreadystatechange=function() {
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                resp =
xmlhttp.responseText;
                if(resp == "Bus Terminal
Updated") {

                    document.getElementById("n").className =
"alert alert-success";
                }
                else {

                    document.getElementById("n").className =
"alert alert-danger";
                }

                document.getElementById("n").innerHTML =
resp;
            }
        }

        var parameters = "btID=<?php echo
$busTerminal[0] ->
stopPointID;?>&btName="+btName+"&btType="+btTyp
e+"&bCompany="+bCompany+"&btLat="+btLat+"&btLon
g="+btLong;

        xmlhttp.open("POST", "../edit",
true);

        xmlhttp.setRequestHeader("ajaxOnly", "yes");

        xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
        xmlhttp.send(parameters);
    }
</script>

```

```

</body>
</html>
error_page.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

    <meta charset = "utf-8">
    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

    <style>
        .panel {
            position: absolute;
            top: 0;
            bottom: 0;
            left: 0;
            right: 0;
            width: 600px;
            height: 300px;
            background-color: #D7D7D7;
            border-color: #D7D7D7;
            margin: auto;
        }
        body {
            background-color: #D7D7D7;
        }
    </style>

    <title>ERROR!!!</title>
</head>
<body>

    <div class = "container">
        <div class = "panel panel-default">
            <div class = "panel-body">
                <?php echo img(array("src" =>
"images/button_invalid.png", "class" => "img-
responsive center-block"));?>
                <h1 class = "text-center"
style = "color: #000000;">You are not allowed
to view this page...</h1>
            </div>
        </div>
    </div>

</body>
</html>
home.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');

```

```

?>
<!DOCTYPE html>
<html lang="en">
  <head>
    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">
    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
    <meta charset = "utf-8">
    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">
    <style>
      .carousel-inner > .item > img,
      .carousel-inner > .item > a > img {
        width: 80%;
        margin: auto;
      }
      body {
        background-color: #D7D7D7;
      }
    </style>
    <title>Welcome to OPPBT</title>
  </head>
  <body>
    <div class = "container">
      <!-- IMAGE SLIDESHOW -->
      <div id = "slideShow" class =
"carousel slide" data-ride = "carousel">
        <!-- Indicators -->
        <ol class = "carousel-
indicators">
          <li data-target = "#slideShow"
data-slide-to = "0" class = "active"></li>
          <li data-target = "#slideShow"
data-slide-to = "1"></li>
          <li data-target = "#slideShow"
data-slide-to = "2"></li>
          <li data-target = "#slideShow"
data-slide-to = "3"></li>
        </ol>
        <!-- Wrapper for Slides -->
        <div class = "carousel-inner"
role = "listbox">
          <div class = "item active">
            <img src =
"http://www.luxurybackpacker.com/wp-
content/uploads/2013/06/Philippines_bus_termina
1500x221.jpg" alt = "Bus Terminal" style =
"width:900px; height:400px;"></img>
            <div class = "carousel-
caption">
              <h3>Look for Buses</h3>
              <p>You can find buses
going to a particular terminal <a href =
"./trips">HERE</a></p>
            </div>
          </div>
        </div>
      </div>
    </body>
  </html>

```

```

</div>
<div class = "item">
  <img src =
"http://www.luxurybackpacker.com/wp-
content/uploads/2013/06/Philippines_bus_termina
1500x221.jpg" alt = "Bus Terminal" style =
"width:900px; height:400px;"></img>
  <div class = "carousel-
caption">
    <h3>View Location of
Terminals</h3>
    <p>You can view the
location of terminals <a href =
"./busterminals">HERE</a></p>
  </div>
</div>
<div class = "item">
  <img src =
"http://www.wheressharon.com/wp-
content/uploads/2013/03/IMG_3496.jpg" alt =
"Bus Interior" style = "width:700px;
height:400px;"></img>
  <div class = "carousel-
caption">
    <h3>Report</h3>
    <p>Report or Complain <a
href="./home/complaint">HERE</a></p>
  </div>
</div>
<div class = "item">
  <img src =
"http://images.clipartpanda.com/asking-clipart-
question_mark.jpg" alt = "Question Mark" style
= "width:400px; height:400px;"></img>
  <div class = "carousel-
caption">
    <h3>About OPPBT</h3>
    <p>Learn more about
OPPBT <a href="./home/about">HERE</a></p>
  </div>
</div>
<!-- Controls -->
<a class = "left carousel-
control" href = "#slideShow" role = "button"
data-slide = "prev">
  <span class = "glyphicon
glyphicon-chevron-left" aria-hidden =
"true"></span>
  <span class = "sr-
only">Previous</span>
</a>
<a class = "right carousel-
control" href = "#slideShow" role = "button"
data-slide = "next">
  <span class = "glyphicon
glyphicon-chevron-right" aria-hidden =
"true"></span>
  <span class = "sr-
only">Next</span>
</a>
</div>
</div>

```

```

<script>
    $(document).ready(function(){
        $('[data-
toggle="popover"]').popover();
    });
</script>

</body>
</html>
home_btAdmin.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

<link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

<script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
<script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

<meta charset = "utf-8">
<meta name = "viewport" content = "width
= device-width, initial-scale = 1">

<style>
.carousel-inner > .item > img,
.carousel-inner > .item > a > img {
    width: 80%;
    margin: auto;
}

body {
    background-color: #D7D7D7;
}

#welcome {
    border-radius: 50%;
    width: 200px;
    height: 200px;
    background: #ffff4d;
    border: 3px solid #ffff1a;
    position: relative;
    left: 150px;
    top: 150px;
}

.menuItems {
    border-top-right-radius:100px;
    border-bottom-right-radius:100px;
    width: 500px;
    height: 50px;
    position: relative;
    margin: 0px;
    background:#ff4d4d;
    left: 250px;
}

.menuContent {
    position: relative;
    margin: 0px;

```

```

left: 30px;
top: 12px;
}

.menuItems:hover{
    background: #ff3333;
}

.submenuItems:hover{
    background: #00b8e6;
}

a, a:link, a:visited, a:hover,
a:active, .menuItems:hover, .submenuItems:hover
{
    color: #333333;
    text-decoration: none;
}
</style>

<title>OPPBT - System Admin</title>
</head>
<body>

<div class = "container">
<div id = "welcome">
<h3 style = "position: relative;
margin: 0px; left: 35px; top:
75px;"><b>WELCOME</b></h3>
<a href="./buses"><div class =
"menuItems" style = "top: -35px;">
<h3 class
=
"menuContent"><span class =
"glyphicon
glyphicon-bed"></span> Buses</h3>
</div>
</a>
<a href="./trips"><div class =
"menuItems" style = "top: -30px;">
<h3 class
=
"menuContent"><span class =
"glyphicon
glyphicon-bed"></span> Trips</h3>
</div>
</a>
<a href="./busroutes"><div class
= "menuItems" style = "top: -25px;">
<h3 class
=
"menuContent"><span class =
"glyphicon
glyphicon-road"></span> Bus Routes</h3>
</div>
</a>
<a
href="./trips/viewHistory"><div class
= "menuItems" style = "top: -20px;">
<h3 class
=
"menuContent"><span class =
"glyphicon
glyphicon-calendar"></span> Trip History</h3>
</div>
</a>
</div>

</div>

</body>
</html>
home_sAdmin.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>

```

```

<!DOCTYPE html>
<html lang="en">
  <head>

    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

    <meta charset = "utf-8">
    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

    <style>
    .carousel-inner > .item > img,
    .carousel-inner > .item > a > img {
      width: 80%;
      margin: auto;
    }

    body {
      background-color: #D7D7D7;
    }

    #welcome {
      border-radius: 50%;
      width: 200px;
      height: 200px;
      background: #ffff4d;
      border: 3px solid #ffff1a;
      position: relative;
      left: 100px;
    }

    .menuItems {
      border-top-right-radius:100px;
      border-bottom-right-radius:100px;
      width: 500px;
      height: 50px;
      position: relative;
      margin: 0px;
      background:#ff4d4d;
      left: 250px;
    }

    .submenuItems {
      border-top-left-radius: 100px;
      border-bottom-left-radius: 100px;
      width: 500px;
      height: 40px;
      position: relative;
      margin: 0px;
      background: #00ccff;
      left: 300px;
    }

    .menuContent {
      position: relative;
      margin: 0px;
      left: 30px;
      top: 8px;
    }

```

```

    .menuItems:hover{
      background: #ff3333;
    }

    .submenuItems:hover{
      background: #00b8e6;
    }

    a, a:link, a:visited, a:hover,
a:active, .menuItems:hover, .submenuItems:hover
{
      color: #333333;
      text-decoration: none;
    }
  </style>

  <title>OPPBT - System Admin</title>
</head>
<body>

  <div class = "container">
    <div id = "welcome">
      <h3 style = "position: relative;
margin: 0px; left: 35px; top:
75px;"><b>WELCOME</b></h3>
      <a href = "./users"><div onClick =
"location.href = './users';" class =
"menuItems" style = "top: 10px;">
        <h3 class =
"menuContent"><span class = "glyphicon
glyphicon-user"></span> USERS</h3>
      </div>
      </a>
      <a href="" onClick = "return
false;"><div class = "menuItems" style = "top:
15px;">
        <h3 class =
"menuContent"><span class = "glyphicon
glyphicon-list-alt"></span> RECORDS</h3>
      </div>
      </a>
      <a href = "./buscompanies"><div
class = "submenuItems" style = "top: 20px;">
        <h3 class =
"menuContent"><span class = "glyphicon
glyphicon-briefcase"></span> Bus Companies</h3>
      </div>
      </a>
      <a href = "./busterminals"><div
class = "submenuItems" style = "top: 25px;">
        <h3 class =
"menuContent"><span class = "glyphicon
glyphicon-exclamation-sign"></span> Bus
Terminals</h3>
      </div>
      </a>
      <a href = "./buses"><div class =
"submenuItems" style = "top: 30px;">
        <h3 class =
"menuContent"><span class = "glyphicon
glyphicon-bed"></span> Buses</h3>
      </div>
      </a>
      <a href = "./buspersonnels"><div
class = "submenuItems" style = "top: 35px;">
        <h3 class =
"menuContent"><span class = "glyphicon
glyphicon-user"></span> Bus Personnel</h3>
      </div>

```

```

        </a>
        <a href="/busroutes"><div class
= "submenuItems" style = "top: 40px;">
          <h3 class
=
"menuContent"><span class = "glyphicon
glyphicon-road"></span> Bus Routes</h3>
        </div>
        </a>
        <a
href="/reports/viewAllReports"><div class =
"submenuItems" style = "top: 45px;">
          <h3 class
=
"menuContent"><span class = "glyphicon
glyphicon-file"></span> Reports</h3>
        </div>
        <a
href="/reports/viewAllComplaints"><div class =
"submenuItems" style = "top: 50px;">
          <h3 class
=
"menuContent"><span class = "glyphicon
glyphicon-file"></span> Complaints</h3>
        </div>
        </a>
        <a href="/trips"><div class =
"submenuItems" style = "top: 55px;">
          <h3 class
=
"menuContent"><span class = "glyphicon
glyphicon-bed"></span> Trips</h3>
        </div>
        </a>
        <a
href="/trips/viewHistory"><div class =
"submenuItems" style = "top: 60px;">
          <h3 class
=
"menuContent"><span class = "glyphicon
glyphicon-calendar"></span> Trip History</h3>
        </div>
        </a>
      </div>
    </div>
  </body>
</html>
login_page.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
  <head>
    <link
rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">
    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
    <meta charset = "utf-8">
    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">
  </head>
  <body>
    <div class = "container">
      <div class = "panel panel-
default">
        <div class = "panel-heading">
          <h2>Login</h2>
        </div>
        <div class = "panel-body">
          <div class = "form-group">
            <input type = "text"
size = "20" id = "uName" name = "uName" class =
"form-control" placeholder = "Username"
required autofocus>
          </div>
          <div class = "form-group">
            <input type = "password" size = "20" id = "pWord" name =
"pWord" class = "form-control" placeholder =
"Password" required>
          </div>
          <div class = "form-group">
            <input type = "checkbox" class = "checkbox" checked = ""> Remember Me
          </div>
          <div class = "form-group">
            <button type = "submit" class = "btn btn-primary">Login</button>
          </div>
        </div>
      </div>
    </div>
  </body>
</html>

```

```

        .panel {
          border-color: #B6B6B6;
          position: absolute;
          top: 0;
          bottom: 0;
          left: 0;
          right: 0;
          width: 300px;
          height: 225px;
          margin: auto;
        }
        body {
          background-color: #D7D7D7;
        }
      </style>
    <title>Login</title>
  </head>
  <body>
    <div class = "container">
      <?php echo validation_errors();?>
      <?php echo form_open('verifyLogin',
array('class' => 'form-horizontal', 'role' =>
'form'))?>
      <div class = "panel panel-
default">
        <div class = "panel-heading">
          <h2 class = "form-signin-
heading">Login</h2>
        </div>
        <div class = "panel-body">
          <div class = "form-group">
            <input type = "text"
class = "glyphicon glyphicon-user control-label
col-sm-2"></input>
            <div class = "col-sm-
10">
              <input type = "text"
size = "20" id = "uName" name = "uName" class =
"form-control" placeholder = "Username"
required autofocus>
            </div>
          </div>
          <div class = "form-group">
            <input type = "password"
class = "glyphicon glyphicon-lock control-label
col-sm-2"></input>
            <div class = "col-sm-
10">
              <input type =
"password" size = "20" id = "pWord" name =
"pWord" class = "form-control" placeholder =
"Password" required>
            </div>
          </div>
          <div class = "form-group">
            <input type = "checkbox" class = "checkbox" checked = ""> Remember Me
          </div>
          <div class = "form-group">
            <button type = "submit" class = "btn btn-primary btn-
block">Submit</button>
          </div>
        </div>
      </div>
    </div>
  </body>
</div>
</form>
</div>

```



```

<script>
    $(document).ready(function(){
        $('[data-
toggle="popover"]').popover();
    });
</script>

</body>
</html>
routeForm.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>

        <link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <title><?php echo ($add ? 'Add' :
'Edit');?> Route</title>

        <style>
            body {
                background-color: #D7D7D7;
            }
            tbody {
                overflow-y: auto;
            }
            .glyphicon-arrow-up {
                color: #FF0000;
            }
            .glyphicon-arrow-down {
                color: #0000FF;
            }
        </style>

        <script
src="http://maps.googleapis.com/maps/api/js"></
script>
        <script>
            var btLat;
            var btLong;

            var markers = [];
            var map;

            var routeMarkers = [];

            var rLine;
            function initialize() {
                var mapProp = {

```

```

                center:new
google.maps.LatLng(14.55357406,120.997645850000
03),
                zoom:16,

                mapTypeId:google.maps.MapTypeId.ROADMAP
            };

            map                =                new
google.maps.Map(document.getElementById("google
Map"),mapProp);

            <?php if($add):?>
                <?php foreach($stops as $s):?>
                    markers.push(
                        new google.maps.Marker({
                            position: new
google.maps.LatLng(<?php echo $s ->
stopPointLat;?>,<?php echo $s ->
stopPointLong;?>),
                            map: map
                        })
                    );
                <?php endforeach;?>
            <?php endif;?>

            for(var i = 0; i <
markers.length; i++) {
                var m = markers[i];
                m.addListener('click',
function() {
                    addMarker(this);
                });
            }

            google.maps.event.addListener(map, 'click',
function(event) {
                placeMarker(event.latLng);
            });

            google.maps.event.addDomListener(window,
'load', initialize);
        </script>
    </head>
    <body <?php if(!$add):?> onLoad = "fix();"
<?php endif?>>

        <div class = "container">
            <?php echo validation_errors();?>
            <form class = 'form-horizontal' role
= 'form' onSubmit = "<?php echo ($add ?
'addR()' : 'editR()');?>;return false;">
                <h1 class = "text-center"><span class
= "glyphicon glyphicon-road"></span>
                &nbsp;<?php echo ($add ? 'Add' : 'Edit');?>
                Route</h1>
                <div id = "n"></div>
                <br/>
                <div class = 'col-sm-3'>
                    <h4 class="text-center"><span
class = "glyphicon glyphicon"></span> Route
Information</h4>
                    <div class = "form-group">
                        <label for = "rTo" class =
"control-label col-sm-2">To:</label>
                        <div class = "col-sm-9">

```

```

        <input type = "text"
size = "20" id = "rTo" name = "rTo" class =
"form-control" <?php echo($add ? '' : 'value="'.
$routeInfo['mainInfo']['rTo'] . '');?> required
autofocus>
        </div>
    </div>
    <div class = "form-group">
        <label for = "rFrom" class
= "control-label col-sm-2">From:</label>
        <div class = "col-sm-9">
            <input type = "text"
size = "20" id = "rFrom" name = "rFrom" class =
"form-control" <?php echo($add ? '' : 'value="'.
$routeInfo['mainInfo']['rFrom'] . '');?>
required autofocus>
        </div>
    </div>
    <div class = "form-group">
        <label for = "rDetails"
class = "control-label col-sm-2">Other
Details:</label>
        <div class = "col-sm-9" id
= "h">
            <textarea id =
"rDetails" name = "rDetails" class = "form-
control" rows = "4"><?php echo($add ? '' :
$routeInfo['mainInfo']['rDetails']);?></textare
a>
        </div>
    </div>
</div>
<div class = 'col-sm-4'>
    <h4 class="text-center">Route
Map</h4>
    <div class = "form-group">
        <div id = "googleMap" class
= "col-sm-5" style = "border: 2px solid black;
top: 0px;left:0px; padding-bottom:75%; width:
100%; position:relative;">
        </div>
    </div>
    <div class = "form-group">
        <input type = 'submit'
class = "btn btn-primary btn-block" value =
"<?php echo ($add ? 'Add' : 'Edit');?> Route"/>
    </div>
    <div class = 'col-sm-5' style =
'height: 70%; overflow: auto;'>
        <h4 class="text-center"><span
class = "glyphicon glyphicon-map-
marker"></span> Route Points</h4>
        <table class = "table table-
striped table-hover">
            <thead>
                <th></th>
                <th>Lat</th>
                <th>Lng</th>
                <th></th>
                <th></th>
            </thead>
            <tbody id = "rTable">
            </tbody>
        </table>
    </div>
</form>
</div>

```

```

<script>
function placeMarker(loc) {
    markers.push(
        new google.maps.Marker({
            position: loc,
            map: map
        })
    );
    var m = markers[markers.length-
1];
    m.addListener('click', function()
    {
        addMarker(this);
    });
}

function up(id) {
    var swapTo = id-1;
    if(swapTo >= 0) {
        swap(id, swapTo);
    }
}

function down(id) {
    var swapTo = id+1;
    if(swapTo < routeMarkers.length)
    {
        swap(id, swapTo);
    }
}

function swap(a, b) {
    var routeMarkerA =
routeMarkers[a];
    var routeMarkerB =
routeMarkers[b];
    var temp;

    temp = routeMarkerA;
    routeMarkerA = routeMarkerB;
    routeMarkerB = temp;

    routeMarkers[a] = routeMarkerA;
    routeMarkers[b] = routeMarkerB;

    aPosition =
routeMarkerA.getPosition();
    bPosition =
routeMarkerB.getPosition();

    document.getElementById('tr'+a).childNodes[
1].innerHTML = aPosition.lat().toFixed(8);

    document.getElementById('tr'+a).childNodes[
2].innerHTML = aPosition.lng().toFixed(8);

    document.getElementById('tr'+b).childNodes[
1].innerHTML = bPosition.lat().toFixed(8);

    document.getElementById('tr'+b).childNodes[
2].innerHTML = bPosition.lng().toFixed(8);

    document.getElementById('lat'+a).value =
aPosition.lat();
}

```

```

        document.getElementById('lng'+a).value =
aPosition.lng();

        document.getElementById('lat'+b).value =
bPosition.lat();

        document.getElementById('lng'+b).value =
bPosition.lng();

        var line = [];

        for(var i = 0; i <
routeMarkers.length; i++) {

            line.push(routeMarkers[i].getPosition());
        }

        rLine.setMap(null);
        rLine = null;
        rLine = new
google.maps.Polyline({
            path: line,
            geodesic: true,
            strokeColor: '#FF0000',
            strokeOpacity: 0.80,
            strokeWeight: 2,
            map: map
        });

        function addMarker(m) {
            var p = m.getPosition();
            routeMarkers.push(m);

            var trd =
document.createElement("tr");
            var td1 =
document.createElement("td");
            var td2 =
document.createElement("td");
            var td3 =
document.createElement("td");
            var td4 =
document.createElement("td");
            var td5 =
document.createElement("td");

            td1.innerHTML = "<a href = '#'
onClick = 'up("+(routeMarkers.length-
1)+)'"><span class = 'glyphicon glyphicon-
arrow-up'></span></a><a href = '#' onClick =
'down("+(routeMarkers.length-1)+)'"><span class
= 'glyphicon glyphicon glyphicon-arrow-
down'></span></a>";
            td2.innerHTML =
p.lat().toFixed(8);
            td3.innerHTML =
p.lng().toFixed(8);
            td4.innerHTML = "<a class = 'btn
btn-primary' onClick = 'del(" +
(routeMarkers.length-1) + ")'>Delete</a>";
            td5.innerHTML = "<a class = 'btn
btn-primary' onClick = 'tog(" +
(routeMarkers.length-1) + ")'>View</a>";

            trd.appendChild(td1);
            trd.appendChild(td2);
            trd.appendChild(td3);

            trd.appendChild(td4);
            trd.appendChild(td5);

            document.getElementById('rTable').appendChi
ld(trd);

            var h1 =
document.createElement("input");
            var h2 =
document.createElement("input");

            h1.type = "hidden";
            h2.type = "hidden";
            h1.name =
"lat"+(routeMarkers.length-1);
            h2.name =
"lng"+(routeMarkers.length-1);
            h1.id =
"lat"+(routeMarkers.length-1);
            h2.id =
"lng"+(routeMarkers.length-1);
            h1.value = p.lat();
            h2.value = p.lng();

            document.getElementById('h').appendChild(h1
);
            document.getElementById('h').appendChild(h2
);

            if(routeMarkers.length != 2 &&
routeMarkers.length > 1) {
                var line = [];

                for(var i = 0; i <
routeMarkers.length; i++) {

                    line.push(routeMarkers[i].getPosition());
                }

                rLine.setPath(line);
            }
            else if(routeMarkers.length == 2)
            {
                var line = [];

                for(var i = 0; i <
routeMarkers.length; i++) {

                    line.push(routeMarkers[i].getPosition());
                }

                rLine = new
google.maps.Polyline({
                    path: line,
                    geodesic: true,
                    strokeColor: '#FF0000',
                    strokeOpacity: 0.80,
                    strokeWeight: 2,
                    map: map
                });
            }
        }

        function del(n) {

```

```

        for(var i = 0; i <
routeMarkers.length; i++) {
            routeMarkers[i].setAnimation(null);
        }
        routeMarkers.splice(n,1);

        var e =
document.getElementById('tr'+n);
        e.parentNode.removeChild(e);
        var h1 =
document.getElementById('lat'+n);
        var h2 =
document.getElementById('lng'+n);
        h1.parentNode.removeChild(h1);
        h2.parentNode.removeChild(h2);

        for(var i = n; i <
routeMarkers.length; i++) {

            document.getElementById('tr'+(i+1)).childNo
des[0].innerHTML = i+1;

            document.getElementById('tr'+(i+1)).childNo
des[3].innerHTML = "<a class = 'btn btn-
primary' onClick = 'del(" + i +
")'>Delete</a>";

            document.getElementById('tr'+(i+1)).childNo
des[4].innerHTML = "<a class = 'btn btn-
primary' onClick = 'tog(" + i +
")'>View</a>";

            document.getElementById('lat'+(i+1)).name =
"lat"+i;

            document.getElementById('lng'+(i+1)).name =
"lng"+i;

            document.getElementById('lat'+(i+1)).id =
"lat"+i;

            document.getElementById('lng'+(i+1)).id =
"lng"+i;

            document.getElementById('tr'+(i+1)).id =
'tr'+i;
        }

        if(routeMarkers.length > 0 &&
rLine != null) {
            var line = [];

            for(var i = 0; i <
routeMarkers.length; i++) {

                line.push(routeMarkers[i].getPosition());
            }

            rLine.setPath(line);
        }

        function tog(n) {
            for(var i = 0; i <
routeMarkers.length; i++) {
                routeMarkers[i].setAnimation(null);
            }

            routeMarkers[n].setAnimation(google.maps.An
imation.BOUNCE);
        }

        <?php if($add):?>
            function addR() {
                var rTo =
document.getElementById('rTo').value;
                var rFrom =
document.getElementById('rFrom').value;
                var rDetails =
document.getElementById('rDetails').value;

                if(routeMarkers.length >= 2) {
                    var xmlhttp;
                    var resp;

                    if (window.XMLHttpRequest)
                    {
                        xmlhttp=new
XMLHttpRequest();
                    }
                    else {
                        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
                    }

                    xmlhttp.onreadystatechange=function() {
                        if
(xmlhttp.readyState==4 && xmlhttp.status==200)
                        {
                            resp =
xmlhttp.responseText;

                            if(resp == "Route
Added") {

                                document.getElementById("n").className =
"alert alert-success";
                            }
                            else {

                                document.getElementById("n").className =
"alert alert-danger";
                            }

                            document.getElementById("n").innerHTML =
resp;
                        }
                    }

                    var parameters =
"rTo="+rTo+"&rFrom="+rFrom+"&rDetails="+rDetail
s;

                    var i = 0;

                    while(document.getElementById('lat'+i) !=
null) {
                        parameters +=
"&lat"+i+"="+document.getElementById('lat'+i).v
alue+"&lng"+i+"="+document.getElementById('lng'
+i).value;
                        i++;
                    }
                }
            }
        }

```

