

UNIVERSITY OF THE PHILIPPINES MANILA
COLLEGE OF ARTS AND SCIENCES
DEPARTMENT OF PHYSICAL SCIENCES AND MATHEMATICS

INVENTORY SYSTEM WITH ANALYTICS FOR
MANAGING MULTIPLE RETAIL KIOSKS

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

Submitted by:

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May 2016

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ACCEPTANCE SHEET

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Abstract

LA Global Product Trends Inc. is a company selling cosmetic products. They currently employ a paper-based system of tallying sales which is consolidated by a Microsoft Excel File. This current system causes a lot of problems such as misplaced tally sheets, delayed stock related decisions, and outdated inventory reports. This project aims to automate LA Global Product Trends Inc.'s inventory management system to hasten report generation, produce sales predictions, keep data up-to-date, and improve stock management for the multiple kiosks owned by the company and the warehouse which distributes the stocks.

Keywords: inventory system, analytics, time series analysis

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I. Introduction

A. Background of the Study

LA Global Product Trends, Inc. is an expanding nationwide retail distributor of cosmetic products in various shopping malls and supermarkets around the Philippines. As of now, the company owns 86 kiosks and stalls which distribute two brands of cosmetics. The company imports cosmetics from the United States of America and Europe to distribute to different areas in the Philippines through the kiosks. These kiosks are replenished periodically by a single warehouse, with multiple personnel tasked with generating reports and delivery and product pull-outs, which distributes the cosmetics through courier shipment or through physical delivery by the