```

xmlhttp.open("POST","./add", true);

xmlhttp.setRequestHeader("ajaxOnly","yes");

xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
xmlhttp.send(parameters);
    }
    else {

document.getElementById("n").className =
"alert alert-danger";

document.getElementById("n").innerHTML =
"Please fill out the necessary information";
return false;
    }
}
<?php else: ?>
function editR() {
var rTo =
document.getElementById('rTo').value;
var rFrom =
document.getElementById('rFrom').value;
var rDetails =
document.getElementById('rDetails').value;
var rID = <?php echo
$routeID;?>

if(routeMarkers.length >= 2) {
var xmlhttp;
var resp;

if (window.XMLHttpRequest)
{
xmlhttp=new
XMLHttpRequest();
    }
    else {
xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }

xmlhttp.onreadystatechange=function() {
if
(xmlhttp.readyState==4 && xmlhttp.status==200)
{
resp =
xmlhttp.responseText;
if(resp == "Route
Updated") {

document.getElementById("n").className =
"alert alert-success";
    }
    else {

document.getElementById("n").className =
"alert alert-danger";
    }

document.getElementById("n").innerHTML =
resp;
    }
    }
}

```

```

var parameters =
"rID="+rID+"&rTo="+rTo+"&rFrom="+rFrom+"&rDetails="+rDetails;

var i = 0;

while(document.getElementById('lat'+i) !=
null) {
parameters +=
"&lat"+i+"="+document.getElementById('lat'+i).v
alue+"&lng"+i+"="+document.getElementById('lng'
+i).value;
i++;
}

xmlhttp.open("POST","./edit", true);

xmlhttp.setRequestHeader("ajaxOnly","yes");

xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
xmlhttp.send(parameters);
    }
    else {

document.getElementById("n").className =
"alert alert-danger";

document.getElementById("n").innerHTML =
"Please fill out the necessary information";
return false;
    }
}
<?php endif;?>
function searchMarker(lat, lng) {
var id = 0;
for(id = 0; id < markers.length;
id++) {
var l =
markers[id].getPosition();
if(lat == l.lat() && lng ==
l.lng())
return id;
}
return -1;
}

<?php if(!$add):?>
function fix() {
<?php for($i = 0; $i <
count($routeInfo['routePoints']); $i++):?>
var l1 = <?php echo
$routeInfo['routePoints'][$i]['lat'];?>;
var l2 = <?php echo
$routeInfo['routePoints'][$i]['lng'];?>;
placeMarker(new
google.maps.LatLng(l1,l2));

addMarker(markers[markers.length-1]);
<?php endforeach;?>
<?php foreach($stops as $s):?>
if(searchMarker(<?php echo
$s -> stopPointLat;?>, <?php echo $s ->
stopPointLong;?>) == -1) {
markers.push(
new
google.maps.Marker({

```

```

        position: new
google.maps.LatLng(<?php echo $s ->
stopPointLat;?>,<?php echo $s ->
stopPointLong;?>),
        map: map
    })
    );
    var m =
markers[markers.length-1];
    m.addListener('click',
function() {
        addMarker(this);
    });
    <?php endforeach;?>
}
<?php endif;?>
</script>

</body>
</html>
view_busMap.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
    <script
src="http://maps.googleapis.com/maps/api/js"></
script>

    <script>
        var map;
        var markers = [];
        var buses = [];
        var bPlateNo = [];
        var myCenter = new
google.maps.LatLng(14.5980716,120.9796513);
        var focusPoint;
        function initialize() {
            var mapProp = {
                center: myCenter,
                zoom: 7,
                mapTypeId:
google.maps.MapTypeId.ROADMAP
            };
            map = new
google.maps.Map(document.getElementById("map"),
mapProp);

            <?php foreach($busData as $b):?>
                buses.push(['<?php echo $b ->
busPlateNo;?>', '<?php echo $b ->
busModel;?>', '<?php echo $b -> busLat;?>', '<?php
echo $b -> busLong;?>']);

```

```

                bPlateNo.push('<?php echo $b -
> busPlateNo;?>');
            <?php endforeach;?>

            for(var i = 0; i < buses.length;
i++) {
                var latlng = new
google.maps.LatLng(buses[i][2],buses[i][3]);
                var marker = new
google.maps.Marker({
                    map: map,
                    position: latlng
                });
                var contentString = "Bus Plate
No: " + buses[i][0] + "<br/>Bus Model: " +
buses[i][1];
                var infowindow = new
google.maps.InfoWindow({
                    content: contentString
                });

                google.maps.event.addListener(marker,
'click', (function(marker, infowindow){
                    return function()
{infowindow.open(map, marker);};
                })(marker, infowindow));
                markers.push(marker);
            }

            google.maps.event.addDomListener(window,
'load', initialize);
        </script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <style>
            body {
                background-color: #D7D7D7;
            }
        </style>

        <title>Bus Map</title>
    </head>
    <body onLoad = "startWorker();">
        <div class = "container">
            <h3 class = "text-center"><span class
= "glyphicon glyphicon-exclamation-
sign"></span> Bus Map</h3>
            <div id = "result"></div>
            <form class = 'form-inline' role =
'form' onSubmit = 'setFocus(); return false;'>
                <div class = "form-group col-sm-
offset-4">
                    <div>
                        <input type = "text" size =
"10" id = "bpNo" class = "form-control" name =
"bpNo" placeholder = "Plate Number" style =
"width: 300px;">
                        <button type = "submit"
class = "btn btn-primary">Search Bus</button>
                    </div>
                </div>
            </form>
            <div id = "map" style = "width: 100%;
height: 500px;">

```

```

    </div>
</div>

<script>
    var w;

    function startWorker() {
        if(typeof(Worker) !==
"undefined") {
            if(typeof(w) == "undefined") {
                w = new
Worker("../scripts/update_map.js");
            }
            w.onmessage = function(event)
{
                var locationArray =
event.data[1];
                for(var i = 0; i <
locationArray.length; i++) {
                    var ind =
bPlateNo.indexOf(locationArray[i].busPlateNo);
                    var latlng = new
google.maps.LatLng(locationArray[i].busLat, loca
tionArray[i].busLong);

                    markers[ind].setPosition(latlng);
                }
                if(focusPoint != null) {
                    map.panTo(focusPoint);
                }
                w.postMessage("Hello World");
            } else {

                document.getElementById('result').className
= "alert alert-danger";

                document.getElementById('result').innerHTML
= "Sorry, your web browser doesn't support web
workers.";
            }
        }

        function setFocus() {
            var bPNo =
document.getElementById('bpNo').value;
            var ind = bPlateNo.indexOf(bPNo);
            for(var i = 0; i <
markers.length; i++) {
                markers[i].setMap(null);
            }
            if(ind >= 0) {

                document.getElementById('result').className
= "";

                document.getElementById('result').innerHTML
= "";
                focusPoint = new
google.maps.LatLng(buses[ind][2], buses[ind][3])
;
                markers[ind].setMap(map);
                map.panTo(focusPoint);
            }
            else {

                document.getElementById('result').className
= "alert alert-danger";

```

```

        document.getElementById('result').innerHTML
= "Bus not in the database";
        focusPoint = null;
        for(var i = 0; i <
markers.length; i++) {
            markers[i].setMap(map);
        }
        map.panTo(myCenter);
    }
}
</script>
</body>
</html>
view_complaint.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

    <meta charset = "utf-8">
    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

    <style>
        .carousel-inner > .item > img,
        .carousel-inner > .item > a > img {
            width: 80%;
            margin: auto;
        }
        body {
            background-color: #D7D7D7;
        }
        .dl-horizontal {
            font-size: 18;
        }
    </style>

    <title>Complaint Information</title>
</head>
<body>
    <div class = "container">
        <h1 class = "text-center">Complaint
Information</h1>
        <br/><br/><br/><br/>
        <div id = "cInfo">
            <dl class = "dl-horizontal">
                <?php foreach($complaintData
as $c):?>
                    <dt>Complaint ID:</dt>
                    <dd><?php echo $c ->
complaintID;?></dd>

```

```

        <dt>Complaint Sender:</dt>
        <dd><?php echo ($c ->
complaintSender != "") ? $c -> complaintSender
: "Anonymous";?></dd>
        <dt>Complaint Date:</dt>
        <dd><?php echo $c ->
complaintDate;?></dd>
        <dt>Complaint Issue:</dt>
        <dd><?php echo $c ->
complaintIssue;?></dd>
        <dt>Complaint Details:</dt>
        <br/>
        <dd><?php echo $c ->
complaintDetails;?></dd>
        <?php endforeach;?>
    </dl>
    <div class = "text-center">
        <a href = "." class = "btn
btn-primary">Return to complaint List</a>
    </div>
</div>
</body>
</html>
view_personnel.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>
        <link
            rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">
        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">
        <style>
            .carousel-inner > .item > img,
            .carousel-inner > .item > a > img {
                width: 80%;
                margin: auto;
            }
            body {
                background-color: #D7D7D7;
            }
            .dl-horizontal {
                font-size: 18;
            }
        </style>
        <title>Personnel Information</title>
    </head>
    <body>
        <div class = "container-fluid col-sm-6">

```

```

        <h1 class = "text-center"><span class
= "glyphicon glyphicon-user"></span> Personnel
Information</h1>
        <dl class = "dl-horizontal">
            <?php foreach($personnel as
$p):?>
                <?php echo img(array("src" =>
$p -> busPersonnelProfilePath, "class" => "img-
responsive center-block", "style" =>
"width:192px;height:192px;border:3px solid
black;"));?>
                <dt>Personnel ID:</dt>
                <dd><?php echo $pID;?></dd>
                <dt>Name:</dt>
                <dd><?php echo $p ->
busPersonnelLName . " " . $p ->
busPersonnelFName . " " . $p ->
busPersonnelMName;?></dd>
                <dt>SSN:</dt>
                <dd><?php echo $p ->
busPersonnelSSN;?></dd>
                <dt>Address:</dt>
                <dd><?php echo $p ->
busPersonnelAddress;?></dd>
                <dt>Birthday:</dt>
                <dd><?php echo $p ->
busPersonnelBDay;?></dd>
                <dt>Bus Company:</dt>
                <dd><?php echo $p ->
busCompanyName;?></dd>
                <dt>Personnel Type:</dt>
                <dd><?php echo $p ->
busPersonnelType;?></dd>
                <?php if($p ->
busPersonnelType == 'Driver'):?>
                    <dt>License No.:</dt>
                    <dd><?php echo $p ->
licenseNo;?></dd>
                    <dt>ExpirationDate:</dt>
                    <dd><?php echo $p ->
expirationDate;?></dd>
                <?php endif;?>
            <?php endforeach;?>
        </dl>
    </div>
</body>
</html>
view_report.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>
        <link
            rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">
        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
        <meta charset = "utf-8">

```



```

    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

    <style>
        body {
            background-color: #D7D7D7;
        }

        #list {
            height: 85%;
            overflow: auto;
        }
    </style>

    <title>View Report</title>
</head>
<body>
    <div class = "container">
        <h1 class = "text-center"><span class
= "glyphicon glyphicon-file"></span> Monthly
Report</h1>
        <h4 class = "text-center">
            <?php switch($report['rDate'] ->
reportMonth) {
                case 1: echo "Jan"; break;
                case 2: echo "Feb"; break;
                case 3: echo "Mar"; break;
                case 4: echo "Apr"; break;
                case 5: echo "May"; break;
                case 6: echo "Jun"; break;
                case 7: echo "Jul"; break;
                case 8: echo "Aug"; break;
                case 9: echo "Sept"; break;
                case 10: echo "Oct"; break;
                case 11: echo "Nov"; break;
                case 12: echo "Dec"; break;
            }
            ?>

            <?php echo $report['rDate'] ->
reportYear?>
        </h4>
        <br/>

        <div class = "table-responsive">
            <table class = "table table-
hover" id = "rlist">
                <thead>
                    <tr>
                        <th>Route From</th>
                        <th>Route To</th>
                        <th>Average          Travel
Time</th>
                        <th>Total          No.      of
Trips</th>
                    </tr>
                </thead>
                <tbody id = "table-body">
                    <?php
if($report['reportLines'] != null):?>
                    <?php
foreach($report['reportLines'] as $r):?>
                        <tr>
                            <td><?php echo $r
-> routeFrom;?></td>
                            <td><?php echo $r
-> routeTo;?></td>
                            <td><?php echo $r
-> averageTravelTime;?></td>

```

```

                            <td><?php echo $r
-> totalTripCount;?></td>
                        </tr>
                    <?php endforeach;?>
                    <?php endif;?>
                </tbody>
            </table>
        </div>
    </div>
</body>

<script>
</script>
</html>
view_user.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>

        <link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <style>
            .carousel-inner > .item > img,
            .carousel-inner > .item > a > img {
                width: 80%;
                margin: auto;
            }

            body {
                background-color: #D7D7D7;
            }

            .dl-horizontal {
                font-size: 18;
            }
        </style>

        <title>User Information</title>
    </head>
    <body>
        <div class = "container-fluid col-sm-6">
            <h1 class = "text-center"><span class
= "glyphicon glyphicon-user"></span> User
Information</h1>
            <dl class = "dl-horizontal">
                <dt>User ID:</dt>
                <dd><?php echo $user ->
userID;?></dd>
                <dt>Username:</dt>

```

```

        <dd><?php echo $user ->
uName;?></dd>
        <dt>User Type:</dt>
        <dd>
            <?php if($user -> uType ==
"sAdmin"):?>
                System Administrator
            <?php else:?>
                Bus Terminal Administrator
            <dt>Bus Terminal:</dt>
            <dd><?php echo $user ->
stopPointName;?></dd>
            <?php endif;?>
        </dd>
    </dl>
</div>

</body>
</html>
viewall_buses.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>
        <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
        <script
src="http://maps.googleapis.com/maps/api/js"></
script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <style>
            body {
                background-color: #D7D7D7;
            }

            #list {
                height: 85%;
                overflow: auto;
            }

            .headButton {
                width: 300px;
            }
        </style>

        <title>Buses</title>
    </head>
    <body>
        <?php if($isAdmin):?>
            <div class = "container col-sm-6" id
= "list">
                <?php else:?>
                    <div class = "container" id = "list">

```

```

            <?php endif;?>
            <h1 class = "text-center"><span class
= "glyphicon glyphicon-bed"></span> Bus
List</h1>
            <div id = "notice"></div>
            <?php if(isset($usertype)): ?>
                <?php if($usertype
==
'sAdmin'):?>
                    <div class = "text-center">
                        <a href = "#" onClick =
"add()" class = "btn btn-primary
headButton"><span class = "glyphicon glyphicon-
plus"></span> Add Bus</a>
                        <a href = "buses/busMap"
class = "btn btn-primary headButton"><span
class = "glyphicon glyphicon-
screenshot"></span> Bus Map</a>
                    </div>
                <?php elseif($usertype
==
'btAdmin'):?>
                    <div class = "text-center">
                        <a href = "buses/busMap"
class = "btn btn-primary headButton"><span
class = "glyphicon glyphicon-
screenshot"></span> Bus Map</a>
                    </div>
                <?php endif;?>
            <?php endif;?>
            <?php if($isAdmin):?>
                <div class = "table-responsive">
                    <?php else:?>
                        <div class = "table-responsive
col-sm-offset-4 col-sm-4 text-center">
                            <?php endif;?>
                            <table class = "table table-
hover">
                                <thead>
                                    <tr>
                                        <?php if($isAdmin):?>
                                            <th>Bus
Company
Name</th>
                                        <?php endif;?>
                                        <th>Plate #</th>
                                        <?php if($isAdmin):?>
                                            <th></th>
                                            <th></th>
                                        <?php
elseif($bTerminalID != null):?>
                                            <th></th>
                                        <?php endif;?>
                                    </tr>
                                </thead>
                                <tbody id = "table-body">
                                    <?php foreach($buses as
$b):?>
                                        <tr id = "tr<?php echo
$b -> busPlateNo;?>" class="<?php echo (($b ->
busAvailable && !($b -> busSuspended)) ? "info"
: "danger");?>">
                                            <?php
if($isAdmin):?>
                                                <td><?php echo $b
-> busCompanyName;?></td>
                                                <?php endif;?>
                                                <td><?php echo $b ->
busPlateNo;?></td>
                                                <?php
if($isAdmin):?>

```

```

        <td><a href = "#"
onClick = "set('<?php echo $b ->
busPlateNo;?>')" class = "btn btn-primary" id =
"link<?php echo $b -> busPlateNo;?>" data-
toggle = "modal" data-target = "#<?php echo
(!($b -> busSuspended) ? "s" :
"r");?>confirm"><?php echo (!($b ->
busSuspended) ? "Suspend" : "Reinstate");?>
Bus</a></td>

        <td><a href = "#"
onClick = "set('<?php echo $b ->
busPlateNo;?>')" class = "btn btn-primary"
data-toggle = "modal" data-target =
"#dconfirm">Delete Bus</a></td>
        <?php
elseif($bTerminalID != null):?>
        <td><a href = "#"
onClick = "setA('<?php echo $b ->
busPlateNo;?>',<?php echo ($b -> busAvailable)
? '\a\' : '\u\'';?>)" class = "btn btn-
primary">Available / Unavailable</a></td>
        <?php endif;?>
    </tr>
    <?php endforeach;?>
</tbody>
</table>
</div>

    <?php if($isAdmin):?>
    <div id = "sconfirm" class =
"modal fade" role = "dialog">
        <div class = "modal-dialog
modal-sm">
            <div class = "modal-
content">
                <div class="modal-
header">
                    <button
type="button" class="close" data-
dismiss="modal">&times;</button>
                    <h4 class="modal-
title">Suspend Bus</h4>
                </div>
                <div class="modal-body">
                    <p>Are you sure you
want to suspend this bus?</p>
                </div>
                <div class="modal-
footer">
                    <button onClick =
"suspend();" type="button" class="btn btn-
default" data-dismiss="modal">Yes</button>
                    <button
type="button" class="btn btn-default" data-
dismiss="modal">No</button>
                </div>
            </div>
        </div>
    </div>

    <div id = "rconfirm" class =
"modal fade" role = "dialog">
        <div class = "modal-dialog
modal-sm">
            <div class = "modal-
content">
                <div class="modal-
header">

```

```

                    <button
type="button" class="close" data-
dismiss="modal">&times;</button>
                    <h4 class="modal-
title">Reinstate Bus</h4>
                </div>
                <div class="modal-body">
                    <p>Are you sure you
want to reinstate this bus?</p>
                </div>
                <div class="modal-
footer">
                    <button onClick =
"reinstate();" type="button" class="btn btn-
default" data-dismiss="modal">Yes</button>
                    <button
type="button" class="btn btn-default" data-
dismiss="modal">No</button>
                </div>
            </div>
        </div>
    </div>

    <div id = "dconfirm" class =
"modal fade" role = "dialog">
        <div class = "modal-dialog
modal-sm">
            <div class = "modal-
content">
                <div class="modal-
header">
                    <button
type="button" class="close" data-
dismiss="modal">&times;</button>
                    <h4 class="modal-
title">Delete Bus</h4>
                </div>
                <div class="modal-body">
                    <p>Are you sure you
want to delete this record?</p>
                </div>
                <div class="modal-
footer">
                    <button onClick =
"del();" type="button" class="btn btn-default"
data-dismiss="modal">Yes</button>
                    <button
type="button" class="btn btn-default" data-
dismiss="modal">No</button>
                </div>
            </div>
        </div>
    </div>

    <?php if($isAdmin):?>
    <div id = "side">
    </div>
    <?php endif;?>
</body>

<?php if($isAdmin):?>
<script>
    var buses = [];
    var b = [];
    var repeat;
    var idToEdit;

```

```

function set(id) {
    idToEdit = id;
}

<?php foreach($busData as $b):?>
    buses.push("<?php echo $b ->
busPlateNo;?>");
<?php endforeach;?>

<?php foreach($buses as $b):?>
    b.push("<?php echo $b ->
busPlateNo;?>");
<?php endforeach;?>

function suspend() {
    if (window.XMLHttpRequest) {
        xmlhttp=new XMLHttpRequest();
    }
    else {
        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }

    xmlhttp.onreadystatechange=function() {
        if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
            resp =
xmlhttp.responseText;
            if(resp == "Success") {

                document.getElementById("notice").className
= "alert alert-success";

                document.getElementById("notice").innerHTML
= "Bus Suspended.";

                document.getElementById("tr"+idToEdit).clas
sName = "danger";

                document.getElementById("link"+idToEdit).se
tAttribute('data-target', '#rconfirm');

                document.getElementById("link"+idToEdit).in
nerHTML = "Reinstate Bus";
            }
            else {

                document.getElementById("notice").className
= "alert alert-danger";

                document.getElementById("notice").innerHTML
= "ERROR.";
            }
        }
    }
    var param =
"id="+idToEdit+"&status=Suspended";

    xmlhttp.open("POST", "buses/setStatus", true)
;

    xmlhttp.setRequestHeader("ajaxOnly", "yes");

    xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
    xmlhttp.send(param);
}

```

```

function del() {
    if (window.XMLHttpRequest) {
        xmlhttp=new XMLHttpRequest();
    }
    else {
        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }

    xmlhttp.onreadystatechange=function() {
        if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
            resp =
xmlhttp.responseText;
            if(resp == "Success") {

                b.splice(b.indexOf(idToEdit),1);
                var trToDel =
document.getElementById("tr"+idToEdit);

                trToDel.parentNode.removeChild(trToDel);

                document.getElementById("notice").className
= "alert alert-success";

                document.getElementById("notice").innerHTML
= "Bus Deleted.";
            }
            else {

                document.getElementById("notice").className
= "alert alert-danger";

                document.getElementById("notice").innerHTML
= "ERROR.";
            }
        }
    }
    var param = "id="+idToEdit;

    xmlhttp.open("POST", "buses/deleteBus", true)
;

    xmlhttp.setRequestHeader("ajaxOnly", "yes");

    xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
    xmlhttp.send(param);
}

function reinstate() {
    if (window.XMLHttpRequest) {
        xmlhttp=new XMLHttpRequest();
    }
    else {
        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }

    xmlhttp.onreadystatechange=function() {
        if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
            resp =
xmlhttp.responseText;
            if(resp == "Success") {

                document.getElementById("notice").className
= "alert alert-success";
            }
        }
    }
}

```

```

    document.getElementById("notice").innerHTML
= "Bus Reinstated.";

    document.getElementById("tr"+idToEdit).clas
sName = "info";

    document.getElementById("link"+idToEdit).se
tAttribute('data-target', '#sconfirm');

    document.getElementById("link"+idToEdit).in
nerHTML = "Suspend Bus";
    }
    else {

    document.getElementById("notice").className
= "alert alert-danger";

    document.getElementById("notice").innerHTML
= "ERROR.";
    }
    }
    var param =
'id="+idToEdit+"&status=Active";

    xmlhttp.open("POST", "buses/setStatus", true)
;

    xmlhttp.setRequestHeader("ajaxOnly", "yes");

    xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
    xmlhttp.send(param);
    }

    function add() {
    if (window.XMLHttpRequest) {
        xmlhttp=new XMLHttpRequest();
    }
    else {
        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }

    xmlhttp.onreadystatechange=function() {
        if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
            resp =
xmlhttp.responseText;

            document.getElementById("side").innerHTML =
resp;
        }
    }

    xmlhttp.open("GET", "buses/addBus", true);

    xmlhttp.setRequestHeader("ajaxOnly", "yes");
    xmlhttp.send();
    }

    function addBus() {
        var bpNo =
document.getElementById("bpNo").value;

        if(document.getElementById("validator").inn
erHTML == "") {

```

```

        var bpNo =
document.getElementById("bpNo").value;
        var busCompanyID =
document.getElementById("busCompanyID").value;
        if (window.XMLHttpRequest) {
            xmlhttp=new
XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }

        xmlhttp.onreadystatechange=function() {
            if (xmlhttp.readyState==4
&& xmlhttp.status==200) {
                resp =
xmlhttp.responseText;
                if(resp == "Success") {

                    document.getElementById("n").className =
"alert alert-success";

                    document.getElementById("n").innerHTML =
"Bus Added. Refreshing Page";
                    location.reload();
                }
                else {

                    document.getElementById("n").className =
"alert alert-danger";

                    document.getElementById("n").innerHTML =
"ERROR";
                }
            }
        }
        var param =
"bpNo="+bpNo+"&busCompanyID="+busCompanyID;

        xmlhttp.open("POST", "buses/ab", true);

        xmlhttp.setRequestHeader("ajaxOnly", "yes");

        xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
        xmlhttp.send(param);
    }
    else if(!repeat){

        document.getElementById("n").className =
"alert alert-danger";

        document.getElementById("n").innerHTML =
"Bus is not yet registered";
    }
    else {

        document.getElementById("n").className =
"alert alert-danger";

        document.getElementById("n").innerHTML =
"There is an existing record in the database.";
    }
}

    function check() {
        var pNo =
document.getElementById("bpNo").value;

```

```

        var existing = false;
        repeat = false;
        for(var i = 0; i < b.length; i++)
    {
        if(pNo == b[i]) {
            repeat = true;
            break;
        }
    }
    for(var i = 0; i < buses.length;
i++) {
        if(buses[i] == pNo) {
            existing = true;
            break;
        }
    }

    document.getElementById("validator").innerH
TML = "";
        if(!existing)

        document.getElementById("validator").innerH
TML += "The plate number is not yet
registered.<br>";
            if(repeat)

        document.getElementById("validator").innerH
TML += "Plate number is already stored in the
database.";
    }
    </script>
    <?php elseif($bTerminalID != null):?>
    <script>
        function setA(bpno,av) {
            if (window.XMLHttpRequest) {
                xmlhttp=new XMLHttpRequest();
            }
            else {
                xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
            }

            xmlhttp.onreadystatechange=function() {
                if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                    resp
                    =
xmlhttp.responseText;
                    if(resp == "Success") {
                        location.reload();
                    }
                    else {

        document.getElementById("notice").className
= "alert alert-danger";
                            if(resp == "Fail")

        document.getElementById("notice").innerHTML
= "ERROR.";
                            else

        document.getElementById("notice").innerHTML
= resp;
                            }
                        }
                    }
                }
            }
            var param;
            if(av == 'a')
                param
                =
                "id="+bpno+"&available=false";
                else
                param
                =
                "id="+bpno+"&available=true";

            xmlhttp.open("POST","buses/setStatusA",true
);
            xmlhttp.setRequestHeader("ajaxOnly","yes");
            xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
            xmlhttp.send(param);
        }
    </script>
    <?php endif;?>

</html>
viewall_companies.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

        <link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <style>
            body {
                background-color: #D7D7D7;
            }

            #list {
                height: 85%;
                overflow: auto;
            }
        </style>

        <title>Bus Companies</title>
    </head>
    <body>
        <div class = "container col-md-
offset-3 col-md-6" id = "list">
            <h1 class = "text-center"><span class
= "glyphicon glyphicon-briefcase"></span> Bus
Companies List</h1>
            <div id = "notice"></div>
            <?php if(isset($usertype)): ?>
                <?php
                if($usertype
                ==
                'sAdmin'):?>
                    <a href = "#" class = "btn
btn-primary btn-block" data-toggle = "modal"
data-target = "#addCompany"><span class =
"glyphicon glyphicon-plus"></span> Add Bus
Company </a>

```

```

                <?php endif;?>
            <?php endif;?>
            <div class = "table-responsive">
                <table class = "table table-
hover">
                    <thead>
                        <tr>
                            <th>Bus
Company
Name</th>
                            <?php
if(isset($usertype)): ?>
                                <?php if($usertype
== 'sAdmin'):?>
                                    <th></th>
                                    <th></th>
                                    <th></th>
                                <?php endif;?>
                            <?php endif;?>
                        </tr>
                    </thead>
                    <tbody id = "table-body">
                        <?php foreach($busCompanies
as $b): ?>
                            <?php if($b ->
busCompanyStatus == 'Active'):?>
                                <tr id = "tr<?php
echo $b -> busCompanyID;?>" class = 'success'>
                                    <?php else:??>
                                        <tr id = "tr<?php
echo $b -> busCompanyID;?>" class = 'danger'>
                                            <?php endif;?>
                                                <td><a href =
"#"><?php echo $b -> busCompanyName;?></a></td>
                                                    <?php
if(isset($usertype)): ?>
                                                        <?php
if($usertype == 'sAdmin'):?>
                                                            <td><a href =
"#" onClick = "setEdit(<?php echo $b ->
busCompanyID;?>)" class = "btn btn-primary"
data-toggle = "modal" data-target =
"#editCompany"><span class = "glyphicon
glyphicon-edit"></span> Update Record</a></td>
                                                                <?php if($b ->
busCompanyStatus == 'Active'):?>
                                                                    <td><a href
= "#" onClick = "setEdit(<?php echo $b ->
busCompanyID;?>)" class = "btn btn-primary"
data-toggle = "modal" data-target =
"#sconfirm"><span class = "glyphicon
glyphicon-ban-circle"></span> Suspend</a></td>
                                                                                                    <?php else:??>
                                                                                                        <td><a href
= "#" onClick = "setEdit(<?php echo $b ->
busCompanyID;?>)" class = "btn btn-primary"
data-toggle = "modal" data-target =
"#rconfirm"><span class = "glyphicon
glyphicon-ok-circle"></span> Reinstate</a></td>
                                                                                                            <?php endif;?>
                                                                                                                <td><a href =
"#" onClick = "setEdit(<?php echo $b ->
busCompanyID;?>)" class = "btn btn-primary"
data-toggle = "modal" data-target =
"#dconfirm"><span class = "glyphicon
glyphicon-minus"></span> Delete Record</a></td>
                                                                                                                    <?php endif;?>
                                                                                                                        <?php endif;?>
                                                                                                                            </tr>
                                                                                                                        <?php endforeach;?>
                    </tbody>
                </table>
            </div>

```

```

        </tbody>
    </table>
</div>

    <div id = "addCompany" class = "modal
fade" role = "dialog">
        <div class = "modal-dialog modal-
lg">
            <div class = "modal-content">
                <div class="modal-header">
                    <button type="button"
data-
dismiss="modal">&times;</button>
                    <h4 class="modal-
title">Add Bus Company</h4>
                </div>
                <?php echo
validation_errors();?>
                <form class = "form-
horizontal" role = 'form' onSubmit = 'add();
return false;?'>
                    <div class="modal-body">
                        <div id = "n"></div>
                        <br/>
                        <div class = "form-
group">
                            <label for =
"bcName" class = "control-label col-sm-4">Bus
Company Name <span id = 'notif'></span></label>
                            <div class =
"col-sm-5">
                                <input onKeyUp
= "checkAvailability();" type = "text" size =
"20" id = "bcName" name = "bcName" class =
"form-control" required autofocus>
                            </div>
                        </div>
                        <span class =
"glyphicon" style = "content: \e247;"></span>
                    </div>
                    <div class="modal-footer">
                        <button type = "submit"
class = "btn btn-primary">Add Bus
Company</button>
                    </div>
                </form>
            </div>
        </div>
    </div>

    <div id = "editCompany" class =
"modal fade" role = "dialog">
        <div class = "modal-dialog modal-
lg">
            <div class = "modal-content">
                <div class="modal-header">
                    <button type="button"
data-
dismiss="modal">&times;</button>
                    <h4 class="modal-
title">Edit Bus Company</h4>
                </div>
                <?php echo
validation_errors();?>
                <form class = "form-
horizontal" role = 'form' onSubmit = 'edit();
return false;?'>
                    <div class="modal-body">
                        <div id = "en"></div>
                    </div>
                </form>
            </div>
        </div>
    </div>

```

```

        <br/>
        <div class = "form-
group">
            <label for =
"EbcName" class = "control-label col-sm-4">Bus
Company Name <span id =
'Enotif'></span></label>
            <div class =
"col-sm-5">
                <input onKeyUp
= "EcheckAvailability();" type = "text" size =
"20" id = "EbcName" name = "EbcName" class =
"form-control" required autofocus>
            </div>
            <div>
                <span class =
"glyphicon" style = "content: \e247;"></span>
            </div>
            <div class="modal-footer">
                <button type = "submit"
class = "btn btn-primary">Edit Bus
Company</button>
            </div>
        </form>
    </div>
</div>
    <div id = "dconfirm" class = "modal
fade" role = "dialog">
        <div class = "modal-dialog modal-
sm">
            <div class = "modal-content">
                <div class="modal-header">
                    <button type="button"
class="close"
dismiss="modal">&times;</button>
                    <h4 class="modal-
title">Delete Bus Company</h4>
                </div>
                <div class="modal-body">
                    <p>Are you sure you want
to delete this company?</p>
                </div>
                <div class="modal-footer">
                    <button onClick =
"del();" type="button" class="btn btn-default"
data-dismiss="modal">Yes</button>
                    <button type="button"
class="btn btn-default" data-
dismiss="modal">No</button>
                </div>
            </div>
        </div>
    </div>
    <div id = "sconfirm" class = "modal
fade" role = "dialog">
        <div class = "modal-dialog modal-
sm">
            <div class = "modal-content">
                <div class="modal-header">
                    <button type="button"
class="close"
dismiss="modal">&times;</button>
                    <h4 class="modal-
title">Suspend Bus Company</h4>
                </div>
                <div class="modal-body">

```

```

        <p>Are you sure you want
to suspend this company?</p>
            </div>
            <div class="modal-footer">
                <button onClick =
"suspend();" type="button" class="btn btn-
default" data-dismiss="modal">Yes</button>
                <button type="button"
class="btn btn-default" data-
dismiss="modal">No</button>
            </div>
        </div>
    </div>
    <div id = "rconfirm" class = "modal
fade" role = "dialog">
        <div class = "modal-dialog modal-
sm">
            <div class = "modal-content">
                <div class="modal-header">
                    <button type="button"
class="close"
dismiss="modal">&times;</button>
                    <h4 class="modal-
title">Reinstate Bus Company</h4>
                </div>
                <div class="modal-body">
                    <p>Are you sure you want
to reinstate this company?</p>
                </div>
                <div class="modal-footer">
                    <button onClick =
"reinstate();" type="button" class="btn btn-
default" data-dismiss="modal">Yes</button>
                    <button type="button"
class="btn btn-default" data-
dismiss="modal">No</button>
                </div>
            </div>
        </div>
    </div>
</body>
<script>
    var xmlhttp;
    var resp;

    var idToEdit;

    function setEdit(id) {
        idToEdit = id;

        document.getElementById("EbcName").value =
"";

        document.getElementById("Enotif").className
= "";

        document.getElementById("en").innerHTML =
"";

        document.getElementById("en").className =
"";
    }

    function checkAvailability() {

```



```

        var name =
document.getElementById("bcName").value;
        if(name != "")
            ca();
        else

        document.getElementById("notif").className
= "";
    }

    function EcheckAvailability() {
        var name =
document.getElementById("EbcName").value;
        if(name != "")
            eca();
        else

        document.getElementById("Enotif").className
= "";
    }

    function eca() {
        var name =
document.getElementById("EbcName").value;
        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
{
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                resp = xmlhttp.responseText;
                if(resp == "Available")

                document.getElementById("Enotif").className
= "glyphicon glyphicon-ok-sign text-success";
                else

                document.getElementById("Enotif").className
= "glyphicon glyphicon-remove-sign text-
danger";
            }
        }
        var param = "bcName="+name;

        xmlhttp.open("POST","buscompanies/check",tr
ue);

        xmlhttp.setRequestHeader("ajaxOnly","yes");
        xmlhttp.setRequestHeader("Content-
type", "application/x-www-form-urlencoded");
        xmlhttp.send(param);
    }

    function suspend() {
        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
{

```

```

            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                resp = xmlhttp.responseText;
                if(resp == "Success") {
                    location.reload();
                }
            }
        }
        var param =
"id="+idToEdit+"&status=Suspended";

        xmlhttp.open("POST","buscompanies/setStatus
",true);

        xmlhttp.setRequestHeader("ajaxOnly","yes");
        xmlhttp.setRequestHeader("Content-
type", "application/x-www-form-urlencoded");
        xmlhttp.send(param);
    }

    function del() {
        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
{
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                resp = xmlhttp.responseText;
                if(resp == "Success") {
                    location.reload();
                }
            }
        }
        var param = "id="+idToEdit;

        xmlhttp.open("POST","buscompanies/deleteCom
pany",true);

        xmlhttp.setRequestHeader("ajaxOnly","yes");
        xmlhttp.setRequestHeader("Content-
type", "application/x-www-form-urlencoded");
        xmlhttp.send(param);
    }

    function reinstate() {
        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
{
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                resp = xmlhttp.responseText;
                if(resp == "Success") {
                    location.reload();
                }
            }
        }
        var param =
"id="+idToEdit+"&status=Active";

```

```

xmlhttp.open("POST", "buscompanies/setStatus
", true);

xmlhttp.setRequestHeader("ajaxOnly", "yes");
xmlhttp.setRequestHeader("Content-
type", "application/x-www-form-urlencoded");
xmlhttp.send(param);
}

function ca() {
var name =
document.getElementById("bcName").value;
if (window.XMLHttpRequest) {
xmlhttp=new XMLHttpRequest();
}
else {
xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
}
xmlhttp.onreadystatechange=function()
{
if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
resp = xmlhttp.responseText;
if(resp == "Available")

document.getElementById("notif").className
= "glyphicon glyphicon-ok-sign text-success";
else

document.getElementById("notif").className
= "glyphicon glyphicon-remove-sign text-
danger";
}
var param = "bcName="+name;

xmlhttp.open("POST", "buscompanies/check", tr
ue);

xmlhttp.setRequestHeader("ajaxOnly", "yes");
xmlhttp.setRequestHeader("Content-
type", "application/x-www-form-urlencoded");
xmlhttp.send(param);
}

function add() {

if(document.getElementById("notif").classNa
me == "glyphicon glyphicon-ok-sign text-
success") {

document.getElementById("n").className =
"";

document.getElementById("n").innerHTML =
"";
addCompany();
}
else if
(document.getElementById("notif").className ==
"glyphicon glyphicon-remove-sign text-danger"){

document.getElementById("n").className =
"alert alert-danger";

document.getElementById("n").innerHTML =
"Bus Company Name exists.";
}
}

}

function edit() {

if(document.getElementById("Enotif").classN
ame == "glyphicon glyphicon-ok-sign text-
success") {

document.getElementById("en").className =
"";

document.getElementById("en").innerHTML =
"";
editCompany();
}
else if
(document.getElementById("Enotif").className ==
"glyphicon glyphicon-remove-sign text-danger"){

document.getElementById("en").className =
"alert alert-danger";

document.getElementById("en").innerHTML =
"Bus Company Name exists.";
}
}

function addCompany() {
var name =
document.getElementById("bcName").value;
if (window.XMLHttpRequest) {
xmlhttp=new XMLHttpRequest();
}
else {
xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
}
xmlhttp.onreadystatechange=function()
{
if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
resp = xmlhttp.responseText;
if(resp == "Success") {

document.getElementById("n").className =
"alert alert-success";

document.getElementById("n").innerHTML =
"Bus Company Added. Refreshing Page";
location.reload();
}
else {

document.getElementById("n").className =
"alert alert-danger";

document.getElementById("n").innerHTML =
"ERROR";
}
}
}
var param = "bcName="+name;

xmlhttp.open("POST", "buscompanies/add", true
);

xmlhttp.setRequestHeader("ajaxOnly", "yes");

```

```

        xmlhttp.setRequestHeader("Content-
type", "application/x-www-form-urlencoded");
        xmlhttp.send(param);
    }

    function editCompany() {
        var name =
document.getElementById("EbcName").value;
        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
{
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                resp = xmlhttp.responseText;
                if(resp == "Success") {

                    document.getElementById("en").className =
"alert alert-success";

                    document.getElementById("en").innerHTML =
"Bus Company Updated. Refreshing Page";
                    location.reload();
                }
                else {

                    document.getElementById("en").className =
"alert alert-danger";

                    document.getElementById("en").innerHTML =
"ERROR";
                }
            }
        }
        var param =
"id="+idToEdit+"&bcName="+name;

        xmlhttp.open("POST", "buscompanies/edit", true);

        xmlhttp.setRequestHeader("ajaxOnly", "yes");
        xmlhttp.setRequestHeader("Content-
type", "application/x-www-form-urlencoded");
        xmlhttp.send(param);
    }
</script>
</html>
viewall_complaints.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>

        <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>

```

```

        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <style>
            body {
                background-color: #D7D7D7;
            }

            #list {
                height: 85%;
                overflow: auto;
            }
        </style>

        <title>Complaints</title>
    </head>
    <body>
        <div class = "container">
            <h1 class = "text-center"><span class
= "glyphicon glyphicon-file"></span> Complaints
List</h1>
            <div id = "notice"></div>

            <div class = "table-responsive">
                <h3 class = "text-
center">Complaints</h3>
                <table class = "table table-
hover" id = "clist">
                    <thead>
                        <tr>
                            <th>ID</th>
                            <th>Sender</th>
                            <th>Complaint Issue</th>
                            <th>Complaint Date</th>
                        </tr>
                    </thead>
                    <tbody id = "table-body">
                        <?php if($complaints !=
null):?>
                            <?php
foreach($complaints as $c):?>
                                <tr onClick =
"setComplaintInfo(<?php echo $c ->
complaintID;?>);">
                                    <td><?php echo $c ->
complaintID;?></td>
                                    <td><?php echo ($c -
> complaintSender != "")? $c ->
complaintSender: "Anonymous";?></td>
                                    <td><?php echo $c ->
complaintIssue;?></td>
                                    <td><?php echo $c ->
complaintDate;?></td>
                                </tr>
                            <?php endforeach;?>
                        <?php endif;?>
                    </tbody>
                </table>
            </div>

            <div class = "modal fade" id =
"complaintInfo" role = "dialog">
                <div class = "modal-dialog modal-
lg">

```

```

                <div class = "modal-content">
                    <div class = "modal-
header">
                        <button type="button"
class="close" data-dismiss =
"modal">&times;</button>
                            <h4 class="modal-
title">Complaint Information</h4>
                                </div>
                                    <div class="modal-body">
                                        <div id = "cInfo">
                                            <dl class = "dl-
horizontal">
                                                <dt>Complaint
ID:</dt>
                                                    <dd id =
"cID"></dd>
                                                        <dt>Complaint
Sender:</dt>
                                                            <dd id =
"cSender"></dd>
                                                                <dt>Complaint
Date:</dt>
                                                                    <dd id =
"cDate"></dd>
                                                                        <dt>Complaint
Issue:</dt>
                                                                            <dd id =
"cIssue"></dd>
                                                                                <dt>Complaint
Details:</dt>
                                                                                    <br/>
                                                                                        <dd id =
"cDetails"></dd>
                                                                                            </dl>
                                                                                                </div>
                                                                                                    </div>
                                                                                                        <div class="modal-footer">
                                                                                                            <button type="button"
class="btn btn-default" data-
dismiss="modal">Close</button>
                                                                                                                </div>
                                                                                                                    </div>
                                                                                                                        </div>
                                                                                                                            </div>
                                                                                                                                </div>
                                                                                                                                    </body>
                                                                                                                                        </div>
                                                                                                                                            <script>
                                                                                                        function setComplaintInfo(complaintID) {
                                                                                                            if (window.XMLHttpRequest) {
                                                                                                                xmlhttp=new XMLHttpRequest();
                                                                                                            }
                                                                                                            else {
                                                                                                                xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
                                                                                                            }
                                                                                                            xmlhttp.onreadystatechange=function()
{
                                                                                                                if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                                                                                                                    resp
JSON.parse(xmlhttp.responseText);
                                                                                                                    document.getElementById("cID").innerHTML =
resp.complaintID;
                                                                                                                    if(resp.complaintSender != "")

```

```

document.getElementById("cSender").innerHTM
L = resp.complaintSender;
else
document.getElementById("cSender").innerHTM
L = "Anonymous";
document.getElementById("cDate").innerHTML
= resp.complaintDate;
document.getElementById("cIssue").innerHTML
= resp.complaintIssue;
document.getElementById("cDetails").innerHT
ML = resp.complaintDetails;
$('#complaintInfo').modal();
}
}
xmlhttp.open("GET","viewComplaint/" +
complaintID,true);
xmlhttp.setRequestHeader("ajaxOnly","yes");
xmlhttp.send();
}
</script>
</html>
viewall_outgoingroutes.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>
<link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">
<script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
<script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
<script
src="http://maps.googleapis.com/maps/api/js"></
script>
<script>
var map;
var marker;
var infowindow;
var myCenter = new
google.maps.LatLng(14.5980716,120.9796513);
function initialize() {
var mapProp = {
center: myCenter,
zoom: 15,
mapTypeId:
google.maps.MapTypeId.ROADMAP
};
map = new
google.maps.Map(document.getElementById("map"),
mapProp);
}
}

```

```

        google.maps.event.addDomListener(window,
'load', initialize);
    </script>

    <meta charset = "utf-8">
    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

    <style>
        body {
            background-color: #D7D7D7;
        }

        #list {
            height: 85%;
            overflow: auto;
        }
    </style>

    <title>Bus Routes</title>
</head>
<body>
    <div class = "container col-sm-6" id
= "list">
        <h1 class = "text-center"><span class
= "glyphicon glyphicon-road"></span> Bus Routes
List</h1>
        <div id = "notice"></div>
        <?php if(isset($usertype)): ?>
            <?php if($usertype ==
'btAdmin'):?>
                <a href = "busroutes/addRoute"
class = "btn btn-primary btn-block"><span class
= "glyphicon glyphicon-road"></span> &nbsp;  Add
Outgoing Route</a>
            <?php endif;?>
        <?php endif;?>
        <div class = "table-responsive">
            <table class = "table table-
hover">
                <thead>
                    <tr>
                        <th>From</th>
                        <th>To</th>
                        <th></th>
                    </tr>
                </thead>
                <tbody id = "table-body">
                    <?php foreach($busRoutes as
$b): ?>
                        <tr id = "tr?<?php echo
$b -> terminalRouteID;?>">
                            <td><?php echo $b ->
routeFrom;?></td>
                            <td><?php echo $b ->
routeTo;?></td>
                            <td><a href = "#"
onClick = "viewRoute(<?php echo $b ->
routeID;?>)" class = "btn btn-primary"><span
class = "glyphicon glyphicon-screenshot"></span>
View Route</a></td>
                    </tr>
                </tbody>
            </table>
        </div>
    </div>

```

```

        <?php
if(isset($usertype)): ?>
    <?php
if($usertype == 'btAdmin'):?>
        <td><a href =
"#" onClick = "set(<?php echo $b ->
terminalRouteID;?>)" data-toggle = "modal"
data-target = "#confirm" class = "btn btn-
primary"><span class = "glyphicon glyphicon-
remove"></span> &nbsp;  Delete Route</a></td>
        <?php endif;?>
    <?php endif;?>
</tr>
<?php endforeach;?>
</tbody>
</table>
</div>

    <?php if($usertype == 'btAdmin'):?>
        <div id = "confirm" class =
"modal fade" role = "dialog">
            <div class = "modal-dialog
modal-sm">
                <div class = "modal-
content">
                    <div class="modal-
header">
                        <button
type="button" class="close" data-
dismiss="modal">&times;</button>
                        <h4 class="modal-
title">Delete Route</h4>
                    </div>
                    <div class="modal-body">
                        <p>Are you sure you
want to delete this record?</p>
                    </div>
                    <div class="modal-
footer">
                        <button onClick =
"del();" type="button" class="btn btn-default"
data-dismiss="modal">Yes</button>
                        <button
type="button" class="btn btn-default" data-
dismiss="modal">No</button>
                    </div>
                </div>
            </div>
        </div>
    <?php endif;?>
</div>

    <div class = "container col-sm-6" style
= "border:2px solid black;width: 45%; height:
500px; position: relative;">
        <div id = "map" style = "width: 90%;
height: 450px; position: relative; top: 25px;
left: 30px;">
        </div>
    </div>
</div>
<script>
    var markers = [];
    var m1, m2, rLine, bound, i1, i2;
    var idToDel;

    <?php if(isset($usertype)): ?>

```

```

        <?php      if($usertype      ==
'btAdmin'):??>
        function set(id) {
            idToDel = id;
        }

        function del() {
            markers = [];
            if(i1 != null && i2 != null
&& m1 != null && m2!= null && rLine != null &&
bound != null) {
                m1.setMap(null);
                m2.setMap(null);
                i1.setMap(null);
                i2.setMap(null);
                rLine.setMap(null);
                rLine = null;
                m1 = null;
                m2 = null;
                i1 = null;
                i2 = null;
            }

            var xmlhttp;
            var resp;
            var notice      =
document.getElementById("notice");

            if (window.XMLHttpRequest)
            {
                xmlhttp=new
XMLHttpRequest();
            }
            else {
                xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
            }

            xmlhttp.onreadystatechange=function() {
                if
(xmlhttp.readyState==4 && xmlhttp.status==200)
                {
                    resp      =
xmlhttp.responseText;
                    if(resp == "Bus
Route Record Deleted") {
                        notice.className
= "alert alert-success";
                        var t      =
document.getElementById("tr"+idToDel);

                        t.parentNode.removeChild(t);
                    }
                    else {
                        notice.className
= "alert alert-danger";
                    }
                    notice.innerHTML =
resp;
                }
            }

            var      parameters      =
"rID="+idToDel;

            xmlhttp.open("POST", "busroutes/delete",
true);

            xmlhttp.setRequestHeader("ajaxOnly", "yes");

            xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
            xmlhttp.send(parameters);

        }
        <?php endif;?>
    <?php endif;?>

    function viewRoute(id) {
        markers = [];
        if(i1 != null && i2 != null && m1
!= null && m2!= null && rLine != null && bound
!= null) {
            m1.setMap(null);
            m2.setMap(null);
            i1.setMap(null);
            i2.setMap(null);
            rLine.setMap(null);
            rLine = null;
            m1 = null;
            m2 = null;
            i1 = null;
            i2 = null;
        }

        var xmlhttp;
        var routeInfo;

        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }

        xmlhttp.onreadystatechange=function() {
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                routeInfo      =
JSON.parse(xmlhttp.responseText);
                var      routePoints      =
routeInfo['routePoints'];
                bound      =
new google.maps.LatLngBounds();
                for(var i = 0; i <
routePoints.length; i++) {
                    markers.push(new
google.maps.LatLng(routePoints[i]['lat'], routeP
oints[i]['lng']));

                    bound.extend(markers[markers.length-1]);
                }
                m1      =
new google.maps.Marker({
                    position: markers[0],
                    map: map
                });
                m2      =
new google.maps.Marker({
                    position:
markers[markers.length-1],
                    map: map
                });
            }
        }
    }

```

```

        i1 = new
google.maps.InfoWindow({
    content: 'From: ' +
routeInfo['mainInfo']['rFrom']
});
        i2 = new
google.maps.InfoWindow({
    content: 'To: ' +
routeInfo['mainInfo']['rTo']
});
        i1.open(map, m1);
        i2.open(map, m2);
        rLine = new
google.maps.Polyline({
    path: markers,
    geodesic: true,
    strokeColor: '#FF0000',
    strokeOpacity: 0.80,
    strokeWeight: 2,
    map: map
});
        map.fitBounds(bound);
    }
}

var parameters = "rID="+id;

xmlhttp.open("POST", "busroutes/viewMap",
true);

xmlhttp.setRequestHeader("ajaxOnly", "yes");

xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
xmlhttp.send(parameters);
}
</script>
</body>
</html>
viewall_personnels.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

<link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

<script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
<script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

<meta charset = "utf-8">
<meta name = "viewport" content = "width
= device-width, initial-scale = 1">

<style>
    body {
        background-color: #D7D7D7;
    }

```

```

#list {
    height: 85%;
    overflow: auto;
}
</style>

<title>View All Personnels</title>
</head>
<body>
    <div class = "container col-sm-6" id =
"list">
        <h1 class = "text-center"><span class
= "glyphicon glyphicon-user"></span> Personnel
List</h1>
        <p class = "text-center">NOTE: Users
highlighted in <mark class = "bg-
danger">red</mark> are the Bus Drivers while
those in <mark class = "bg-info">blue</mark>
are Bus Conductors.</p>
        <div id = "notice"></div>
        <a href
=
"buspersonnels/addPersonnel" class = "btn btn-
primary btn-block"><span class = "glyphicon
glyphicon-plus"></span> Add Personnel</a>
        <div class = "table-responsive">
            <table class = "table table-
hover">
                <thead>
                    <tr>
                        <th>Name</th>
                        <th></th>
                        <th></th>
                        <th></th>
                    </tr>
                </thead>
                <tbody id = "table-body">
                    <?php if(isset($busPersonnels)
&& count($busPersonnels)):>
                        <?php
foreach($busPersonnels as $b) :>
                            <?php if($b ->
busPersonnelType == "Driver"): ?>
                                <tr id = "tr<?php
echo $b -> busPersonnelID;?>" class = "danger">
                                    <?php else: ?>
                                        <tr id = "tr<?php
echo $b -> busPersonnelID;?>" class = "info">
                                            <?php endif;?>
                                                <td><a href
=
"#"
onOnClick = "get(<?php echo $b ->
busPersonnelID;?>)"><?php echo $b ->
busPersonnelLName . ", " . $b ->
busPersonnelFName. " " . $b ->
busPersonnelMName ;?> </a></td>
                                                    <td><a href
=
"#"
onOnClick = "edit(<?php echo $b ->
busPersonnelID;?>)" class = "btn btn-
primary"><span class = "glyphicon glyphicon-
lock"></span> Update Record</a></td>
                                                        <td><a href
=
"#"
onOnClick = "setep(<?php echo $b ->
busPersonnelID;?>)" class = "btn btn-primary"
data-toggle = "modal" data-target =
"#editPhoto"><span class = "glyphicon
glyphicon-camera"></span> Update Photo</a></td>
                                                            <td><a href
=
"#"
onOnClick = "set(<?php echo $b ->
busPersonnelID;?>)" class = "btn btn-primary"

```

```

data-toggle = "modal" data-target =
"#confirm"><span class = "glyphicon glyphicon-
minus"></span> Delete Personnel</a></td>
</tr>
<?php endforeach;?>
<?php endif;?>
</tbody>
</table>
</div>

<div id = "editPhoto" class = "modal
fade" role = "dialog">
<?php echo
form_open_multipart('buspersonnels/editPhoto',a
rray('class' => 'form-horizontal', 'role' =>
'form'));?>
<div class = "modal-dialog modal-
lg">
<div class = "modal-content">
<div class="modal-header">
<button type="button"
class="close" data-
dismiss="modal">&times;</button>
<h4 class="modal-
title">Update Photo</h4>
</div>
<div class="modal-body">
<div id = 'epn'></div>
<br/>
<div class = "form-
group">
<label for =
"userfile" class = "control-label col-sm-
3"><span class = "glyphicon glyphicon-
camera"></span> Profile Photo</label>
<div class = "col-
sm-7">
<input type =
"file" id = "userfile" name = "userfile" class
= "form-control" required autofocus>
<input type =
"hidden" id = "epID" name = 'epID'>
</div>
</div>
</div>
<div class="modal-footer">
<button type = "submit"
class = "btn btn-primary">Update Photo</button>
</div>
</div>
</form>
</div>

<div id = "confirm" class = "modal
fade" role = "dialog">
<div class = "modal-dialog modal-
sm">
<div class = "modal-content">
<div class="modal-header">
<button type="button"
class="close" data-
dismiss="modal">&times;</button>
<h4 class="modal-
title">Delete Personnel</h4>
</div>
<div class="modal-body">
<p>Are you sure you want
to delete this record?</p>
</div>
</div>
<div class="modal-footer">
<button type="button"
class="btn btn-default" data-
dismiss="modal">Yes</button>
<button type="button"
class="btn btn-default" data-
dismiss="modal">No</button>
</div>
</div>
</div>
</div>
</div>

<div id = "side">
</div>
</body>

<script>
var idToMod;

var xmlhttp;
var resp;

var notice =
document.getElementById("notice");

function setep(id) {
document.getElementById("epID").value
= id;
}

function set(id) {
idToMod = id;
}

function edit(id) {
if (window.XMLHttpRequest) {
xmlhttp=new XMLHttpRequest();
}
else {
xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
}
xmlhttp.onreadystatechange=function()
{
if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
resp = xmlhttp.responseText;

document.getElementById("side").innerHTML =
resp;
}
}
}

xmlhttp.open("GET", "busPersonnels/editPerso
nnel/" + id,true);

xmlhttp.setRequestHeader("ajaxOnly","yes");
xmlhttp.send();
}

function del() {
var node =
document.getElementById("tr"+idToMod);

```



```

        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
{
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                resp = xmlhttp.responseText;
                if(resp == "Bus Personnel
Record Deleted") {
                    notice.className = "alert
alert-success";

                    node.parentNode.removeChild(node);
                }
                else {
                    notice.className = "alert
alert-danger";
                }

                document.getElementById("notice").innerHTML
= resp;

                document.getElementById("side").innerHTML =
"";
            }

            xmlhttp.open("GET","buspersonnels/delete/"
+ idToMod,true);

            xmlhttp.setRequestHeader("ajaxOnly","yes");
            xmlhttp.send();

            function displayDiv() {

                if(document.getElementById('pType').value
== 'Driver')

                    document.getElementById('driverDiv').style.
display = 'block';
                else

                    document.getElementById('driverDiv').style.
display = 'none';
            }

            function get(id) {
                if (window.XMLHttpRequest) {
                    xmlhttp=new XMLHttpRequest();
                }
                else {
                    xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
                }
                xmlhttp.onreadystatechange=function()
{
                    if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                        resp = xmlhttp.responseText;

                        document.getElementById("side").innerHTML =
resp;
                    }
                }
            }
        }
    }
}

```

```

    }

    xmlhttp.open("GET","busPersonnels/view/" +
id,true);

    xmlhttp.setRequestHeader("ajaxOnly","yes");
    xmlhttp.send();
}
</script>
</html>
viewall_reports.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

    <link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

    <meta charset = "utf-8">
    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

    <style>
        body {
            background-color: #D7D7D7;
        }

        #list {
            height: 85%;
            overflow: auto;
        }
    </style>

    <title>Reports</title>
</head>
<body>
    <div class = "container">
        <h1 class = "text-center"><span class
= "glyphicon glyphicon-file"></span> Reports
List</h1>
        <div id = "notice"></div>

        <div class = "table-responsive">
            <h3 class = "text-
center">Reports</h3>
            <table class = "table table-
hover" id = "rlist">
                <thead>
                    <tr>
                        <th>ID</th>
                        <th>Report Month</th>
                        <th>Report Year</th>
                    </tr>
                </thead>
                <tbody id = "table-body">

```

```

        <?php    if($reports    !=
null):?>
        <?php    foreach($reports
as $r):?>
            <tr        onClick        =
"location.href = './viewReport/<?php echo $r ->
reportID;?>';">
                <td><?php echo $r ->
reportID;?></td>
                <td><?php        echo
date("F",strtotime($r -> reportYear."-".$r ->
reportMonth."-01 00:00:00"));?></td>
                <td><?php echo $r ->
reportYear;?></td>
            </tr>
        <?php endforeach;?>
    <?php endif;?>
</tbody>
</table>
</div>
</div>
</body>
</html>
viewall_routes.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>
        <link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
        <script
src="http://maps.googleapis.com/maps/api/js"></
script>

        <script>
            var map;
            var marker;
            var infowindow;
            var        myCenter        =        new
google.maps.LatLng(14.5980716,120.9796513);
            function initialize() {
                var mapProp = {
                    center: myCenter,
                    zoom: 15,
                    mapTypeId:
google.maps.MapTypeId.ROADMAP
                };
                map        =        new
google.maps.Map(document.getElementById("map"),
mapProp);

            }

            google.maps.event.addDomListener(window,
'load', initialize);
        </script>

```

```

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <style>
            body {
                background-color: #D7D7D7;
            }

            #list {
                height: 85%;
                overflow: auto;
            }
        </style>

        <title>Bus Routes</title>
    </head>
    <body>
        <div class = "container col-sm-6" id
= "list">
            <h1 class = "text-center"><span class
= "glyphicon glyphicon-road"></span> Bus Routes
List</h1>
            <div id = "notice"></div>
            <?php if(isset($usertype)): ?>
                <?php        if($usertype        ==
'sAdmin'):?>
                    <a href = "busroutes/addRoute"
class = "btn btn-primary btn-block"><span class
= "glyphicon glyphicon-road"></span> &nbsp;Add
Route</a>

                    <?php endif;?>
                <?php endif;?>
            <div class = "table-responsive">
                <table class = "table table-
hover">
                    <thead>
                        <tr>
                            <th>From</th>
                            <th>To</th>
                            <th></th>
                        </tr>
                    </thead>
                    <tbody>
                        <?php
if(isset($usertype)): ?>
                            <?php        if($usertype
== 'sAdmin'):?>
                                <th></th>
                                <th></th>
                                <?php endif;?>
                                <?php endif;?>
                            </tr>
                        </tbody>
                    </thead>
                    <tbody id = "table-body">
                        <?php foreach($busRoutes as
$b): ?>
                            <tr id = "tr<?php echo
$b -> routeID;?>">
                                <td><?php echo $b ->
routeFrom;?></td>
                                <td><?php echo $b ->
routeTo;?></td>
                                <td><a href = "#"
onClick = "viewRoute(<?php echo $b ->
routeID;?>)" class = "btn btn-primary"><span
class = "glyphicon glyphicon-screenshot"></span> View
Route</a></td>
                            </tr>
                        </tbody>
                    </tbody>
                </table>
            <?php
if(isset($usertype)): ?>
                <?php
if($usertype == 'sAdmin'):?>

```

```

        <td><a href =
"busroutes/editRoute/<?php echo $b ->
routeID;?>" class = "btn btn-primary"><span
class = "glyphicon glyphicon-edit"></span>
&nbsp;&nbsp;&nbsp;Edit Route</a></td>

        <td><a href =
"#" onClick = "set(<?php echo $b ->
routeID;?>)" data-toggle = "modal" data-target
= "#confirm" class = "btn btn-primary"><span
class = "glyphicon glyphicon-remove"></span>
&nbsp;&nbsp;&nbsp;Delete Route</a></td>

        <?php endif;?>
    <?php endif;?>
</tr>
<?php endforeach;?>
</tbody>
</table>
</div>

<?php if($isAdmin):?>
    <div id = "confirm" class =
"modal fade" role = "dialog">
        <div class = "modal-dialog
modal-sm">
            <div class = "modal-
content">
                <div class="modal-
header">
                    <button
type="button" class="close" data-
dismiss="modal">&times;</button>
                    <h4 class="modal-
title">Delete Route</h4>
                </div>
                <div class="modal-body">
                    <p>Are you sure you
want to delete this record?</p>
                </div>
                <div class="modal-
footer">
                    <button onClick =
"del();" type="button" class="btn btn-default"
data-dismiss="modal">Yes</button>
                    <button
type="button" class="btn btn-default" data-
dismiss="modal">No</button>
                </div>
            </div>
        </div>
    </div>
<?php endif;?>

</div>

<div class = "container col-sm-6" style
= "border:2px solid black;width: 45%; height:
500px; position: relative;">
    <div id = "map" style = "width: 90%;
height: 450px; position: relative; top: 25px;
left: 30px;">
    </div>
</div>

<script>
    var markers = [];
    var m1, m2, rline, bound, i1, i2;
    var idToDel;

```

```

        <?php if(isset($usertype)): ?>
            <?php if($usertype ==
'sAdmin'):?>
                function set(id) {
                    idToDel = id;
                }

                function del() {
                    markers = [];
                    if(i1 != null && i2 != null
&& m1 != null && m2!= null && rLine != null &&
bound != null) {
                        m1.setMap(null);
                        m2.setMap(null);
                        i1.setMap(null);
                        i2.setMap(null);
                        rLine.setMap(null);
                        rLine = null;
                        m1 = null;
                        m2 = null;
                        i1 = null;
                        i2 = null;
                    }

                    var xmlhttp;
                    var resp;
                    var notice =
document.getElementById("notice");

                    if (window.XMLHttpRequest)
                    {
                        xmlhttp=new
XMLHttpRequest();
                    }
                    else {
                        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
                    }

                    xmlhttp.onreadystatechange=function() {
                        if
(xmlhttp.readyState==4 && xmlhttp.status==200)
                    {
                        resp =
xmlhttp.responseText;
                        if(resp == "Bus
Route Record Deleted") {
                            notice.className
= "alert alert-success";
                            var t =
document.getElementById("tr"+idToDel);

                            t.parentNode.removeChild(t);
                        }
                        else {
                            notice.className
= "alert alert-danger";
                        }
                        notice.innerHTML =
resp;
                    }
                }

                var parameters =
"rID="+idToDel;

                xmlhttp.open("POST", "busroutes/delete",
true);

```

```

xmlhttp.setRequestHeader("ajaxOnly", "yes");

xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
xmlhttp.send(parameters);

}
<?php endif;?>
<?php endif;?>

function viewRoute(id) {
    markers = [];
    if(i1 != null && i2 != null && m1
!= null && m2!= null && rline != null && bound
!= null) {
        m1.setMap(null);
        m2.setMap(null);
        i1.setMap(null);
        i2.setMap(null);
        rline.setMap(null);
        rline = null;
        m1 = null;
        m2 = null;
        i1 = null;
        i2 = null;
    }

    var xmlhttp;
    var routeInfo;

    if (window.XMLHttpRequest) {
        xmlhttp=new XMLHttpRequest();
    }
    else {
        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }

    xmlhttp.onreadystatechange=function() {
        if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
            routeInfo
                =
JSON.parse(xmlhttp.responseText);
            var routePoints
                =
routeInfo['routePoints'];
            bound
                =
new
google.maps.LatLngBounds();
            for(var i = 0; i <
routePoints.length; i++) {
                markers.push(new
google.maps.LatLng(routePoints[i]['lat'], routeP
oints[i]['lng']));

                bound.extend(markers[markers.length-1]);
            }
            m1
                =
new
google.maps.Marker({
                position: markers[0],
                map: map
            });
            m2
                =
new
google.maps.Marker({
                position:
markers[markers.length-1],
                map: map
            });
        }
    }
}

```

```

        i1
            =
new
google.maps.InfoWindow({
            content: 'From: ' +
routeInfo['mainInfo']['rFrom']
        });
        i2
            =
new
google.maps.InfoWindow({
            content: 'To: ' +
routeInfo['mainInfo']['rTo']
        });
        i1.open(map, m1);
        i2.open(map, m2);
        rline
            =
new
google.maps.Polyline({
            path: markers,
            geodesic: true,
            strokeColor: '#FF0000',
            strokeOpacity: 0.80,
            strokeWeight: 2,
            map: map
        });
        map.fitBounds(bound);
    }
}

var parameters = "rID="+id;

xmlhttp.open("POST", "busroutes/viewMap",
true);

xmlhttp.setRequestHeader("ajaxOnly", "yes");

xmlhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
xmlhttp.send(parameters);

}
</script>
</body>
</html>
viewall_terminals.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

<link
                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

<script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
<script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
<script
src="http://maps.googleapis.com/maps/api/js"></
script>

<script>
    var map;
    var marker;
    var infowindow;

```

```

        var myCenter = new
google.maps.LatLng(14.5980716,120.9796513);
function initialize() {
    var mapProp = {
        center: myCenter,
        zoom: 15,
        mapTypeId:
google.maps.MapTypeId.ROADMAP
    };
    map = new
google.maps.Map(document.getElementById("map"),
mapProp);

    var marker = new
google.maps.Marker({
    position: myCenter
    });
}

google.maps.event.addDomListener(window,
'load', initialize);
</script>

<meta charset = "utf-8">
<meta name = "viewport" content = "width
= device-width, initial-scale = 1">

<style>
    body {
        background-color: #D7D7D7;
    }

    #list {
        height: 85%;
        overflow: auto;
    }
</style>

<title>Bus Terminals</title>
</head>
<body>
    <div class = "container col-sm-6" id
= "list">
        <h1 class = "text-center"><span class
=
"glyphicon glyphicon-exclamation-
sign"></span> Bus Terminals List</h1>
        <div id = "notice"></div>
        <?php if(isset($usertype)): ?>
            <?php if($usertype
==
'sAdmin'):?>
                <a href
=
"busterminals/addTerminal" class = "btn btn-
primary btn-block"><span class = "glyphicon
glyphicon-plus"></span> Add Bus Terminal</a>
            <?php endif;?>
        <?php endif;?>
        <div class = "table-responsive">
            <table class = "table table-
hover">
                <thead>
                    <tr>
                        <th>Bus Terminal
Name</th>
                    </tr>
                </thead>
                <tbody id = "table-body">
                    <?php foreach($busTerminals
as $b): ?>
                        <tr id = "tr<?php echo
$b -> stopPointID;?>">
                            <td><a href
=
"#"><?php echo $b -> stopPointName;?></a></td>
                            <td><a href = "#"
onClick = "loc(<?php echo $b ->
stopPointLat;?>,<?php echo $b ->
stopPointLong;?>)" class = "btn btn-
primary"><span class = "glyphicon glyphicon-
screenshot"></span> View Location</a></td>
                        <?php
if(isset($usertype)): ?>
                            <?php
if($usertype == 'sAdmin'):?>
                                <td><a href =
"busterminals/editTerminal/<?php echo $b ->
stopPointID;?>" class = "btn btn-primary"><span
class = "glyphicon glyphicon-edit"></span>
Update Record</a></td>
                                <td><a href =
"#" onClick = "set(<?php echo $b ->
stopPointID;?>)" class = "btn btn-primary"
data-toggle = "modal" data-target =
"#confirm"><span class = "glyphicon glyphicon-
minus"></span> Delete Record</a></td>
                            <?php endif;?>
                        <?php endif;?>
                    </tr>
                </tbody>
            </table>
        </div>

        <div id = "confirm" class = "modal
fade" role = "dialog">
            <div class = "modal-dialog modal-
sm">
                <div class = "modal-content">
                    <div class="modal-header">
                        <button type="button"
class="close" data-
dismiss="modal">&times;</button>
                        <h4 class="modal-
title">Delete Bus Terminal</h4>
                    </div>
                    <div class="modal-body">
                        <p>Are you sure you want
to delete this record?</p>
                    </div>
                    <div class="modal-footer">
                        <button onClick =
"del();" type="button" class="btn btn-default"
data-dismiss="modal">Yes</button>
                        <button type="button"
class="btn btn-default" data-
dismiss="modal">No</button>
                    </div>
                </div>
            </div>
        </div>
    </div>

```

```

        </div>
    </div>

    <div class = "container col-sm-6" style
= "border:2px solid black;width: 45%; height:
500px; position: relative;">
        <div id = "map" style = "width: 90%;
height: 450px; position: relative; top: 25px;
left: 30px; visibility: hidden;">
            </div>
        </div>
</body>

<script>
    var idToDel;

    var xmlhttp;
    var resp;

    var notice =
document.getElementById("notice");

    function loc(sLat, sLong) {

        document.getElementById("map").style.visibi
lity = "visible";
        myCenter = new
google.maps.LatLng(sLat, sLong);
        if(marker != null) {
            marker.setPosition(myCenter);
        }
        else {
            marker = new google.maps.Marker({
                position: myCenter,
                map: map
            });
        }
        map.panTo(myCenter);
    }

    function set(id) {
        idToDel = id;
    }

    function del() {
        var node =
document.getElementById("tr"+idToDel);
        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
{
            if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
                resp = xmlhttp.responseText;
                if(resp == "Bus Terminal
Record Deleted") {
                    notice.className = "alert
alert-success";

                    node.parentNode.removeChild(node);
                }
                else {

```

```

notice.className = "alert
alert-danger";
            }
        }

        document.getElementById("notice").innerHTML
= resp;

        document.getElementById("side").innerHTML =
"";
    }
}

xmlhttp.open("GET","busterminals/delete/" +
idToDel,true);

xmlhttp.setRequestHeader("ajaxOnly","yes");
xmlhttp.send();
}

</script>
</html>
viewall_trips.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

    <link rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

    <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
    <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>
    <script
src="http://maps.googleapis.com/maps/api/js"></
script>

    <meta charset = "utf-8">
    <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

    <script>
        var bTerminalID = <?php echo
$bTerminalID?>
    </script>
    <style>
        body {
            background-color: #D7D7D7;
        }
    </style>

    <title>Trips</title>
</head>
    <body <?php echo($usertype == "btAdmin") ?
"onLoad = 'findTrips()' : "" ;?>>
    <div class = "container">
        <div id = "header" class = "text-
center">
            <h3><span class = "glyphicon
glyphicon-bed"></span> Trips</h3>

```



```

var dService = new google.maps.DirectionsService;

function setID(id) {
    if("<?php echo $usertype?" == "btAdmin") {
        idToSet = id;
    }
}

function updateSeat() {
    var num = document.getElementById("numASeats").value;
    var xhttp;
    if (window.XMLHttpRequest) {
        xhttp=new XMLHttpRequest();
    }
    else {
        xhttp=new ActiveXObject("Microsoft.XMLHTTP");
    }
    xhttp.onreadystatechange = function() {
        $('#seatForm').modal('hide');
    }
    var parameters = "tripID="+idToSet+"&numSeats="+num;
    xhttp.open("POST", "./trips/updateSeat", true);

    xhttp.setRequestHeader("ajaxOnly", true);
    xhttp.setRequestHeader("Content-type", "application/x-www-form-urlencoded");
    xhttp.send(parameters);
}

function setTerminal() {
    btID = document.getElementById("busTerminalIDs").value;
}

if(btID != -1) {
    bTerminalID = btID;
    if(w != null)
        w.terminate();
    w = undefined;
    findTrips();
}

function findTrips() {
    outgoingTrips = [];
    incomingTrips = [];
    tripIDs = [];
    xTrips = [];

    var xhttp;
    if (window.XMLHttpRequest) {
        xhttp=new XMLHttpRequest();
    }
    else {
        xhttp=new ActiveXObject("Microsoft.XMLHTTP");
    }
    xhttp.onreadystatechange = function() {
        if (xhttp.readyState == 4 && xhttp.status == 200) {

```

```

var trips = JSON.parse(xhttp.responseText);
var incomingT = document.getElementById("in-table-body");
var outgoingT = document.getElementById("out-table-body");

while(incomingT.hasChildNodes()) {
    incomingT.removeChild(incomingT.firstChild);
}

while(outgoingT.hasChildNodes()) {
    outgoingT.removeChild(outgoingT.firstChild);
}

var iTrips = trips["incoming"]["busData"];
var oTrips = trips["outgoing"]["busData"];
window.outgoingTrips = oTrips;
window.incomingTrips = iTrips;

for(var i = 0; i < iTrips.length; i++) {
    var row = document.createElement("tr");
    var bpNo = document.createElement("td");
    var spNm = document.createElement("td");
    var iETA = document.createElement("td");
    var extra = document.createElement("td");
    var numSeats = document.createElement("td");
    row.id = "intr"+iTrips[i]["tripID"];
    iETA.id = iTrips[i]["tripID"];
    numSeats.id = "numSeats"+iTrips[i]["tripID"];
    bpNo.innerHTML = iTrips[i]["busPlateNo"];
    spNm.innerHTML = "<a href = '#' onClick = 'window.open(\"busroutes/viewRouteInfo/"+iTrips[i]["routeID"]+"\", \"_blank\")'>" + iTrips[i]["stopPointName"] + "</a>";
    numSeats.innerHTML = iTrips[i]["numAvailableSeats"];

    if(iTrips[i]["timeArrived"] == null && "<?php echo $usertype?" == "btAdmin") {
        extra.innerHTML = "<a href = '#' onclick = 'arrive(\"+iTrips[i]['tripID']+')' class = 'btn btn-primary'>Arrived</a>";
    }
    row.appendChild(bpNo);
    row.appendChild(spNm);

    row.appendChild(numSeats);
    row.appendChild(iETA);
    row.appendChild(extra);
}

```



```

        incomingT.appendChild(row);
    }
    for(var i = 0; i <
oTrips.length; i++) {
        var row =
document.createElement("tr");
        var bpNo =
document.createElement("td");
        var spNm =
document.createElement("td");
        var oETA =
document.createElement("td");
        var numSeats =
document.createElement("td");
        var extra =
document.createElement("td");
        row.id =
"outtr"+oTrips[i]["tripID"];
        oTrips[i]["tripID"];
        oTrips[i]["busPlateNo"];
        numSeats.id =
"numSeats"+oTrips[i]["tripID"];
        spNm.innerHTML = "<a
href = '#' onclick =
'window.open(\"busroutes/viewRouteInfo/\"+oTrips
[i][\"routeID\"]+\"\", \"_blank\")'>\"
oTrips[i][\"stopPointName\"] + \"</a>\";
        numSeats.innerHTML =
oTrips[i][\"numAvailableSeats\"];
        if("<?php echo
$usertype?>" == "btAdmin") {
            extra.innerHTML =
"<a href = '#' onclick =
'setID(\""+oTrips[i][\"tripID\"]+\"\" class =
'btn btn-primary' class = 'btn btn-primary'
data-toggle = 'modal' data-target =
'#seatForm'>Update</a>\";
        }

        if(oTrips[i][\"timeDeparted\"] == null &&
"<?php echo $usertype?>" == "btAdmin") {
            oETA.innerHTML = "<a
href = '#' onclick =
'depart(\""+oTrips[i][\"tripID\"]+\"\" class = 'btn
btn-primary'>Depart</a>\";
        }
        else
        if(oTrips[i][\"timeDeparted\"] == null) {
            oETA.innerHTML =
"\"Not yet departing\";
        }
        row.appendChild(bpNo);
        row.appendChild(spNm);

        row.appendChild(numSeats);
        row.appendChild(extra);
        row.appendChild(oETA);

        outgoingT.appendChild(row);
    }
    startWorker();
};

var parameters =

```

```

        xhttp.open("POST",
"./trips/getTrips", true);

        xhttp.setRequestHeader("ajaxOnly", true);
        xhttp.setRequestHeader("Content-
type", "application/x-www-form-urlencoded");
        xhttp.send(parameters);
    }

    function startWorker() {
        if(typeof(Worker) !==
"undefined") {
            if(typeof(w) == "undefined") {
                w = new
Worker("./scripts/update_terminal.js");
            }
            w.onmessage = function(event)
            {
                var Tdata =
event.data;
                var tripData =
Tdata.tripData;
                var bpData =
Tdata.bpData;
                if(time < Tdata.time) {
                    time = Tdata.time;
                    var OT =
tripData.outgoing["busData"];
                    var OTL =
tripData.outgoing["locationData"];
                    var IT =
tripData.incoming["busData"];
                    var ITL =
tripData.incoming["locationData"];
                    var incomingT =
document.getElementById("in-table-body");
                    var outgoingT =
document.getElementById("out-table-body");
                    var tripChecker = [];

                    //inserting and editing
                    for(var i = 0; i <
OT.length; i++) {
                        if(document.getElementById("outtr"+OT[i].tr
ipID) != null) {
                            //existing
                            outgoing Trip
                            var row =
document.getElementById(OT[i].tripID);

                            document.getElementById("numSeats"+OT[i][\"t
ripID\"]).innerHTML =
OT[i][\"numAvailableSeats\"];

                            if(OT[i][\"timeDeparted\"] != null &&
row.innerHTML == "Not yet departing") {
                                row.innerHTML
= "";
                                var bRow =
null;

                                for(var j = 0;
j < outgoingTrips.length; j++) {
                                    if(outgoingTrips[j].stopPointName.localeCom
pare(OT[i][\"stopPointName\"] > 0) {
                                        bRow =

```

```

        break;
    }
    else
if(outgoingTrips[j].stopPointName.localeCompare
(OT[i]["stopPointName"]) == 0) {

    if(outgoingTrips[j].busPlateNo.localeCompar
e(OT[i]["busPlateNo"]) > 0) {
        bRow
= j;
        break;
    }
}

null) {
    outgoingTrips.push(OT[i]);
    }
    else {
        window.outgoingTrips.splice(bRow-1,
0,
OT[i]);
    }
}
else {
//new    outgoing
Trip
var    row    =
document.createElement("tr");
var    bpNo    =
document.createElement("td");
var    spNm    =
document.createElement("td");
var    oETA    =
document.createElement("td");
var    numSeats    =
document.createElement("td");
var    extra    =
document.createElement("td");
row.id    =
"outtr"+OT[i]["tripID"];
oETA.id    =
OT[i]["tripID"];
numSeats.id    =
"numSeats"+OT[i]["tripID"];
bpNo.innerHTML    =
OT[i]["busPlateNo"];
spNm.innerHTML    =
"<a href = '#' onClick =
'window.open(\\"busroutes/viewRouteInfo/"+OT[i][
"routeID"]+"\\", \\_blank\\")'>" +
OT[i]["stopPointName"] + "</a>";

numSeats.innerHTML    =
OT[i]["numAvailableSeats"];
if("<?php echo
$usertype?>" == "btAdmin") {

    extra.innerHTML = "<a href = '#' onClick =
'setID(\""+OT[i]["tripID"]+"\\")' class = 'btn
btn-primary' class = 'btn btn-primary' data-
toggle = 'modal' data-target =
'#seatForm'>Update</a>";
}
}

if(OT[i]["timeDeparted"] == null && "<?php
echo $usertype?>" == "btAdmin") {
    oETA.innerHTML
= "<a href = '#' onclick =
'depart(\""+OT[i]['tripID']+"')>Depart</a>";
}
else
if(OT[i]["timeDeparted"] == null) {
    oETA.innerHTML
= "Not yet departing";
}

row.appendChild(bpNo);
row.appendChild(spNm);
row.appendChild(numSeats);
row.appendChild(extra);
row.appendChild(oETA);
var bRow = null;
for(var j = 0; j
< outgoingTrips.length; j++) {

    if(outgoingTrips[j].stopPointName.localeCom
pare(OT[i]["stopPointName"]) > 0) {
        bRow = j;
        break;
    }
    else
if(outgoingTrips[j].stopPointName.localeCompare
(OT[i]["stopPointName"]) == 0) {

        if(outgoingTrips[j].busPlateNo.localeCompar
e(OT[i]["busPlateNo"]) > 0) {
            bRow =
j;
            break;
        }
    }
}

if(bRow == null)

{
    outgoingT.appendChild(row);
    outgoingTrips.push(OT[i]);
}
else {

    outgoingT.insertBefore(row,
outgoingT.childNodes[bRow]);

    window.outgoingTrips.splice(bRow-1,
0,
OT[i]);
}

}

tripChecker.push(OT[i].tripID);
}

for(var i = 0; i <
IT.length; i++) {

```

```

        if(document.getElementById("intr"+IT[i].tripID) != null) {
            //existing
            incoming Trip

            document.getElementById("numSeats"+IT[i]["tripID"]).innerHTML =
            IT[i]["numAvailableSeats"];
        }
        else {
            //new incoming Trip
            var row =
            document.createElement("tr");
            var bpNo =
            document.createElement("td");
            var spNm =
            document.createElement("td");
            var iETA =
            document.createElement("td");
            var extra =
            document.createElement("td");
            var numSeats =
            document.createElement("td");
            row.id =
            "intr"+IT[i]["tripID"];
            iETA.id =
            IT[i]["tripID"];
            numSeats.id =
            "numSeats"+IT[i]["tripID"];
            bpNo.innerHTML =
            IT[i]["busPlateNo"];
            spNm.innerHTML =
            "<a href = '#' onclick =
            'window.open(\"busroutes/viewRouteInfo/\"+IT[i][
            \"routeID\"]+\"\", \"_blank\")'>\"
            IT[i][\"stopPointName\"] + \"</a>\";

            numSeats.innerHTML =
            IT[i][\"numAvailableSeats\"];

            if(IT[i][\"timeArrived\"] == null && "<?php
            echo $usertype?>" == "btAdmin") {

                extra.innerHTML = "<a href = '#' onclick =
                'arrive(\"+IT[i][\"tripID\"]+\"')' class = 'btn btn-
                primary'>Arrived</a>\";
            }

            row.appendChild(bpNo);

            row.appendChild(spNm);

            row.appendChild(numSeats);

            row.appendChild(iETA);

            row.appendChild(extra);

            var bRow = null;

            for(var j = 0; j
            < incomingTrips.length; j++) {

                if(incomingTrips[j].stopPointName.localeCompare(IT[i][\"stopPointName\"] > 0) {
                    bRow = j;
                    break;
                }

                else
                if(incomingTrips[j].stopPointName.localeCompare(IT[i][\"stopPointName\"] == 0) {

                    if(incomingTrips[j].busPlateNo.localeCompare(IT[i][\"busPlateNo\"] > 0) {
                        bRow =
                        j;
                        break;
                    }
                }

                if(bRow == null)
                {
                    incomingT.appendChild(row);
                    incomingTrips.push(IT[i]);
                }
                else {
                    incomingT.insertBefore(row,
                    incomingT.childNodes[bRow]);
                    incomingTrips.splice(bRow-1, 0, IT[i]);
                }
            }

            tripChecker.push(IT[i].tripID);
        }

        //deleting
        for(var i =
        (window.incomingTrips.length - 1); i >= 0 ; i--
        ) {
            var testTrip =
            window.incomingTrips[i].tripID;

            if(tripChecker.indexOf(testTrip) == -1) {
                //delete incoming
                trip

                window.bNo.splice(window.bNo.indexOf(window
                .incomingTrips[i].busPlateNo), 1);
                var row =
                document.getElementById("intr"+testTrip);

                row.parentNode.removeChild(row);

                window.destPoints.splice(window.tripIDs.index
                of(testTrip),1);

                window.xTrips.splice(window.tripIDs.indexO
                f(testTrip),1);

                window.tripIDs.splice(window.tripIDs.indexO
                f(testTrip),1);

                window.incomingTrips.splice(i, 1);
            }
        }

        for(var i =
        (window.outgoingTrips.length - 1); i >= 0 ; i--
        ) {

```

```

        var testTrip =
window.outgoingTrips[i].tripID;

        if(tripChecker.indexOf(testTrip) == -1) {
            //delete outgoing
trip
            window.bNo.splice(window.bNo.indexOf(window
.outgoingTrips[i].busPlateNo), 1);
            var row =
document.getElementById("outr"+testTrip);
            row.parentNode.removeChild(row);
            window.outgoingTrips.splice(i, 1);
            window.destPoints.splice(window.tripIDs.ind
exOf(testTrip),1);
            window.xTrips.splice(window.tripIDs.indexOf
(testTrip),1);
            window.tripIDs.splice(window.tripIDs.indexO
f(testTrip),1);
        }
        //fixing Points
        for(var i = 0; i <
window.outgoingTrips.length; i++) {
            var oTripID =
window.outgoingTrips[i].tripID;

            if(window.tripIDs.indexOf(oTripID) == -1 &&
window.outgoingTrips[i].timeDeparted != null) {

                window.tripIDs.push(oTripID);

                window.destPoints.push(new
google.maps.LatLng(window.outgoingTrips[i].stop
PointLat,window.outgoingTrips[i].stopPointLong)
);

                window.bNo.push(window.outgoingTrips[i].bus
PlateNo);

                window.xTrips.push({});
            }
            for(var i = 0; i <
window.incomingTrips.length; i++) {
                var iTripID =
window.incomingTrips[i].tripID;

                if(window.tripIDs.indexOf(iTripID) == -1) {

                    window.tripIDs.push(iTripID);

                    window.destPoints.push(
                        new
google.maps.LatLng(tripData.bTerminalData[0].st
opPointLat,tripData.bTerminalData[0].stopPointL
ong));

                    window.bNo.push(window.incomingTrips[i].bus
PlateNo);

                    window.xTrips.push({});

```

```

        }
        for(var i = 0; i <
OTL.length; i++) {
            var BPNo =
OTL[i].busPlateNo;
            var tIndex =
window.bNo.indexOf(BPNo);

            if(outgoingTrips[i].timeDeparted != null) {
                var DSRequest =
                    DSRequest.origin
                    =
                    new
google.maps.LatLng(OTL[i].busLat,OTL[i].busLong
);

                DSRequest.destination =
window.destPoints[tIndex];

                DSRequest.travelMode =
google.maps.TravelMode.DRIVING;

                DSRequest.provideRouteAlternatives =
false;

                DSRequest.drivingOptions = {
                    departureTime:
                    new Date(Date.now()),
                    trafficModel:
                    "pessimistic"
                };
            }
        }
        for(var i = 0; i <
ITL.length; i++) {
            var BPNo =
ITL[i].busPlateNo;
            var tIndex =
window.bNo.indexOf(BPNo);

            if(incomingTrips[i].timeDeparted != null) {
                var DSRequest =
                    DSRequest.origin
                    =
                    new
google.maps.LatLng(ITL[i].busLat,ITL[i].busLong
);

                DSRequest.destination =
window.destPoints[tIndex];

                DSRequest.travelMode =
google.maps.TravelMode.DRIVING;

                DSRequest.provideRouteAlternatives =
false;

                DSRequest.drivingOptions = {
                    departureTime:
                    new Date(Date.now()),
                    trafficModel:
                    "pessimistic"
                };
            }
        }
    }
}

```

```

//responseHandler
function
responseHandler(response, status) {
    var tripIndex =
window.xTrips.indexOf(response.request);
    if(tripIndex != -1)
    {
        var t = new
Date();

        t.setSeconds(t.getSeconds() +
response.routes[0].legs[0].duration.value);
        var h =
t.getHours();
        var m =
t.getMinutes();

        var a;
        if(h < 12)
            a = "AM";
        else
            a = "PM";
        if(h == 0)
            h = "12";
        else if(h != 12)
        {
            if(h % 12 <
10)
                h = "0" +
(h % 12);
            else
                h = (h %
12);
        }
        if(m < 10)
            m = "0" + m;

        document.getElementById(window.tripIDs[trip
Index]).innerHTML = h + ":" + m + " " + a;
    }
}

//send Requests
var num = 0;
for(var i = 0; i <
window.xTrips.length; i++) {
    if(window.xTrips[i]
!= {}) {
        dService.route(window.xTrips[i],
responseHandler);
        num++;
    }
}

w.postMessage(bTerminalID);
} else {

    document.getElementById('result').className
= "alert alert-danger";

    document.getElementById('result').innerHTML
= "Sorry, your web browser doesn't support web
workers.";
}
}

```

```

}
<?php if($usertype == "btAdmin")?:>
function depart(tripID) {
    var xhttp;
    if (window.XMLHttpRequest) {
        xhttp=new XMLHttpRequest();
    }
    else {
        xhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }
    xhttp.onreadystatechange =
function() {
        if (xhttp.readyState == 4
&& xhttp.status == 200) {
            if(xhttp.responseText ==
"success") {
                //document.getElementById(tripID).innerHTML
= "";
                location.href =
'./trips';
            }
        }
    };
    var parameters =
"tripID="+tripID;
    xhttp.open("POST",
"./trips/departTrip", true);
    xhttp.setRequestHeader("ajaxOnly", true);
    xhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
    xhttp.send(parameters);
}

function arrive(tripID) {
    var xhttp;
    if (window.XMLHttpRequest) {
        xhttp=new XMLHttpRequest();
    }
    else {
        xhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }
    xhttp.onreadystatechange =
function() {
        if (xhttp.readyState == 4
&& xhttp.status == 200) {
            if(xhttp.responseText ==
"success") {
                //for deletion
            }
        }
    };
    var parameters =
"tripID="+tripID;
    xhttp.open("POST",
"./trips/arriveTrip", true);
    xhttp.setRequestHeader("ajaxOnly", true);
    xhttp.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
}

```

```

        xhttp.send(parameters);
    }
    <?php endif;?>
</script>
</body>
</html>
viewall_users.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
    <head>
        <link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

        <script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
        <script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

        <meta charset = "utf-8">
        <meta name = "viewport" content = "width
= device-width, initial-scale = 1">

        <style>
            body {
                background-color: #D7D7D7;
            }

            #list {
                height: 85%;
                overflow: auto;
            }
        </style>

        <title>View All Users</title>
    </head>
    <body>
        <div class = "container col-sm-6" id =
"list">
            <h1 class = "text-center"><span class
= "glyphicon glyphicon-user"></span> Users
List</h1>
            <p class = "text-center">NOTE: Users
highlighted in <mark class = "bg-
danger">red</mark> are the System
Administrators while those in <mark class =
"bg-info">blue</mark> are Bus Terminal
Administrators.</p>
            <div id = "notice"></div>
            <a href = "#" onClick = "add()" class
= "btn btn-primary btn-block"><span class =
"glyphicon glyphicon-plus"></span> Add User</a>
            <div class = "table-responsive">
                <table class = "table table-
hover">
                    <thead>
                        <tr>
                            <th>User ID</th>
                            <th>Username</th>
                            <th></th>
                            <th></th>
                        </tr>
                    </thead>
                    <tbody>
                        <tr>
                            <td><?php foreach($users as $u)
:?)>
                                <?php if($u -> userID !=
$userID): ?>
                                    <?php if($u -> uType ==
"sAdmin"): ?>
                                        <tr id = "tr<?php
echo $u -> userID;?>" class = "danger">
                                            <?php else: ?>
                                                <tr id = "tr<?php
echo $u -> userID;?>" class = "info">
                                                    <?php endif;?>
                                                        <td><?php echo $u ->
userID ;?> </td>
                                                            <td><a href = "#"
onClick = "get(<?php echo $u -> userID;?>)">
<?php echo $u -> uName ?> </a></td>
                                                                <td><a href = "#"
onClick = "reset(<?php echo $u -> userID;?>)"
class = "btn btn-primary"><span class =
"glyphicon glyphicon-lock"></span> Reset
Password</a></td>
                                                                    <td><a href = "#"
onClick = "set(<?php echo $u -> userID;?>)"
class = "btn btn-primary" data-toggle = "modal"
data-target = "#confirm"><span class =
"glyphicon glyphicon-minus"></span> Delete
User</a></td>
                                                                        </tr>
                                                                            <?php endif;?>
                                                                                <?php endforeach;?>
                                                                                    </tbody>
                                                                                        </table>
                                                                                            </div>

                            <div id = "confirm" class = "modal
fade" role = "dialog">
                                <div class = "modal-dialog modal-
sm">
                                    <div class = "modal-content">
                                        <div class="modal-header">
                                            <button type="button"
class="close" data-
dismiss="modal">&times;</button>
                                            <h4 class="modal-
title">Delete User</h4>
                                        </div>
                                        <div class="modal-body">
                                            <p>Are you sure you want
to delete this user?</p>
                                        </div>
                                        <div class="modal-footer">
                                            <button onClick =
"del();" type="button" class="btn btn-default"
data-dismiss="modal">Yes</button>
                                            <button type="button"
class="btn btn-default" data-
dismiss="modal">No</button>
                                        </div>
                                    </div>
                                </div>
                            </div>
                        </div>
                    </div>
                </thead>
            </table>
        </div>
    </body>
</html>

```

```

    </div>
</body>

<script>
    var idToDel;

    var xmlhttp;
    var resp;

    var notice =
document.getElementById("notice");
    function reset(id) {

        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
    {
        if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
            resp = xmlhttp.responseText;
            if(resp == "Password was
reset.") {
                notice.className = "alert
alert-success";
            }
            else {
                notice.className = "alert
alert-danger";
            }

            document.getElementById("notice").innerHTML
= resp;
        }
        xmlhttp.open("GET","users/reset/" +
id,true);

        xmlhttp.setRequestHeader("ajaxOnly","yes");
        xmlhttp.send();
    }

    function set(id) {
        idToDel = id;
    }

    function addUser() {
        var uName =
document.getElementById("uName").value;
        var uType =
document.getElementById("uType").value;
        var bCompany =
document.getElementById("bCompany").value;
        var bTerminal =
document.getElementById("bTerminal").value;

        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
    }

```

```

        xmlhttp.onreadystatechange=function()
    {
        if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
            resp = xmlhttp.responseText;
            if(resp == "User added.
Refreshing Page.") {

                document.getElementById("n").className =
"alert alert-success";

                document.getElementById("n").innerHTML =
resp;
                location.reload();
            }
            else {

                document.getElementById("n").className =
"alert alert-danger";

                document.getElementById("n").innerHTML =
resp;
            }
        }
        xmlhttp.open("GET","users/au" ,true);
        xmlhttp.setRequestHeader("ajaxOnly","yes");
        xmlhttp.setRequestHeader("uType",uType);
        xmlhttp.setRequestHeader("uName",uName);
        xmlhttp.setRequestHeader("bCompany",bCompan
y);
        xmlhttp.setRequestHeader("bTerminal",bTermi
nal);
        xmlhttp.send();
    }

    function get(id) {
        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
    {
        if (xmlhttp.readyState==4 &&
xmlhttp.status==200) {
            resp = xmlhttp.responseText;

            document.getElementById("side").innerHTML =
resp;
        }
    }

        xmlhttp.open("GET","users/view/" +
id,true);

        xmlhttp.setRequestHeader("ajaxOnly","yes");
        xmlhttp.send();
    }

```

```

function add() {
    if (window.XMLHttpRequest) {
        xmlhttp=new XMLHttpRequest();
    }
    else {
        xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
    }
    xmlhttp.onreadystatechange=function()
{
        if (xmlhttp.readyState==4    &&
xmlhttp.status==200) {
            resp = xmlhttp.responseText;

            document.getElementById("side").innerHTML =
resp;
        }

        xmlhttp.open("GET","users/addUser",
true);

        xmlhttp.setRequestHeader("ajaxOnly","yes");
        xmlhttp.send();
    }

    function del() {
        var        node        =
document.getElementById("tr"+idToDel);
        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
{
            if (xmlhttp.readyState==4    &&
xmlhttp.status==200) {
                resp = xmlhttp.responseText;
                if(resp == "User Account
Deleted") {
                    notice.className = "alert
alert-success";

                    node.parentNode.removeChild(node);
                }
                else {
                    notice.className = "alert
alert-danger";
                }

                document.getElementById("notice").innerHTML
= resp;

                document.getElementById("side").innerHTML =
"";
            }
        }
        xmlhttp.open("GET","users/delete/" +
idToDel,true);

        xmlhttp.setRequestHeader("ajaxOnly","yes");
        xmlhttp.send();
    }

    function displayDiv() {
        if(document.getElementById("uType").value
== "btAdmin") {
            document.getElementById("bcDiv").style.disp
lay = "block";

            document.getElementById("btDiv").style.disp
lay = "block";
        }
        else {
            document.getElementById("bcDiv").style.disp
lay = "none";

            document.getElementById("btDiv").style.disp
lay = "none";
        }
    }

    function getBusTerminals() {
        var        bcID        =
document.getElementById("bCompany").value;
        if (window.XMLHttpRequest) {
            xmlhttp=new XMLHttpRequest();
        }
        else {
            xmlhttp=new
ActiveXObject("Microsoft.XMLHTTP");
        }
        xmlhttp.onreadystatechange=function()
{
            if (xmlhttp.readyState==4    &&
xmlhttp.status==200) {
                var        node        =
document.getElementById("bTerminal");
                while(node.firstChild) {

                    node.removeChild(node.firstChild);
                }
                resp = xmlhttp.responseText;
                node.innerHTML = resp;
            }
        }

        xmlhttp.open("GET","busterminals/getTermina
ls/" + bcID,true);

        xmlhttp.setRequestHeader("ajaxOnly","yes");
        xmlhttp.send();
    }

</script>
</html>
viewHistory.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
?>
<!DOCTYPE html>
<html lang="en">
<head>

        <link                rel="stylesheet"
href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

```



```

<script
src="https://ajax.googleapis.com/ajax/libs/jque
ry/1.11.3/jquery.min.js"></script>
<script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3
.3.5/js/bootstrap.min.js"></script>

<meta charset = "utf-8">
<meta name = "viewport" content = "width
= device-width, initial-scale = 1">

<style>
  body {
    background-color: #D7D7D7;
  }
</style>

<title>Trip History</title>
</head>
<body onLoad = "updateHistory();">
  <div class = "container text-center">
    <h3><span class = "glyphicon
glyphicon-bed"></span> Trip History</h3>
    <div id = "notice"></div>
    <form class = 'form-inline' role =
'form' onSubmit = 'filter(); return false;'>
      <div class = "form-group">
        <div>
          <input type = "text" size =
"10" id = "bpNo" class = "form-control" name =
"bpNo" placeholder = "Plate Number" style =
"width: 300px;">
          <button type = "submit"
class = "btn btn-primary">Search Bus</button>
        </div>
      </div>
    </form>
    <table class = "table table-hover">
      <thead>
        <tr>
          <th>Time</th>
          <th></th>
          <th>Bus Plate No.</th>
          <th>Driver</th>
          <th>Conductor</th>
          <th>Route</th>
        </tr>
      </thead>
      <!-- Formatted like this in order
to remove the text childNodes of table-body -->
      <tbody id = "table-body"></tbody>
    </table>
  </div>

  <script>
    var w;
    var date = null;

    function filter() {
      var s =
document.getElementById("bpNo").value;
      var children =
document.getElementById("table-
body").childNodes;
      for(var i = 0; i <
children.length; i++) {
        if(s == "" ||
children[i].className == s)

```

```

      children[i].style.display =
"";
      else
        children[i].style.display =
"none";
    }
  }

  function updateHistory() {
    if(typeof(Worker) !==
"undefined") {
      if(typeof(w) == "undefined") {
        w = new
Worker("../scripts/update_history.js");
      }
      w.onmessage = function(event)
{
        var historyData =
event.data;
        if(date == null ||
historyData["date"] > date) {
          date =
historyData["date"];
          var historyList =
document.getElementById("table-body");
          var listIndex =
historyList.childNodes.length - 1;
          var arrayIndex =
historyData["trips"].length - 1;
          while(arrayIndex > -1) {
            if(listIndex > -1) {
              arrayIndex--;
              listIndex--;
            }
            else{
              var row =
document.createElement("tr");
              var dData =
document.createElement("td");
              var tData =
document.createElement("td");
              var bData =
document.createElement("td");
              var drData =
document.createElement("td");
              var cData =
document.createElement("td");
              var rData =
document.createElement("td");
              var d;
              var dString = "";

              if(historyData["trips"][arrayIndex][1] ==
"Departed") {
                d = new
Date(historyData["trips"][arrayIndex][0]["timeD
eparted"]);
              }
              else {
                d = new
Date(historyData["trips"][arrayIndex][0]["timeA
rrived"]);
              }
              dString +=
d.getFullYear() + "-";
              if((d.getMonth()+1) < 10)

```

```

                                dString +=
"0";
                                dString +=
(d.getMonth()+1) + "-";
                                if(d.getDate() <
10)
                                dString +=
"0";
                                dString +=
d.getDate() + " ";
                                if(d.getHours()
== 0)
                                dString +=
"12:";
                                if(d.getHours() < 10)
                                dString += "0"
+ d.getHours() + ":";
                                else
                                if(d.getHours() == 10 || d.getHours() == 11)
                                dString +=
d.getHours() + ":";
                                else
                                if(d.getHours() > 12) {
                                if(d.getHours() % 12 < 10)
                                dString +=
"0" + (d.getHours() % 12) + ":";
                                else {
                                dString +=
(d.getHours() % 12) + ":";
                                }
                                }
                                if(d.getMinutes()
< 10)
                                dString += "0"
+ d.getMinutes() + ":";
                                else
                                dString +=
d.getMinutes() + ":";
                                if(d.getSeconds()
< 10)
                                dString += "0"
+ d.getSeconds() + " ";
                                else
                                dString +=
d.getSeconds() + " ";
                                if(d.getHours() <
12)
                                dString +=
"am";
                                else
                                dString +=
"pm";
                                dData.innerHTML =
dString;
                                if(historyData["trips"][arrayIndex][1] ==
"Departed")
                                tData.innerHTML = "Departure";
                                else
                                tData.innerHTML = "Arrival";

                                bData.innerHTML =
historyData["trips"][arrayIndex][0]["busPlateNo
"];
                                drData.innerHTML
=
historyData["trips"][arrayIndex][0]["d1"].toUpp
erCase() + " " +
historyData["trips"][arrayIndex][0]["df"] + " "
+ historyData["trips"][arrayIndex][0]["dm"];
                                cData.innerHTML =
historyData["trips"][arrayIndex][0]["c1"].toUpp
erCase() + " " +
historyData["trips"][arrayIndex][0]["cf"] + " "
+ historyData["trips"][arrayIndex][0]["cm"];
                                rData.innerHTML =
historyData["trips"][arrayIndex][0]["routeFrom"
] + " - " +
historyData["trips"][arrayIndex][0]["routeTo"];
                                row.className =
historyData["trips"][arrayIndex][0]["busPlateNo
"];
                                row.appendChild(dData);
                                row.appendChild(tData);
                                row.appendChild(bData);
                                row.appendChild(drData);
                                row.appendChild(cData);
                                row.appendChild(rData);
                                historyList.insertBefore(row,
historyList.childNodes[0]);
                                arrayIndex--;
                                }
                                }
                                }
                                }
                                w.postMessage("Hello");
                                } else {
                                document.getElementById('notice').className
= "alert alert-danger";
                                document.getElementById('notice').innerHTML
= "Sorry, your web browser doesn't support web
workers.";
                                }
                                }
                                </script>
                                </body>
                                </html>
                                viewRoute.php
                                <?php
                                defined('BASEPATH') OR exit('No direct script
access allowed');
                                ?>
                                <!DOCTYPE html>
                                <html lang="en">
                                <head>
                                <link
                                rel="stylesheet"
                                href="http://maxcdn.bootstrapcdn.com/bootstrap/
3.3.5/css/bootstrap.min.css">

```

```

<script
src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
<script
src="http://maxcdn.bootstrapcdn.com/bootstrap/3.3.5/js/bootstrap.min.js"></script>
<script
src="http://maps.googleapis.com/maps/api/js"></script>

<meta charset = "utf-8">
<meta name = "viewport" content = "width = device-width, initial-scale = 1">

<style>
  body {
    background-color: #D7D7D7;
  }
</style>

<script>
  var map;
  var myCenter = new
google.maps.LatLng(14.5980716,120.9796513);

  var routePath = [];
  var markers = [];

  <?php
foreach($busRoute["routePoints"] as $r):?>
  routePath.push({
    lat: <?php echo $r ->
stopPointLat;?>,
    lng: <?php echo $r ->
stopPointLong;?>
  });
<?php endforeach;?>

  function initialize() {
    var mapProp = {
      center: myCenter,
      zoom: 7,
      mapTypeId:
google.maps.MapTypeId.ROADMAP
    };
    map = new
google.maps.Map(document.getElementById("map"),
mapProp);
    var route = new
google.maps.Polyline({
      path: routePath,
      geodesic: true,
      strokeColor: '#FF0000',
      strokeOpacity: 0.80,
      strokeWeight: 2,
      map: map
    });

    var bounds = new
google.maps.LatLngBounds();
    for(var i = 0; i <
routePath.length; i++) {
      markers.push(new
google.maps.LatLng(routePath[i]['lat'],routePat
h[i]['lng']));

      bounds.extend(markers[markers.length-1]);
    }
    map.fitBounds(bounds);

```

```

    var sourceMarker = new
google.maps.Marker({
      map: map,
      position: markers[0]
    });
    var destMarker = new
google.maps.Marker({
      map: map,
      position:
markers[markers.length-1]
    });
    var sourceInfoWindow = new
google.maps.InfoWindow({
      content: "From: <?php echo
$busRoute["routeInfo"][0] -> routeFrom;?>"
    });
    var destInfoWindow = new
google.maps.InfoWindow({
      content: "To: <?php echo
$busRoute["routeInfo"][0] -> routeTo;?>"
    });
    sourceInfoWindow.open(map,
sourceMarker);

    destInfoWindow.open(map,destMarker);
  }

  google.maps.event.addDomListener(window,
'load', initialize);
</script>

<title>Route Information</title>
</head>
<body>
  <div class = "container-fluid">
    <h1 class = "text-center"><span class
= "glyphicon glyphicon-road"></span> Route
Information</h1>
    <div class = "container col-sm-6">
      <div style = "width: 700px;
height: 500px;" id = "map"></div>
    </div>
    <div class = "container col-sm-6">
      <dl class = "dl-horizontal">
        <dt>From:</dt>
        <dd><?php echo
$busRoute['routeInfo'][0] -> routeFrom;?></dd>
        <dt>To:</dt>
        <dd><?php echo
$busRoute['routeInfo'][0] -> routeTo;?></dd>
        <dt>Other Details:</dt>
        <br/>
        <dd><?php echo
$busRoute['routeInfo'][0]
->
routeDetails;?></dd>
      </dl>
    </div>
  </div>
</body>
</html>
BusCompanies.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');

class BusCompanies extends CI_Controller {

  function __construct() {

```

```

        parent::__construct();
        $this -> load -> model('buscompany', '',
TRUE);
        $this -> load -> helper('html');
        $this -> load -> library('user_agent');
    }

    function index() {
        $data['busCompanies'] = $this ->
buscompany -> viewAll();
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['username'] =
$session_data["uName"];
            $data['userID'] =
$session_data["userID"];
            $data['usertype'] =
$session_data["uType"];
            if($data['usertype'] == 'sAdmin') {
                $this -> load ->
view('templates/header_sAdmin', $data);
                $this -> load -> helper('form');
                $this -> load ->
view('viewall_companies', $data);
            }
            else {
                $this -> load ->
view('templates/header_btAdmin', $data);
            }
            else {
                $this -> load ->
view('templates/header_default');
            }
        }

        function check() {
            if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
                if($this -> session ->
userdata('logged_in')) {
                    $session_data = $this -> session
-> userdata('logged_in');
                    $data['usertype'] =
$session_data["uType"];
                    $data['username'] =
$session_data["uName"];

                    if($data['usertype'] == 'sAdmin')
{
                        $bcName = $this -> input ->
post('bcName');

                        $a = $this -> buscompany ->
check($bcName);
                        if($a)
                            echo "Available";
                        else
                            echo "Not Available";
                    }
                }
            }
        }

        function add() {

```

```

            if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
                if($this -> session ->
userdata('logged_in')) {
                    $session_data = $this -> session
-> userdata('logged_in');
                    $data['usertype'] =
$session_data["uType"];
                    $data['username'] =
$session_data["uName"];

                    if($data['usertype'] == 'sAdmin')
{
                        $bcName = $this -> input ->
post('bcName');
                        $query = $this -> buscompany -
> add($bcName);
                        if($query) {
                            echo "Success";
                        }
                        else
                            echo "Fail";
                    }
                }
            }

            function edit() {
                if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
                    if($this -> session ->
userdata('logged_in')) {
                        $session_data = $this -> session
-> userdata('logged_in');
                        $data['usertype'] =
$session_data["uType"];
                        $data['username'] =
$session_data["uName"];

                        if($data['usertype'] == 'sAdmin')
{
                            $bcName = $this -> input ->
post('bcName');
                            $id = $this -> input ->
post('id');

                            $query = $this -> buscompany -
> edit($id, $bcName);
                            if($query) {
                                echo "Success";
                            }
                            else
                                echo "Fail";
                        }
                    }
                }
            }

            function setStatus() {
                if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
                    if($this -> session ->
userdata('logged_in')) {
                        $session_data = $this -> session
-> userdata('logged_in');
                        $data['usertype'] =
$session_data["uType"];
                        $data['username'] =
$session_data["uName"];

```

```

        if($data['usertype'] == 'sAdmin')
    {
        $id      = $this -> input ->
post('id');
        $status  = $this -> input
-> post('status');

        $query = $this -> buscompany -
> setStatus($id, $status);
        if($query) {
            echo "Success";
        }
        else
            echo "Fail";
    }
}

function deleteCompany() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session
-> userdata('logged_in');
            $data['usertype']
=$session_data["uType"];
            $data['username']
=$session_data["uName"];

            if($data['usertype'] == 'sAdmin')
        {
            $id      = $this -> input ->
post('id');

            $query = $this -> buscompany -
> del($id);
            if($query) {
                echo "Success";
            }
            else
                echo "Fail";
        }
    }
}

}

Buses.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');

class Buses extends CI_Controller {

    function __construct() {
        parent::__construct();
        $this -> load -> model('bus', '', TRUE);
        $this -> load -> helper('html');
        $this -> load -> library('user_agent');
    }

    function index() {
        $data['isAdmin'] = false;
        if($this -> session ->
userdata('logged_in')) {

```

```

            $session_data = $this -> session ->
userdata('logged_in');
            $data['username']
=$session_data["uName"];
            $data['userID']
=$session_data["userID"];
            $data['usertype']
=$session_data["uType"];
            if($data['usertype'] == 'sAdmin') {
                $data['buses'] = $this -> bus ->
viewAll();
                $data['busData'] = $this -> bus -
> getRegisteredBuses();
                $data['isAdmin'] = true;
                $this -> load ->
view('templates/header_sAdmin', $data);
                $this -> load ->
view('viewall_buses', $data);
            }
            else {
                $data['buses'] = $this -> bus ->
viewAllComp($session_data["bCompanyID"]);
                $data['busData'] = $this -> bus -
> getRegisteredBuses();
                $data['isAdmin'] = false;
                $data['bTerminalID']
=$session_data["bTerminalID"];
                $this -> load ->
view('templates/header_btAdmin', $data);
                $this -> load ->
view('viewall_buses', $data);
            }
        }
    }
}

function addBus() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session
-> userdata('logged_in');
            $data['username']
=$session_data["uName"];
            $data['userID']
=$session_data["userID"];
            $data['usertype']
=$session_data["uType"];
            if($data['usertype'] == 'sAdmin')
        {
            $this -> load ->
helper('form');
            $this -> load ->
model('buscompany', '', TRUE);
            $data['companies'] = $this ->
buscompany -> viewAll();
            $data['add'] = TRUE;
            $this -> load ->
view('busForm', $data);
        }
        else {
            $this -> load ->
view('error_page');
        }
    }
}

```

```

    }
    else {
        $this -> load ->
view('error_page');
    }
}
}

function setStatus() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session
-> userdata('logged_in');
            $data['usertype'] =
$session_data['uType'];
            $data['username'] =
$session_data['uName'];

            if($data['usertype'] == 'sAdmin')
{
                $id = $this -> input ->
post('id');
                $status = $this -> input
-> post('status');

                if($status == "Active")
                    $suspended = false;
                else
                    $suspended = true;
                $query = $this -> bus ->
setStatus($id, $suspended);
                if($query) {
                    echo "Success";
                }
                else
                    echo "Fail";
            }
        }
    }
}

function setStatusA() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session
-> userdata('logged_in');
            $data['usertype'] =
$session_data['uType'];
            $data['username'] =
$session_data['uName'];

            if($data['usertype'] ==
'btAdmin') {
                $id = $this -> input ->
post('id');
                $av = $this -> input ->
post('available');

                $inTrip = $this -> bus ->
inTrip($id);

                if(!$inTrip) {
                    $query = $this -> bus ->
setStatusA($id, $av);
                    if($query) {

```

```

                echo "Success";
            }
            else
                echo "Fail";
        }
    }
    else {
        echo "The bus is still on a
trip.";
    }
}

function ab() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session
-> userdata('logged_in');
            $data['usertype'] =
$session_data['uType'];
            $data['username'] =
$session_data['uName'];

            if($data['usertype'] == 'sAdmin')
{
                $plateNo = $this -> input
-> post('bpNo');
                $busCompanyID = $this -> input
-> post('busCompanyID');
                $q = $this -> bus ->
add($plateNo, $busCompanyID);
                if($q) {
                    echo "Success";
                }
                else {
                    echo "ERROR";
                }
            }
        }
    }
}

function deleteBus() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session
-> userdata('logged_in');
            $data['usertype'] =
$session_data['uType'];
            $data['username'] =
$session_data['uName'];

            if($data['usertype'] == 'sAdmin')
{
                $plateNo = $this -> input
-> post('id');
                $q = $this -> bus ->
delete($plateNo);
                if($q) {
                    echo "Success";
                }
                else {
                    echo "ERROR";
                }
            }
        }
    }
}

```

```

    }
    }
}

function busMap() {
    if($this->session->userdata('logged_in')) {
        $session_data = $this->session->userdata('logged_in');
        $data['usertype'] = $session_data['uType'];
        $data['username'] = $session_data['uName'];

        if($data['usertype'] == 'sAdmin') {
            $data['buses'] = $this->bus->getPlateNos();
            $data['busData'] = $this->bus->getLocations($data['buses']);
            $this->load->view('templates/header_sAdmin', $data);
            $this->load->view('view_busMap', $data);
        }
        else {
            $data['buses'] = $this->bus->getPlateNos($session_data["bCompanyID"]);
            $data['busData'] = $this->bus->getLocations($data['buses']);
            $this->load->view('templates/header_btAdmin', $data);
            $this->load->view('view_busMap', $data);
        }
        else {
            $this->load->view('templates/header_default');
            $this->load->view('error_page');
        }
    }

    function getLocation() {
        if(isset($this->input->request_headers()['ajaxOnly'])) {
            if($this->session->userdata('logged_in')) {
                $session_data = $this->session->userdata('logged_in');
                $data['usertype'] = $session_data['uType'];
                $data['username'] = $session_data['uName'];
                $session_data['uName'];

                if($data['usertype'] == 'sAdmin')
                {
                    $locationData = array();
                    $b = $this->bus->getPlateNos();
                    array_push($locationData, time());
                    array_push($locationData, $this->bus->getLocations($b));
                    echo json_encode($locationData);
                }
            }
        }
    }
}

```

```

        else if($data['usertype'] == 'btAdmin') {
            $locationData = array();
            $b = $this->bus->getPlateNos($session_data["bCompanyID"]);
            array_push($locationData, time());
            array_push($locationData, $this->bus->getLocations($b));
            echo json_encode($locationData);
        }
    }
}

?>
BusPersonnels.php
<?php
defined('BASEPATH') OR exit('No direct script access allowed');

class BusPersonnels extends CI_Controller {

    function __construct() {
        parent::__construct();
        $this->load->helper('url');
        $this->load->model('buspersonnel', '', TRUE);
        $this->load->helper('html');
        $this->load->library('user_agent');
    }

    function index() {
        if($this->session->userdata('logged_in')) {
            $session_data = $this->session->userdata('logged_in');
            $data['username'] = $session_data['uName'];
            $data['userID'] = $session_data['userID'];
            $data['usertype'] = $session_data['uType'];
            if($data['usertype'] == 'sAdmin') {
                $data['busPersonnels'] = $this->buspersonnel->viewAll();
                $this->load->view('templates/header_sAdmin', $data);
                $this->load->helper('form');
                $this->load->view('viewall_personnels', $data);
            }
            else {
                $this->load->view('templates/header_btAdmin', $data);
            }
        }
        else {
            $this->load->view('templates/header_default');
            $this->load->view('error_page');
        }
    }

    function editPersonnel($id) {
        if($this->session->userdata('logged_in')) {

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        $session_data = $this -> session ->
userdata('logged_in');
        $data['usertype'] =
$session_data["uType"];
        $data['username'] =
$session_data["uName"];

        $this -> load -> model('buscompany',
'', TRUE);
        $this -> load -> model('busterminal',
'', TRUE);

        $data['busCompanies'] = $this ->
buscompany -> viewAll();
        $data['busPersonnel'] = $this ->
buspersonnel -> get($id);
        $data['busPersonnel'][0] ->
busPersonnelID = $id;

        $this -> load ->
helper(array('form'));
        if($data['usertype'] == 'sAdmin') {
            $this -> load -> helper('form');
            $this -> load ->
view('editPersonnel', $data);
        }
    }

    function addPersonnel() {
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['usertype'] =
$session_data["uType"];
            $data['username'] =
$session_data["uName"];

            $this -> load -> model('buscompany',
'', TRUE);

            $data['busCompanies'] = $this ->
buscompany -> viewAll();
            $this -> load ->
helper(array('form'));
            if($data['usertype'] == 'sAdmin') {
                $this -> load ->
view('templates/header_sAdmin', $data);
                $this -> load -> helper('form');
                $this -> load ->
view('addPersonnel', $data);
            }
        }

        function edit() {
            if($this -> session ->
userdata('logged_in')) {
                $session_data = $this -> session ->
userdata('logged_in');
                $data['usertype'] =
$session_data["uType"];
                $data['username'] =
$session_data["uName"];

                $this -> load -> model('buscompany',
'', TRUE);

                $data['busCompanies'] = $this ->
buscompany -> viewAll();
                $this -> load ->
helper(array('form'));
                if($data['usertype'] == 'sAdmin') {
                    $data['busCompanies'] = $this ->
buscompany -> viewAll();
                    $this -> load ->
helper(array('form'));
                    if($data['usertype'] == 'sAdmin') {
                        $lName = $this -> input ->
post('lName');
                        $fName = $this -> input ->
post('fName');
                        $mName = $this -> input ->
post('mName');
                        $ssn = $this -> input ->
post('ssn');
                        $bDay = $this -> input ->
post('bDay');
                        $address = $this -> input ->
post('address');
                        $bCompany = $this -> input ->
post('bCompany');
                        $pType = $this -> input ->
post('pType');
                        $licenseNo = $this -> input ->
post('lNo');
                        $expDay = $this -> input ->
post('eDate');
                        $bpID = $this -> input ->
post('bpID');

                        $this -> load ->
model('busdriver', '', TRUE);

                        //$this -> busdriver ->
delete($bpID);

                        $q = $this -> buspersonnel ->
edit($bpID, $lName, $fName, $mName, $ssn,
$bDay, $address, $bCompany, $pType);

                        if($q && $pType == 'Driver') {
                            $this -> busdriver ->
update($bpID, $licenseNo, $expDay);
                        }

                        header('Location:'.site_url('buspersonnels'
));
                    }
                }
            }

            function add() {
                if($this -> session ->
userdata('logged_in')) {
                    $session_data = $this -> session ->
userdata('logged_in');
                    $data['usertype'] =
$session_data["uType"];
                    $data['username'] =
$session_data["uName"];

                    $this -> load -> model('buscompany',
'', TRUE);

                    $data['busCompanies'] = $this ->
buscompany -> viewAll();
                    $this -> load ->
helper(array('form'));
                    if($data['usertype'] == 'sAdmin') {

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        $lName = $this -> input ->
post('lName');
        $fName = $this -> input ->
post('fName');
        $mName = $this -> input ->
post('mName');
        $ssn = $this -> input ->
post('ssn');
        $bDay = $this -> input ->
post('bDay');
        $address = $this -> input ->
post('address');
        $bCompany = $this -> input ->
post('bCompany');
        $pType = $this -> input ->
post('pType');
        $licenseNo = $this -> input ->
post('lNo');
        $expDay = $this -> input ->
post('eDate');

        $id = $this -> buspersonnel ->
add($lName, $fName, $mName, $ssn, $bDay,
$address, $bCompany, $pType);

        if($pType == 'Driver') {
            $this -> load ->
model('busdriver', '', TRUE);
            $this -> busdriver -> add($id,
$licenseNo, $expDay);
        }

        $path = realpath(APPPATH .
"../uploads/profile/");
        $config = array(
            'upload_path' => $path,
            'allowed_types' =>
'jpg|jpeg|png',
            'width' => '192',
            'height' => '192',
            'file_name' => $id . ".jpg"
        );
        $this -> load ->
library('upload', $config);
        if(!$this -> upload ->
do_upload()) {
            $data['error'] = $this ->
upload -> display_errors();
            $this -> load ->
view('templates/header_sAdmin', $data);
            $this -> load ->
helper('form');
            $this -> load ->
view('addPersonnel', $data);
        }
        else {
            $this -> buspersonnel ->
addPhoto($id);

            header('Location:'.site_url('buspersonnels'
));
        }
    }
}
}
}

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function view($id) {
    if($this -> session ->
userdata('logged_in')) {
        if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
            $data['personnel'] = $this ->
buspersonnel -> get($id);
            $data['bpID'] = $id;
            $this -> load ->
view('view_personnel', $data);
        }
    }
}

function delete($id) {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session
-> userdata('logged_in');
            $data['usertype'] =
$session_data["uType"];
            if($data['usertype'] == 'sAdmin')
{
                if(unlink('uploads/profile/'. $id . '.jpg')) {
                    $query = $this ->
buspersonnel -> del($id);
                    echo "Bus Personnel Record
Deleted";
                }
                else
                    echo "ERROR!!!";
            }
            else {
                echo "Invalid";
            }
        }
        else {
            echo "Invalid";
        }
    }
    else {
        show_404();
    }
}

function editPhoto() {
    $id = $this -> input -> post('epID');
    $path = realpath(APPPATH .
"../uploads/profile/");
    $config = array(
        'upload_path' => $path,
        'allowed_types' => 'jpg|jpeg|png',
        'width' => '192',
        'height' => '192',
        'file_name' => $id . ".jpg",
        'overwrite' => TRUE
    );
    $this -> load -> library('upload',
$config);
    if(!$this -> upload -> do_upload()) {
        echo "Error";
    }
    else {
        header('Location:'.site_url('buspersonnels'
));
    }
}

```



```

    }
}

function add() {
    if(isset($this->input->request_headers()['ajaxOnly'])) {
        if($this->session->userdata('logged_in')) {
            $session_data = $this->session->userdata('logged_in');
            $data['usertype'] = $session_data["uType"];
            $data['username'] = $session_data["uName"];

            if($data['usertype'] == 'sAdmin')
            {
                $rTo = $this->input->post('rTo');
                $rFrom = $this->input->post('rFrom');
                $rDetails = $this->input->post('rDetails');
                $i = 0;
                $p = $this->input->post('lat'.'.i');
                $rPoints = array();
                while($this->input->post('lat'.'.i')) {
                    $p = $this->input->post('lat'.'.i');
                    $p2 = $this->input->post('lng'.'.i');
                    array_push($rPoints, array("lat" => $p, "lng" => $p2));
                    $i++;
                }
                $pointIDArray = $this->fixPoints($rPoints);
                $q = $this->busroute->addRoute($rTo, $rFrom, $rDetails, $pointIDArray);
                if($q) {
                    echo "Route Added";
                }
                else {
                    echo "ERROR!";
                }
            }
            else if($data['usertype'] == 'btAdmin') {
                $rID = $this->input->post('rID');
                $epA = $this->input->post('endPA');
                $epB = $this->input->post('endPB');
                $q = $this->busroute->addOutgoingRoute($rID, $epA, $epB);
                if($q) {
                    echo "Route Added";
                }
                else {
                    echo "ERROR!";
                }
            }
        }
    }
}
}

```

```

function delete() {
    if(isset($this->input->request_headers()['ajaxOnly'])) {
        if($this->session->userdata('logged_in')) {
            $session_data = $this->session->userdata('logged_in');
            $data['usertype'] = $session_data["uType"];
            $data['username'] = $session_data["uName"];

            if($data['usertype'] == 'sAdmin')
            {
                $rID = $this->input->post('rID');
                $q = $this->busroute->delete($rID);
                if($q) {
                    echo "Bus Route Record Deleted";
                }
                else {
                    echo "ERROR!";
                }
            }
            else if($data['usertype'] == 'btAdmin') {
                $rID = $this->input->post('rID');
                $q = $this->busroute->deleteT($rID);
                if($q) {
                    echo "Bus Route Record Deleted";
                }
                else {
                    echo "ERROR!";
                }
            }
        }
    }
}

function edit() {
    if(isset($this->input->request_headers()['ajaxOnly'])) {
        if($this->session->userdata('logged_in')) {
            $session_data = $this->session->userdata('logged_in');
            $data['usertype'] = $session_data["uType"];
            $data['username'] = $session_data["uName"];

            if($data['usertype'] == 'sAdmin')
            {
                $rID = $this->input->post('rID');
                $rTo = $this->input->post('rTo');
                $rFrom = $this->input->post('rFrom');
                $rDetails = $this->input->post('rDetails');
                $i = 0;
            }
        }
    }
}

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    $p = $this -> input ->
post('lat'.'.i);
    $rPoints = array();
    while($this -> input ->
post('lat'.'.i)) {
    $p = $this -> input ->
post('lat'.'.i);
    $p2 = $this -> input ->
post('lng'.'.i);
        array_push($rPoints,
array("lat" => $p, "lng" => $p2));
        $i++;
    }
    $pointIDArray = $this ->
fixPoints($rPoints);
    $q = $this -> busroute ->
editRoute($rID, $rTo, $rFrom, $rDetails,
$pointIDArray);
    if($q) {
        echo "Route Updated";
    }
    else {
        echo "ERROR!";
    }
}
}
}

function viewMap() {
    $rID = $this -> input -> post('rID');
    $rInfo = $this -> busroute ->
getMapInfo($rID);
    echo json_encode($rInfo);
}

function fixPoints($rPoints) {
    $this -> load -> model('stoppoint');
    $extraPoints = array();
    $pointsID = array();
    for($i = 0; $i < count($rPoints); $i++)
{
        $r = $rPoints[$i];
        $id = $this -> stoppoint ->
getIdB($r['lat'], $r['lng']);
        if($id == -1) {
            array_push($extraPoints, array(
                "stopPointType" => "Stop",
                "stopPointLat" => $r['lat'],
                "stopPointLong" => $r['lng']
            ));
        }
    }
    if(count($extraPoints) != 0)
        $this -> stoppoint ->
addBatch($extraPoints);
    for($i = 0; $i < count($rPoints); $i++)
{
        $r = $rPoints[$i];
        $id = $this -> stoppoint ->
getIdB($r['lat'], $r['lng']);
        array_push($pointsID, $id);
    }
    return $pointsID;
}

function viewRouteInfo($rID) {
    $data['busRoute'] = $this -> busroute ->
getRoute($rID);

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        $data['isAdmin'] = false;
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['username'] =
            $session_data["uName"];
            $data['userID'] =
            $session_data["userID"];
            $data['usertype'] =
            $session_data["uType"];
            if($data['usertype'] == 'sAdmin') {
                $this -> load ->
view('templates/header_sAdmin', $data);
            }
            else {
                $this -> load ->
view('templates/header_btAdmin', $data);
            }
        }
        else {
            $this -> load ->
view('templates/header_default');
        }
        $this -> load -> view('viewRoute',
$data);
    }
}

?>
BusTerminals.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');

class BusTerminals extends CI_Controller {

    function __construct() {
        parent::__construct();
        $this -> load -> model('busterminal',
'', TRUE);
        $this -> load -> helper('html');
        $this -> load -> library('user_agent');
    }

    function index() {
        $data['busTerminals'] = $this ->
busterminal -> viewAll();
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['username'] =
            $session_data["uName"];
            $data['userID'] =
            $session_data["userID"];
            $data['usertype'] =
            $session_data["uType"];
            if($data['usertype'] == 'sAdmin') {
                $this -> load ->
view('templates/header_sAdmin', $data);
            }
            else {
                $this -> load ->
view('templates/header_btAdmin', $data);
            }
        }
        else {

```

```

        $this      ->      load      ->
view('templates/header_default');
    }
    $this      ->      load      ->
view('viewall_terminals', $data);
}

function addTerminal() {
    if($this      ->      session      ->
userdata('logged_in')) {
        $session_data = $this -> session ->
userdata('logged_in');
        $data['username']
=$session_data["uName"];
        $data['userID']
=$session_data["userID"];
        $data['usertype']
=$session_data["uType"];
        if($data['usertype'] == 'sAdmin') {
            $this      ->      load      ->
view('templates/header_sAdmin', $data);
            $this -> load -> helper('form');
            $this      ->      load      ->
model('busCompany');
            $data['busCompanies'] = $this ->
busCompany -> viewAll();
            $this      ->      load      ->
view('addTerminal', $data);
        }
        else {
            $this      ->      load      ->
view('templates/header_btAdmin', $data);
            $this      ->      load      ->
view('error_page');
        }
    }
    else {
        $this      ->      load      ->
view('templates/header_default');
        $this -> load -> view('error_page');
    }
}

function editTerminal($id) {
    if($this      ->      session      ->
userdata('logged_in')) {
        $session_data = $this -> session ->
userdata('logged_in');
        $data['username']
=$session_data["uName"];
        $data['userID']
=$session_data["userID"];
        $data['usertype']
=$session_data["uType"];
        if($data['usertype'] == 'sAdmin') {
            $this      ->      load      ->
view('templates/header_sAdmin', $data);
            $this -> load -> helper('form');
            $this      ->      load      ->
model('busCompany');
            $data['busCompanies'] = $this ->
busCompany -> viewAll();
            $data['busTerminal'] = $this ->
busterminal -> getTerminal($id);
            if($data['busTerminal'])
                $this      ->      load      ->
view('editTerminal', $data);
            else

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        $this      ->      load      ->
view('error_page');
    }
    else {
        $this      ->      load      ->
view('templates/header_btAdmin', $data);
        $this      ->      load      ->
view('error_page');
    }
}

function add() {
    if(isset($this      ->      input      ->
request_headers()['ajaxOnly'])) {
        if($this      ->      session      ->
userdata('logged_in')) {
            $session_data = $this -> session
-> userdata('logged_in');
            $data['usertype']
=$session_data["uType"];
            $data['username']
=$session_data["uName"];

            if($data['usertype'] == 'sAdmin')
{
                $btName = $this -> input ->
post('btName');
                $btType = $this -> input ->
post('btType');
                $bCompany = $this -> input
-> post('bCompany');
                $btLat = $this -> input
-> post('btLat');
                $btLong = $this -> input ->
post('btLong');

                $this      ->      load      ->
model('stoppoint', '', TRUE);

                $q1 = $this -> stoppoint ->
add($btName, $btLat, $btLong);

                if($q1) {
                    $btID = 0;
                    foreach($this -> stoppoint
-> getIdA($btName, $btLat, $btLong) as $s)
                        $btID = $s ->
stopPointID;
                    $q2 = $this -> busterminal
-> add($btID, $btType, $bCompany);
                    if($q2) {
                        echo "Bus Terminal
Added";
                    }
                    else {
                        echo "ERROR";
                    }
                }
                else {
                    echo "ERROR";
                }
            }
        }
    }
}

```

```

    }
}

function edit() {
    if(isset($this->input->request_headers()['ajaxOnly'])) {
        if($this->session->userdata('logged_in')) {
            $session_data = $this->session->userdata('logged_in');
            $data['usertype'] = $session_data['uType'];
            $data['username'] = $session_data['uName'];

            if($data['usertype'] == 'sAdmin') {
                $btName = $this->input->post('btName');
                $btType = $this->input->post('btType');
                $bCompany = $this->input->post('bCompany');
                $btLat = $this->input->post('btLat');
                $btLong = $this->input->post('btLong');
                $btID = $this->input->post('btID');

                $this->load->model('stoppoint', '', TRUE);

                $q1 = $this->stoppoint->edit($btID, $btName, $btLat, $btLong);

                if($q1) {
                    $q2 = $this->busterminal->edit($btID, $btType, $bCompany);
                    if($q2) {
                        echo "Bus Terminal Updated";
                    }
                }
            }
        }
    }
}

function getTerminals($bcID) {
    if(isset($this->input->request_headers()['ajaxOnly'])) {
        $busTerminals = $this->busterminal->getAvailableTerminals($bcID);
        echo "<option disabled selected>Bus Terminal</option>";
        foreach($busTerminals as $b) {
            echo "<option value = \"\" . $b->stopPointID . \"\> \" . $b->stopPointName . \"</option>\"";
        }
    }
}

```

```

function getLocation() {
    if(isset($this->input->request_headers()['ajaxOnly'])) {
        $data['sLatitude'] = $this->input->request_headers()["sLat"];
        $data['sLongitude'] = $this->input->request_headers()["sLong"];
        echo $data['sLatitude'] . " " . $data['sLongitude'];
    }
}

function delete($id) {
    if(isset($this->input->request_headers()['ajaxOnly'])) {
        if($this->session->userdata('logged_in')) {
            $session_data = $this->session->userdata('logged_in');
            $data['usertype'] = $session_data['uType'];
            if($data['usertype'] == 'sAdmin') {
                $query = $this->busterminal->delete($id);
                if($query) {
                    $this->load->model('stoppoint', '', TRUE);
                    $query = $this->stoppoint->delete($id);
                    if($query)
                        echo "Bus Terminal Record Deleted";
                    else
                        echo "ERROR!!!";
                }
            }
        }
    }
}

function Home.php
<?php
defined('BASEPATH') OR exit('No direct script access allowed');
class Home extends CI_Controller {

    function __construct() {
        parent::__construct();
    }

    function index()
    {
        if($this->session->userdata('logged_in')) {
            $session_data = $this->session->userdata('logged_in');

```

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        $data['username'] =
$session_data["uName"];
        $data['userID'] =
$session_data["userID"];
        $data['usertype'] =
$session_data["uType"];
        if($data['usertype'] == 'sAdmin') {
            $this -> load ->
view('templates/header_sAdmin', $data);
            $this -> load ->
view('home_sAdmin', $data);
        }
        else {
            $this -> load ->
view('templates/header_btAdmin', $data);
            $this -> load ->
view('home_btAdmin');
        }
        else {
            $this -> load ->
view('templates/header_default');
            $this -> load -> view('home');
        }
    }

    function complaint() {
        $data['isAdmin'] = false;
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['username'] =
$session_data["uName"];
            $data['userID'] =
$session_data["userID"];
            $data['usertype'] =
$session_data["uType"];
            if($data['usertype'] == 'sAdmin') {
                $this -> load ->
view('templates/header_sAdmin', $data);
                $this -> load ->
view('error_page', $data);
            }
            else {
                $this -> load ->
view('templates/header_btAdmin', $data);
                $this -> load ->
view('error_page');
            }
        }
        else {
            $this->load->helper(array('form',
'url'));
            $this -> load ->
view('templates/header_default');
            $this -> load ->
view('complaintForm');
        }
    }

    function about() {
        $data['isAdmin'] = false;
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['username'] =
$session_data["uName"];
            $data['userID'] =
$session_data["userID"];
            $data['usertype'] =
$session_data["uType"];
            if($data['usertype'] == 'sAdmin') {
                $this -> load ->
view('templates/header_sAdmin', $data);
            }
            else {
                $this->load->helper(array('form',
'url'));
                $this -> load ->
view('templates/header_btAdmin', $data);
            }
        }
        else {
            $this->load->helper(array('form',
'url'));
            $this -> load ->
view('templates/header_default');
            $this -> load -> view('about');
        }
    }

    function logout() {
        $this -> session ->
unset_userdata('logged_in');
        session_destroy();
        redirect('home', 'refresh');
    }
}

Login.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');

class Login extends CI_Controller {

    function __construct() {
        parent::__construct();
    }

    function index()
    {
        if($this -> session ->
userdata('logged_in')) {
            redirect('home', 'refresh');
        }
        else {
            $this -> load ->
helper(array('form'));
            $this -> load ->
view('templates/header_default');
            $this -> load -> view('login_page');
        }
    }
}

Reports.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');

class Reports extends CI_Controller {

    function __construct() {
        parent::__construct();
        $this -> load -> model('report', '',
TRUE);
        $this -> load -> helper('html');
        $this -> load -> library('user_agent');
    }
}

```

```

function viewAllReports() {
    $data['isAdmin'] = false;

    if($this -> session ->
userdata('logged_in')) {
        $session_data = $this -> session ->
userdata('logged_in');
        $data['username'] =
$session_data["uName"];
        $data['userID'] =
$session_data["userID"];
        $data['usertype'] =
$session_data["uType"];
        if($data['usertype'] == 'sAdmin') {

            date_default_timezone_set('Asia/Manila');
            if($this -> report ->
viewAllReports() == null) {
                $this -> report ->
addReport((date('m')-1), date('Y'));
            }
            else {
                $data['reports'] = $this ->
report -> viewAllReports();
                $month = $data['reports'][0] ->
reportMonth;
                $year = $data['reports'][0] ->
reportYear;
                if($month != date('m') ||
$year != date('Y')) {
                    $m = $month+1;
                    $y = $year;
                    while($m != (date('m')) ||
$y != date('Y')) {
                        if($m == 13) {
                            $y++;
                            $m = 1;
                        }
                        $this -> report ->
addReport($m, $y);
                        $m++;
                    }
                }
                $data['reports'] = $this ->
report -> viewAllReports();
                $this -> load ->
view('templates/header_sAdmin', $data);
                $this -> load ->
view('viewall_reports', $data);
            }
            else {
                $this -> load ->
view('templates/header_btAdmin', $data);
                $this -> load ->
view('error_page');
            }
            else {
                $this -> load ->
view('templates/header_default');
                $this -> load -> view('error_page');
            }
        }
    }

    function viewAllComplaints() {
        $data['isAdmin'] = false;

```

```

        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['username'] =
$session_data["uName"];
            $data['userID'] =
$session_data["userID"];
            $data['usertype'] =
$session_data["uType"];
            if($data['usertype'] == 'sAdmin') {
                $data['complaints'] = $this ->
report -> viewAllComplaints();
                $this -> load ->
view('templates/header_sAdmin', $data);
                $this -> load ->
view('viewall_complaints', $data);
            }
            else {
                $this -> load ->
view('templates/header_btAdmin', $data);
                $this -> load ->
view('error_page');
            }
            else {
                $this -> load ->
view('templates/header_default');
                $this -> load -> view('error_page');
            }
        }
    }

    function viewComplaint($complaintID) {
        $data['isAdmin'] = false;
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['usertype'] =
$session_data["uType"];
            if($data['usertype'] == 'sAdmin') {
                $cInfo = $this -> report ->
getComplaint($complaintID);
                foreach($cInfo as $c) {
                    echo json_encode($c);
                    break;
                }
            }
        }
    }

    function viewReport($reportID) {
        $data['isAdmin'] = false;
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['username'] =
$session_data["uName"];
            $data['userID'] =
$session_data["userID"];
            $data['usertype'] =
$session_data["uType"];
            if($data['usertype'] == 'sAdmin') {
                $data['report'] = $this -> report
-> getReport($reportID);
                $this -> load ->
view('templates/header_sAdmin', $data);

```



```

        $this -> load ->
view('view_report', $data);
    }
    else {
        $this -> load ->
view('templates/header_btAdmin', $data);
        $this -> load ->
view('error_page');
    }
    }
    else {
        $this -> load ->
view('templates/header_default');
        $this -> load -> view('error_page');
    }
}

function addComplaint(){
    $data['isAdmin'] = false;
    if($this -> session ->
userdata('logged_in')) {
        return false;
    }
    else {
        $cSender = $this -> input ->
post('cSender');
        $cIssue = $this -> input ->
post('cIssue');
        $cDetails = $this -> input ->
post('cDetails');

        $query = $this -> report ->
addComplaint($cSender, $cIssue, $cDetails);
        if($query) {
            echo "Report Sent";
        }
        else {
            echo "ERROR!";
        }
    }
}
}

?>
Trips.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');

class Trips extends CI_Controller {

    function __construct() {
        parent::__construct();
        $this -> load -> model('trip', '',
TRUE);
        $this -> load -> helper('html');
        $this -> load -> library('user_agent');
    }

    function index() {
        $data = array();
        $data['usertype'] = "Public";
        $data['bTerminalID'] = -1;
        $data['busTerminals'] = array();
        $data['triplist'] = array();
        $data['triplist']['outgoing'] = null;
        $data['triplist']['incoming'] = null;
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session ->
userdata('logged_in');
            $data['username'] =
            $session_data['uName'];
            $data['userID'] =
            $session_data['userID'];
            $data['usertype'] =
            $session_data['uType'];
            if($data['usertype'] == 'sAdmin') {
                $this -> load ->
model('busTerminal', '', TRUE);
                $data['busTerminals'] = $this ->
busTerminal -> viewAll();
                $this -> load ->
view('templates/header_sAdmin', $data);
            }
            else {
                $data['bTerminalID'] =
                $session_data["bTerminalID"];
                $data['triplist']['outgoing'] =
                $this -> trip ->
getOutgoingTrips($data['bTerminalID']);
                $data['triplist']['incoming'] =
                $this -> trip ->
getIncomingTrips($data['bTerminalID']);
                $this -> load ->
view('templates/header_btAdmin', $data);
            }
        }
        else {
            $this -> load -> model('busTerminal',
'', TRUE);
            $data['busTerminals'] = $this ->
busTerminal -> viewAll();
            $this -> load ->
view('templates/header_default');
        }
        $this -> load -> view('viewall_trips',
$data);
    }

    function getTrips() {
        if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
            $bTerminalID = $this -> input ->
post('bTerminalID');
            $this -> load -> model('busterminal',
'', TRUE);
            $trips['outgoing'] = $this ->
trip -> getOutgoingTrips($bTerminalID);
            $trips['incoming'] = $this ->
trip -> getIncomingTrips($bTerminalID);
            $trips['bTerminalData'] = $this ->
busterminal -> getTerminal($bTerminalID);
            echo json_encode($trips);
        }
    }

    function departTrip() {
        if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
            $tripID = $this -> input ->
post('tripID');
            $q = $this -> trip ->
departTrip($tripID);
            if($q) {
                echo "success";
            }
        }
    }
}

```

```

        else
            echo "ERROR";
    }
}

function arriveTrip() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        $tripID = $this -> input ->
post('tripID');
        $q = $this -> trip ->
arriveTrip($tripID);
        if($q) {
            echo "success";
        }
        else
            echo "ERROR";
    }
}

function getRouteID() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        $terminalRouteID = $this -> input ->
post('trID');
        $route = $this -> trip ->
getRouteID($terminalRouteID);
        foreach($route as $r) {
            echo $r -> routeID;
            break;
        }
    }
}

function getPersonnelInfo() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        $personnelID = $this -> input ->
post('pID');
        $this -> load ->
model('buspersonnel', '', TRUE);
        $pInfo = $this -> buspersonnel ->
get($personnelID);
        foreach($pInfo as $p) {
            $p -> busPersonnelID =
$personnelID;
            echo json_encode($p);
            break;
        }
    }
}

function dispatchBus() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        $pNo = $this -> input -> post("pNo");
        $rID = $this -> input -> post("rID");
        $dID = $this -> input -> post("dID");
        $cID = $this -> input -> post("cID");
        $num = $this -> input ->
post("numSeats");

        $q = $this -> trip -> dispatch($pNo,
$rID, $dID, $cID, $num);
        if($q) {
            echo "Trip Added";
        }
        else {
            echo "ERROR";
        }
    }
}

}

function updateSeat() {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        $tID = $this -> input ->
post("tripID");
        $num = $this -> input ->
post("numSeats");

        $q = $this -> trip ->
updateSeat($tID, $num);
        if($q) {
            echo "Success";
        }
        else {
            echo "ERROR";
        }
    }
}

function dispatch() {
    $data = array();
    $data['usertype'] = "Public";
    $data['bTerminalID'] = -1;
    $data['busTerminals'] = array();
    $data['tripList'] = array();
    if($this -> session ->
userdata('logged_in')) {
        $session_data = $this -> session ->
userdata('logged_in');
        $data['username'] =
$session_data["uName"];
        $data['userID'] =
$session_data["userID"];
        $data['usertype'] =
$session_data["uType"];
        if($data['usertype'] == 'sAdmin') {
            $this -> load ->
view('templates/header_sAdmin', $data);
            $this -> load ->
view('error_page');
        }
        else {
            $data['bTerminalID'] =
$session_data["bTerminalID"];
            $this -> load -> model('bus', '',
TRUE);
            $data['buses'] = $this -> bus ->
viewAll($session_data["bCompanyID"]);
            $this -> load ->
model('busroute', '', TRUE);
            $data['busRoutes'] = $this ->
busroute ->
viewAll($session_data["bTerminalID"]);
            $this -> load ->
model('buspersonnel', '', TRUE);
            $data['busDrivers'] = $this ->
buspersonnel ->
getDrivers($session_data["bCompanyID"]);
            $data['busConductors'] = $this ->
buspersonnel ->
getConductors($session_data["bCompanyID"]);
            $this -> load ->
view('templates/header_btAdmin', $data);
            $this -> load ->
view('dispatchBus');
        }
    }
}

```

```

    }
  }
  else {
    $this -> load ->
view('templates/header_default');
    $this -> load -> view('error_page');
  }
}

function viewHistory() {
  if($this -> session ->
userdata('logged_in')) {
    $session_data = $this -> session ->
userdata('logged_in');
    $data['username'] =
$session_data["uName"];
    $data['userID'] =
$session_data["userID"];
    $data['usertype'] =
$session_data["uType"];
    if($data['usertype'] == 'sAdmin') {
      $this -> load ->
view('templates/header_sAdmin', $data);
      $data['bTerminalID'] = "null";
      $data['trips'] = $this -> trip ->
getHistory();
    }
    else {
      $data['bTerminalID'] =
$session_data["bTerminalID"];
      $data['bCompanyID'] =
$session_data["bCompanyID"];
      $this -> load ->
view('templates/header_btAdmin', $data);
      $data['trips'] = $this -> trip ->
getHistory($data['bTerminalID']);
    }
    $this -> load -> view('viewHistory',
$data);
  }
  else {
    $this -> load ->
view('templates/header_default');
    $this -> load -> view('error_page');
  }
}

function getHistory() {
  if($this -> session ->
userdata('logged_in')) {
    date_default_timezone_set('Asia/Manila');
    $session_data = $this -> session ->
userdata('logged_in');
    $data['usertype'] =
$session_data["uType"];
    if($data['usertype'] == 'sAdmin') {
      $data['trips'] = $this -> trip ->
getHistory();
    }
    else {
      $data['trips'] = $this -> trip ->
getHistory(array($session_data['bTerminalID'],
$session_data['bCompanyID']));
    }
    $data['date'] = date("Y-m-d h:i:s");
    echo json_encode($data);
  }
}
}

```

```

}
Users.php
<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
class Users extends CI_Controller {

  function __construct() {
    parent::__construct();
    $this -> load -> model('user', '',
TRUE);
    $this -> load -> helper('html');
    $this -> load -> library('user_agent');
  }

  function index() {
    if($this -> session ->
userdata('logged_in')) {
      $session_data = $this -> session ->
userdata('logged_in');
      $data['username'] =
$session_data["uName"];
      $data['userID'] =
$session_data["userID"];
      $data['usertype'] =
$session_data["uType"];
      if($data['usertype'] == 'sAdmin') {
        $data['users'] = $this -> user ->
viewAll();
        $this -> load ->
view('templates/header_sAdmin', $data);
        $this -> load ->
view('viewall_users', $data);
      }
      else {
        $this -> load ->
view('templates/header_btAdmin', $data);
        $this -> load ->
view('error_page');
      }
    }
    else {
      $this -> load ->
view('templates/header_default');
      $this -> load -> view('error_page');
    }
  }

  function view($id) {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
      if($this -> session ->
userdata('logged_in')) {
        $session_data = $this -> session
-> userdata('logged_in');
        $data['username'] =
$session_data["uName"];
        $data['userID'] =
$session_data["userID"];
        $data['usertype'] =
$session_data["uType"];
        if($data['usertype'] == 'sAdmin')
{
          foreach($this -> user ->
view($id) as $u) {
            $data['user'] = $u;
            $u -> userID = $id;
          }
        }
      }
    }
  }
}

```

```

        $this -> load ->
view('view_user', $data);
    }
}
else {
    show_404();
}
}

function reset($id) {
    if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
        if($this -> session ->
userdata('logged_in')) {
            $session_data = $this -> session
-> userdata('logged_in');
            $data['usertype']
=$session_data["uType"];
            if($data['usertype'] == 'sAdmin')
{
                $query = $this -> user ->
reset($id);
                if($query)
                    echo "Password was reset.";
                else
                    echo "ERROR!!!";
            }
            else {
                $this -> load ->
view('templates/header_btAdmin', $data);
                $this -> load ->
view('error_page');
            }
        }
        else {
            $this -> load ->
view('templates/header_default');
            $this -> load ->
view('error_page');
        }
    }
    else {
        show_404();
    }
}

function changePassword() {
    if($this -> session ->
userdata('logged_in')) {
        $session_data = $this -> session ->
userdata('logged_in');
        $data['usertype']
=$session_data["uType"];
        $data['username']
=$session_data["uName"];
        $this -> load ->
helper(array('form'));
        if($data['usertype'] == 'sAdmin') {
            $this -> load ->
view('templates/header_sAdmin', $data);
        }
        $this -> load -> view('changePass');
    }
}

function cpass() {
    $this -> load ->
library('form_validation');

```

```

        $this -> form_validation ->
set_rules('pWord', 'Password',
'trim|required|callback_cp');
        $this -> form_validation -> run();
        redirect('home', 'refresh');
    }

    function addUser() {
        if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
            if($this -> session ->
userdata('logged_in')) {
                $session_data = $this -> session
-> userdata('logged_in');
                $data['usertype']
=$session_data["uType"];
                $data['username']
=$session_data["uName"];
            }
            $this -> load ->
model('buscompany', '', TRUE);
            $data['busCompanies'] = $this ->
buscompany -> viewAll();
            $this -> load ->
helper(array('form'));
            if($data['usertype'] == 'sAdmin')
{
                $this -> load ->
view('addUser', $data);
            }
        }
    }

    function au() {
        if(isset($this -> input ->
request_headers()['ajaxOnly'])) {
            if($this -> session ->
userdata('logged_in')) {
                $session_data = $this -> session
-> userdata('logged_in');
                $data['usertype']
=$session_data["uType"];
                $data['username']
=$session_data["uName"];
                $uType = $this -> input ->
request_headers()["uType"];
                $uName = $this -> input ->
request_headers()["uName"];
                $bCompany = $this -> input ->
request_headers()["bCompany"];
                $bTerminal = $this -> input ->
request_headers()["bTerminal"];
                if($data['usertype'] == 'sAdmin')
{
                    $exist = $this -> user ->
existing($uName);
                    if($exist) {
                        echo
"Username
exists.<br>";
                    }
                    else
                        $q1 = $this -> user ->
add($uName, $uType);
                    if($uType == "btAdmin") {
                        if($bCompany == "Bus
Company") {

```



```

    }

    function add($plateNo, $busCompanyID) {
        $mainDB = $this -> load ->
database('default', TRUE);

        $data = array(
            'busPlateNo' => $plateNo,
            'busCompanyID' => $busCompanyID,
            'busAvailable' => TRUE
        );
        $query = $mainDB -> insert('bus',
$data);
        return $query;
    }

    function setStatus($plateNo, $suspended) {
        $mainDB = $this -> load ->
database('default', TRUE);
        $data = array(
            'busSuspended' => $suspended
        );
        $mainDB -> where('busPlateNo',
$plateNo);
        $query = $mainDB -> update('bus',
$data);
        return $query;
    }

    function setStatusA($plateNo, $available) {
        $mainDB = $this -> load ->
database('default', TRUE);
        if($available == "true")
            $data = array(
                'busAvailable' => true
            );
        else
            $data = array(
                'busAvailable' => false
            );
        $mainDB -> where('busPlateNo',
$plateNo);
        $query = $mainDB -> update('bus',
$data);
        return $query;
    }

    function delete($plateNo) {
        $mainDB = $this -> load ->
database('default', TRUE);
        $mainDB -> where('busPlateNo',
$plateNo);
        $query = $mainDB -> delete('bus');
        return $query;
    }
}

?>
BusCompany.php
<?php

class BusCompany extends CI_Model {

    function viewAll() {
        $this -> db -> select('*');
        $this -> db -> from('buscompany');
        $this -> db ->
order_by('busCompanyName', 'asc');
    }

    function add($plateNo, $busCompanyID) {
        $query = $this -> db -> get();
        if($query -> num_rows() > 0) {
            return $query -> result();
        }
    }

    function check($bcName) {
        $this -> db -> select('*');
        $this -> db -> from('buscompany');
        $this -> db -> where('busCompanyName',
$bcName);
        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return FALSE;
        }
        else
            return TRUE;
    }

    function add($bcName) {
        $data = array(
            'busCompanyName' => $bcName,
            'busCompanyStatus' => 'Active'
        );
        $query = $this -> db ->
insert('buscompany', $data);
        return $query;
    }

    function edit($id, $bcName) {
        $data = array(
            'busCompanyName' => $bcName
        );
        $this -> db -> where('busCompanyID',
$id);
        $query = $this -> db ->
update('buscompany', $data);
        return $query;
    }

    function setStatus($id, $status) {
        $data = array(
            'busCompanyStatus' => $status
        );
        $this -> db -> where('busCompanyID',
$id);
        $query = $this -> db ->
update('buscompany', $data);
        return $query;
    }

    function del($id) {
        $this -> db -> where('busCompanyID',
$id);
        $query = $this -> db ->
delete('buscompany');
        return $query;
    }
}

?>
BusDriver.php
<?php

class BusDriver extends CI_Model {

```

```

function add($id, $licenseNo, $expDay) {
    $data = array(
        'busPersonnelID'      => $id,
        'licenseNo'           => $licenseNo,
        'expirationDate'      => $expDay
    );

    $this -> db -> insert('busdriver',
$data);
    return $this -> db -> insert_id();
}

function delete($id) {
    $this -> db -> where('busPersonnelID',
$id);
    $query = $this -> db ->
delete('busdriver');
    return $query;
}

function update($id, $licenseNo, $expDay) {
    $data = array(
        'licenseNo'           => $licenseNo,
        'expirationDate'      => $expDay
    );

    $this -> db -> where('busPersonnelID',
$id);
    $query = $this -> db ->
update('busdriver', $data);

    return $query;
}
}

?>
BusPersonnel.php
<?php

class BusPersonnel extends CI_Model {

    function viewAll() {
        $this -> db -> select('*');
        $this -> db -> from('buspersonnel');
        $this -> db ->
order_by('busPersonnelLName', 'asc');
        $this -> db ->
order_by('busPersonnelFName', 'asc');
        $this -> db ->
order_by('busPersonnelMName', 'asc');

        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
    }

    function getDrivers($bcID) {
        $this -> db -> select('*');
        $this -> db -> from('buspersonnel');
        $this -> db -> where('busPersonnelType',
'Driver');
        $this -> db -> where('busCompanyID',
$bcID);
        $this -> db ->
order_by('busPersonnelLName', 'asc');

```

```

        $this -> db ->
order_by('busPersonnelFName', 'asc');
        $this -> db ->
order_by('busPersonnelMName', 'asc');

        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
    }

    function getConductors($bcID) {
        $this -> db -> select('*');
        $this -> db -> from('buspersonnel');
        $this -> db -> where('busPersonnelType',
'Conductor');
        $this -> db -> where('busCompanyID',
$bcID);
        $this -> db ->
order_by('busPersonnelLName', 'asc');
        $this -> db ->
order_by('busPersonnelFName', 'asc');
        $this -> db ->
order_by('busPersonnelMName', 'asc');

        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
    }

    function add($lName, $fName, $mName, $ssn,
$bDay, $address, $bCompany, $pType) {
        $data = array(
            'busPersonnelFName' => $fName,
            'busPersonnelMName' => $mName,
            'busPersonnelLName' => $lName,
            'busPersonnelSSN'   => $ssn,
            'busPersonnelBDay'  => $bDay,
            'busPersonnelAddress' => $address,
            'busPersonnelType'  => $pType,
            'busCompanyID'      => $bCompany
        );

        $this -> db -> insert('buspersonnel',
$data);
        return $this -> db -> insert_id();
    }

    function edit($bpID, $lName, $fName,
$mName, $ssn, $bDay, $address, $bCompany,
$pType) {
        $data = array(
            'busPersonnelFName' => $fName,
            'busPersonnelMName' => $mName,
            'busPersonnelLName' => $lName,
            'busPersonnelSSN'   => $ssn,
            'busPersonnelBDay'  => $bDay,
            'busPersonnelAddress' => $address,
            'busPersonnelType'  => $pType,
            'busCompanyID'      => $bCompany
        );

        $this -> db -> where('busPersonnelID',
$bpID);

```



```

        $q = $this -> db ->
update('buspersonnel', $data);
        return $q;
    }

    function addPhoto($id) {
        $this -> db -> where ('busPersonnelID',
$id);
        $this -> db -> update('buspersonnel',
array('busPersonnelProfilePath' =>
"/uploads/profile/" . $id . ".jpg"));
    }

    function get($id) {
        $this -> db -> select('*');
        $this -> db -> from('buspersonnel');
        $this -> db -> join('busdriver',
'buspersonnel.busPersonnelID =
busdriver.busPersonnelID', 'left');
        $this -> db ->
join('buscompany', 'buspersonnel.busCompanyID =
buscompany.busCompanyID');
        $this -> db ->
where('buspersonnel.busPersonnelID', $id);
        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
    }

    function del($id) {
        $this -> db -> where('busPersonnelID',
$id);
        $query = $this -> db ->
delete(array('buspersonnel', 'busdriver'));
        return $query;
    }
}

?>
BusRoute.php
<?php

class BusRoute extends CI_Model {

    function viewAll($id = null) {
        if($id === null) {
            $this -> db -> select('*');
            $this -> db -> from('route');
            $this -> db -> order_by('routeFrom',
'asc');
            $this -> db -> order_by('routeTo',
'asc');
            $this -> db ->
order_by('routeDetails', 'asc');
            $query = $this -> db -> get();

            return $query -> result();
        }
        else {
            $this -> db -> select('*');
            $this -> db -> from('terminalroute');
            $this -> db -> join('route',
'terminalroute.routeID = route.routeID');
            $this -> db ->
where('endpointTerminalA', $id);
            $query = $this -> db -> get();

```

```

        return $query -> result();
    }
}

function getRoute($rID) {
    $this -> db -> select('*');
    $this -> db -> from('route');
    $this -> db -> where('routeID', $rID);
    $q = $this -> db -> get();

    $data = array();
    $data["routeInfo"] = $q -> result();

    $this -> db -> select('*');
    $this -> db -> from('routepoint');
    $this -> db ->
join('stoppoint', 'stoppoint.stopPointID =
routepoint.stopPointID');
    $this -> db -> where('routeID', $rID);
    $this -> db ->
order_by('orderNo', 'asc');
    $q2 = $this -> db -> get();

    $data["routePoints"] = $q2 -> result();

    return $data;
}

function addOutgoingRoute($rID, $epA, $epB)
{
    $data = array(
        "routeID" => $rID,
        "endpointTerminalA" => $epA,
        "endpointTerminalB" => $epB
    );
    $q = $this -> db ->
insert('terminalroute', $data);
    return $q;
}

function getPoints() {
    $this -> db -> select('*');
    $this -> db -> from('stoppoint');
    $query = $this -> db -> get();

    return $query -> result();
}

function getMapInfo($rID) {
    $data = array();
    $this -> db -> select('*');
    $this -> db -> from('route');
    $this -> db -> where('routeID', $rID);
    $query = $this -> db -> get();
    $d = $query -> result();
    $data['mainInfo']['rTo'] = $d[0] ->
routeTo;
    $data['mainInfo']['rFrom'] = $d[0]
-> routeFrom;
    $data['mainInfo']['rDetails'] = $d[0]
-> routeDetails;

    $this -> db -> select('*');
    $this -> db -> from('routepoint');
    $this -> db -> join('stoppoint',
'stoppoint.stopPointID =
routepoint.stopPointID');

```

```

        $this -> db -> where('routeID', $rID);
        $this -> db -> order_by('orderNo',
'asc');
        $query = $this -> db -> get();
        $dp = $query -> result();

        $data['routePoints'] = array();
        foreach($dp as $p) {
            array_push($data['routePoints'],
array('lat' => $p -> stopPointLat, 'lng' => $p
-> stopPointLong));
        }

        return $data;
    }

    function delete($rID) {
        $q = $this -> db -> delete('routepoint',
array('routeID' => $rID));
        if($q) {
            $q = $this -> db -> delete('route',
array('routeID' => $rID));
        }
        return $q;
    }

    function deleteT($rID) {
        $q = $this -> db ->
delete('terminalroute', array('terminalRouteID'
=> $rID));
        return $q;
    }

    function addRoute($rTo, $rFrom, $rDetails,
$pointIDArray) {
        $data = array(
            "routeFrom" => $rFrom,
            "routeTo" => $rTo,
            "routeDetails" => $rDetails
        );
        $this -> db -> insert('route', $data);
        $routeID = $this -> db -> insert_id();
        $pointsArray = array();
        $i = 0;
        foreach($pointIDArray as $p) {
            array_push($pointsArray,array(
                "routeID" => $routeID,
                "stopPointID"=> $p,
                "orderNo" => $i
            ));
            $i++;
        }
        $query = $this -> db ->
insert_batch('routepoint', $pointsArray);
        return $query;
    }

    function editRoute($rID, $rTo, $rFrom,
$rDetails, $pointIDArray) {
        $data = array(
            "routeFrom" => $rFrom,
            "routeTo" => $rTo,
            "routeDetails" => $rDetails
        );
        $this -> db -> where('routeID', $rID);
        $this -> db -> update('route', $data);

        $this -> db -> where('routeID', $rID);
        $this -> db -> delete('routepoint');

```

```

        $pointsArray = array();
        $i = 0;
        foreach($pointIDArray as $p) {
            array_push($pointsArray,array(
                "routeID" => $rID,
                "stopPointID"=> $p,
                "orderNo" => $i
            ));
            $i++;
        }
        $query = $this -> db ->
insert_batch('routepoint', $pointsArray);
        return $query;
    }

    ?>
BusTerminal.php
<?php

class BusTerminal extends CI_Model {

    function viewAll() {
        $this -> db -> select('*');
        $this -> db -> from('busterminal');
        $this -> db -> join('stoppoint',
'stoppoint.stopPointID
=
busterminal.stopPointID');
        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
        else
            return FALSE;
    }

    function getAvailableTerminals($bcID) {
        $this -> db -> select('*');
        $this -> db -> from('busterminal');
        $this -> db -> join('stoppoint',
'stoppoint.stopPointID
=
busterminal.stopPointID');
        $this -> db ->
where('busterminal.busCompanyID', $bcID);
        $this -> db ->
or_where('busterminal.busTerminalType',
'Shared');
        $this -> db ->
order_by('stoppoint.stopPointName', 'asc');

        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
        else
            return FALSE;
    }

    function getTerminal($btID) {
        $this -> db -> select('*');
        $this -> db -> from('busterminal');
        $this -> db -> join('stoppoint',
'stoppoint.stopPointID
=
busterminal.stopPointID');

```

```

        $this -> db -> where('busterminal.stopPointID', $btID);

        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
        else
            return FALSE;
    }

    function add($btID, $btType, $bCompany) {
        if($bCompany == "Bus Company")
            $bCompany = null;
        $data = array(
            'stopPointID' => $btID,
            'busTerminalType' => $btType,
            'busCompanyID' => $bCompany
        );
        $query = $this -> db -> insert('busterminal', $data);
        return $query;
    }

    function edit($btID, $btType, $bCompany) {
        if($btType == "Shared")
            $bCompany = null;
        $data = array(
            'busTerminalType' => $btType,
            'busCompanyID' => $bCompany
        );
        $this -> db -> where('stopPointID', $btID);
        $query = $this -> db -> update('busterminal', $data);
        return $query;
    }

    function delete($id) {
        $this -> db -> where('stopPointID', $id);
        $query = $this -> db -> delete('busterminal');
        return $query;
    }
}

```

?>
BusTerminalAdmin.php
<?php

```

class BusTerminalAdmin extends CI_Model {

    function add($uID, $bCompany, $bTerminal) {
        $data = array(
            'userID' => $uID,
            'busTerminalID' => $bTerminal,
            'busCompanyID' => $bCompany
        );
        $query = $this -> db -> insert('busterminaladmin', $data);
        return $query;
    }

}

```

?>
Report.php

```

<?php

class Report extends CI_Model {
    function viewAllReports() {
        $this -> db -> select('*');
        $this -> db -> from('report');
        $this -> db -> order_by('reportYear', 'desc');
        $this -> db -> order_by('reportMonth', 'desc');
        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
        else return null;
    }

    function viewAllComplaints() {
        $this -> db -> select('*');
        $this -> db -> from('complaint');
        $this -> db -> order_by('complaintDate', 'desc');
        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
        else return null;
    }

    function addComplaint($cSender, $cIssue, $cDetails) {
        date_default_timezone_set('Asia/Manila');
        $data = array(
            "complaintSender" => $cSender,
            "complaintIssue" => $cIssue,
            "complaintDetails" => $cDetails,
            "complaintDate" => date("Y-m-d h:i:s")
        );
        $query = $this -> db -> insert('complaint', $data);
        return $query;
    }

    function addReport($month, $year) {
        $data = array(
            "reportMonth" => $month,
            "reportYear" => $year
        );
        $query = $this -> db -> insert('report', $data);
        $reportID = $this -> db -> insert_id();

        $yearA = $year;
        $yearB = $year;
        $monthA = $month - 1;
        $monthB = $month + 1;
        if($monthA == 0) {
            $monthA = 12;
            $yearA--;
        }
        if($monthB == 13) {
            $monthB = 1;
            $yearB++;
        }
    }
}

```

```

$this -> db -> select('*');
$this -> db -> from('route');
$query2 = $this -> db -> get();
$routeIDs = $query2 -> result();

$dateA = $yearA . "-" . $monthA . "-31
00:00:00";
$dateB = $yearB . "-" . $monthB . "-01
00:00:00";
$numDays = 0;

if($month == 1 || $month == 3 || $month
== 5 || $month == 7 || $month == 8 || $month ==
10 || $month == 12)
    $numDays = 31;
else
    $numDays = 30;
foreach($routeIDs as $r) {
    $this -> db -> select('*');
    $this -> db -> from('trip');
    $this -> db -> join('terminalroute',
'terminalroute.terminalRouteID
=
trip.terminalRouteID');
    $this -> db -> where('routeID', $r ->
routeID);
    $w = "(timeDeparted BETWEEN
'".$dateA."' AND '".$dateB."' OR timeArrived
BETWEEN '".$dateA."' AND '".$dateB."')";
    $this -> db -> where($w);
    $q = $this -> db -> get();
    $trips = $q -> result();

    $totalTrips = $q -> num_rows();
    $totalTime = 0;
    $aTime = date('H:i:s',
strtotime("00:00:00"));
    if($totalTrips != 0) {
        foreach($trips as $t) {
            $tD = strtotime($t ->
timeDeparted);
            $tA = strtotime($t ->
timeArrived);
            $totalTime += ($tA - $tD);
        }
        $averageTime =
$totalTime/$totalTrips;
        $hrs = round($averageTime/3600);
        $min = round(($averageTime -
($hrs * 3600))/60);
        $sec = round(($averageTime -
($hrs * 3600) - ($min * 60)));
        if($sec < 0) {
            $sec = 60 + $sec;
            $min--;
        }
        if($min < 0) {
            $min = 60 + $min;
            $hrs--;
        }
        $aString =
$hrs." : ".$min." : ".$sec;
        $aTime = date('H:i:s',
strtotime($aString));
    }

    $data = array(
        'reportID' => $reportID,
        'routeID' => $r -> routeID,
        'averageTravelTime' => $aTime,
        'totalTripCount' => $totalTrips,
        'averageTripCount' =>
($totalTrips/$numDays)
    );

    $iQuery = $this -> db ->
insert('reportline', $data);
}
return $query;
}

function getComplaint($complaintID) {
    $this -> db -> select('*');
    $this -> db -> from('complaint');
    $this -> db -> where('complaintID',
$complaintID);
    $query = $this -> db -> get();

    if($query -> num_rows() > 0) {
        return $query -> result();
    }
    else return null;
}

function getReport($reportID) {
    $this -> db -> select('*');
    $this -> db -> from('report');
    $this -> db -> where('reportID',
$reportID);
    $query = $this -> db -> get();
    if($query -> num_rows() > 0) {
        $data['rDate'] = $query ->
result()[0];

        $this -> db -> select('*');
        $this -> db -> from('reportline');
        $this -> db -> join('route',
'reportline.routeID = route.routeID');
        $this -> db -> where('reportID',
$reportID);
        $this -> db -> order_by('routeFrom',
'asc');
        $this -> db -> order_by('routeTo',
'asc');
        $query2 = $this -> db -> get();

        $data['reportLines'] = $query2 ->
result();
        return $data;
    }
    else return null;
}
?>
StopPoint.php
<?php

class StopPoint extends CI_Model {
    function add($btName, $btLat, $btLong) {
        $data = array(
            'stopPointName' => $btName,
            'stopPointLat' => $btLat,
            'stopPointLong' => $btLong,
            'stopPointType' => 'Terminal'
        );
        $query = $this -> db ->
insert('stoppoint', $data);
        return $query;
    }
}

```

```

    }

    function edit($btID, $btName, $btLat,
$btLong) {
        $data = array(
            'stopPointName' => $btName,
            'stopPointLat' => $btLat,
            'stopPointLong' => $btLong,
            'stopPointType' => 'Terminal'
        );
        $this -> db -> where('stopPointID',
$btID);
        $query = $this -> db ->
update('stoppoint', $data);
        return $query;
    }

    function getIdA($btName) {
        $this -> db -> select('*');
        $this -> db -> from('stoppoint');
        $this -> db -> where('stopPointName',
$btName);

        $query = $this -> db -> get();

        if($query -> num_rows() > 0) {
            return $query -> result();
        }
        else
            return -1;
    }

    function getIdB($lat, $lng) {
        $this -> db -> select('stopPointID');
        $this -> db -> from('stoppoint');
        $this -> db -> where('stopPointLat',
$lat);
        $this -> db -> where('stopPointLong',
$lng);

        $query = $this -> db -> get();
        if($query -> num_rows() > 0) {
            foreach($query -> result() as $q) {
                return $q -> stopPointID;
            }
        }
        else
            return -1;
    }

    function addBatch($points) {
        $query = $this -> db ->
insert_batch('stoppoint', $points);
        return $query;
    }

    function delete($id) {
        $this -> db -> where('stopPointID',
$id);
        $query = $this -> db ->
delete('stoppoint');
        return $query;
    }
}

?>
Trip.php
<?php

```

```

class Trip extends CI_Model {

    function getOutgoingTrips($bTerminalID) {
        $busDB = $this -> load ->
database('busDB', TRUE);
        $data = [];

        $this -> db -> select('*');
        $this -> db -> from('trip');
        $this -> db ->
join('terminalRoute', 'trip.terminalRouteID =
terminalRoute.terminalRouteID');
        $this -> db ->
join('route', 'terminalRoute.routeID =
route.routeID');
        $this -> db -> join('stoppoint',
'terminalRoute.endpointTerminalB =
stoppoint.stopPointID');
        $this -> db ->
where('terminalRoute.endpointTerminalA',
$bTerminalID);
        $this -> db -> where('timeArrived',
null);
        $this -> db -> order_by('stopPointName',
'asc');
        $this -> db -> order_by('busPlateNo',
'asc');
        $this -> db -> order_by('routeTo',
'asc');
        $this -> db -> order_by('routeDetails',
'asc');
        $query = $this -> db -> get();

        $bpNo = [];
        if($query -> num_rows() > 0) {
            foreach(($query -> result()) as $row)
            {
                array_push($bpNo, $row ->
busPlateNo);
            }
            $busDB -> select('*');
            $busDB -> from('bus');
            $busDB -> where_in('busPlateNo',
$bpNo);
            $query2 = $busDB -> get();
            $data["locationData"] = $query2 ->
result();
        }
        else {
            $data["locationData"] = [];
        }

        $data["busData"] = $query -> result();

        return $data;
    }

    function getIncomingTrips($bTerminalID) {
        $busDB = $this -> load ->
database('busDB', TRUE);
        $data = [];

        $this -> db -> select('*');
        $this -> db -> from('trip');
        $this -> db ->
join('terminalRoute', 'trip.terminalRouteID =
terminalRoute.terminalRouteID');

```

```

        $this -> db ->
join('route','terminalRoute.routeID =
route.routeID');
        $this -> db -> join('stoppoint',
'terminalRoute.endpointTerminalA
stoppoint.stopPointID');
        $this -> db ->
where('terminalRoute.endpointTerminalB',
$bTerminalID);
        $this -> db -> where('timeArrived',
null);
        $this -> db -> where('timeDeparted is
NOT NULL', null, false);
        $this -> db -> order_by('stopPointName',
'asc');
        $this -> db -> order_by('busPlateNo',
'asc');
        $this -> db -> order_by('routeTo',
'asc');
        $this -> db -> order_by('routeDetails',
'asc');
        $query = $this -> db -> get();

        $bpNo = [];
        if($query -> num_rows() > 0) {
            foreach(($query -> result()) as $row)
            {
                array_push($bpNo, $row ->
busPlateNo);
            }
            $busDB -> select('*');
            $busDB -> from('bus');
            $busDB -> where_in('busPlateNo',
$bbpNo);
            $query2 = $busDB -> get();
            $data["locationData"] = $query2 ->
result();
        }
        else {
            $data["locationData"] = [];
        }

        $data["busData"] = $query -> result();

        return $data;
    }

    function getRouteID($terminalRouteID) {
        $this -> db -> select('*');
        $this -> db -> from('terminalRoute');
        $this -> db -> where('terminalRouteID',
$terminalRouteID);
        $query = $this -> db -> get();

        return $query -> result();
    }

    function updateSeat($tID, $num) {
        $data = array (
            "numAvailableSeats" => $num
        );
        $this -> db -> where('tripID', $tID);
        $q = $this -> db -> update('trip',
$data);
        return $q;
    }

    function dispatch($pNo, $rID, $dID, $cID,
$numSeats) {
        $data = array(
            "busPlateNo" => $pNo,
            "terminalRouteID" => $rID,
            "driverID" => $dID,
            "conductorID" => $cID,
            "numAvailableSeats" => $numSeats
        );
        $query = $this -> db -> insert('trip',
$data);
        return $query;
    }

    function departTrip($tripID) {
        date_default_timezone_set('Asia/Manila');
        $data = array(
            "timeDeparted" => date("Y-m-d H:i:s")
        );
        $this -> db -> where("tripID", $tripID);
        $query = $this -> db -> update("trip",
$data);
        return $query;
    }

    function arriveTrip($tripID) {
        date_default_timezone_set('Asia/Manila');
        $data = array(
            "timeArrived" => date("Y-m-d H:i:s")
        );
        $this -> db -> where("tripID", $tripID);
        $query = $this -> db -> update("trip",
$data);
        return $query;
    }

    function getHistory($bIDs = null) {
        $this -> db -> select('tripID,
timeDeparted, timeArrived, trip.busPlateNo,
routeTo, routeFrom, d.busPersonnelFName as df,
d.busPersonnelMName as dm, d.busPersonnelLName
as dl, c.busPersonnelFName as cf,
c.busPersonnelMName as cm, c.busPersonnelLName
as cl');
        $this -> db -> from('trip');
        $this -> db ->
join('terminalRoute','trip.terminalRouteID =
terminalRoute.terminalRouteID');
        $this -> db ->
join('route','terminalRoute.routeID =
route.routeID');
        $this -> db -> join('stoppoint',
'terminalRoute.endpointTerminalA
stoppoint.stopPointID');
        $this -> db -> join('buspersonnel AS c',
'c.busPersonnelID = trip.conductorID');
        $this -> db -> join('buspersonnel AS d',
'd.busPersonnelID = trip.driverID');
        $this -> db -> join('bus',
'trip.busPlateNo = bus.busPlateNo');
        if($bIDs === null) {
            //sAdmin
        }
        else {
            //btAdmin
            $where =
"(terminalRoute.endpointTerminalA
='".$bIDs[0]."' OR

```



```

$query = $this -> db -> get();

if($query -> num_rows() > 0) {
    return $query -> result();
}

function existing($uName) {
    $this -> db -> where('uName', $uName);
    $this -> db -> from('user');
    if($this -> db -> count_all_results() ==
0)
        return FALSE;
    else
        return TRUE;
}

function add($uName, $uType) {
    $data = array(
        'uName' => $uName,
        'pWord' => md5('default'),
        'uType' => $uType
    );
    $query = $this -> db -> insert('user',
$data);
    return $query;
}

function getID($uName) {
    $this -> db -> select('*');
    $this -> db -> from('user');
    $this -> db -> where('uName', $uName);

    $query = $this -> db -> get();

    if($query -> num_rows() > 0) {
        return $query -> result();
    }
    else
        return -1;
}

function view($id) {
    $this -> db -> select('*');
    $this -> db -> from('user');
    $this -> db -> join('busterminaladmin',
'user.userID = busterminaladmin.userID',
'left');
    $this -> db -> join('stoppoint',
'busterminaladmin.busterminalID =
stoppoint.stopPointID', 'left');
    $this -> db -> where('user.userID',
$id);
    $this -> db -> limit(1);

    $query = $this -> db -> get();

    if($query -> num_rows() == 1) {
        return $query -> result();
    }
    else {
        return FALSE;
    }
}

function reset($id) {
    $this -> db -> where('userID', $id);
    $query = $this -> db -> update('user',
array('pWord' => md5('default')));

```

```

        return $query;
    }

    function delete($id) {
        $this -> db -> where('userID', $id);
        $query = $this -> db ->
delete('busTerminalAdmin');

        $this -> db -> where('userID', $id);
        $query = $this -> db -> delete('user');

        return $query;
    }
}

?>
update_history.js
var xhttp = [];
var xhttp2 = [];

self.addEventListener('message',      function
(event) {

    function handler() {
        if(this.readyState == 4) {
            if(this.status == 200) {
                var history =
JSON.parse(this.responseText)
                postMessage(history);
            }
            xhttp.splice(xhttp.indexOf(this), 1);
        }
    }

    function sendRequest() {
        var x = new XMLHttpRequest();
        x.open("POST",    "../trips/getHistory",
true);
        x.setRequestHeader("ajaxOnly", true);
        x.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
        x.onreadystatechange = handler;
        x.send();
        xhttp.push(x);
    }

    var timer = setInterval(sendRequest, 2000);
}, false);
update_map.js
var xhttp = [];
var date = null;

self.addEventListener('message',      function
(event) {
    function handler() {
        if(this.readyState == 4) {
            if(this.status == 200) {
                var locArray =
JSON.parse(this.responseText);
                if(date == null || date <
locArray[0]) {
                    date = locArray[0];
                    postMessage(locArray);
                }
            }
        }
        xhttp.splice(xhttp.indexOf(this), 1);
    }
}

```



```

    }
}

function sendRequest() {
    var x = new XMLHttpRequest();
    x.open("POST",    "../buses/getLocation",
true);
    x.setRequestHeader("ajaxOnly", true);
    x.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
    x.onreadystatechange = handler;
    x.send();
    xhttp.push(x);
}

var timer = setInterval(sendRequest, 2000);
}, false);
update_terminal.js
var xhttp = [];
var xhttp2 = [];
var date = null;
var bTerminalID;
var times = 0;

self.addEventListener('message',    function
(event) {

    function handler() {
        if(this.readyState == 4) {
            if(this.status == 200) {

                var    tripData    =
JSON.parse(this.responseText);
                var bpNos = {};
                var out = [];
                var inc = [];

                for(var    i    =    0;    i    <
tripData["outgoing"]["busData"].length; i++) {

                    out.push(tripData["outgoing"]["busData"][i]
.busPlateNo);

```

```

                }
                for(var    i    =    0;    i    <
tripData["incoming"]["busData"].length; i++) {

                    inc.push(tripData["incoming"]["busData"][i]
.busPlateNo);
                }
                bpNos.outgoing = out;
                bpNos.incoming = inc;

                var Tdata = {};

                Tdata.time    =    new
Date().getTime();
                Tdata.bTerminalID    =    bTerminalID;
                Tdata.tripData    =    tripData;
                Tdata.bpData    =    bpNos;

                postMessage(Tdata);
            }
            xhttp.splice(xhttp.indexOf(this), 1);
        }
    }

    function sendRequest() {
        bTerminalID = event.data;
        var x = new XMLHttpRequest();
        var param = "bTerminalID="+bTerminalID;
        x.open("POST",    "../trips/getTrips",
true);
        x.setRequestHeader("ajaxOnly", true);
        x.setRequestHeader("Content-type",
"application/x-www-form-urlencoded");
        x.onreadystatechange = handler;
        x.send(param);
        xhttp.push(x);
    }

    var timer = setInterval(sendRequest, 2000);
}, false);

```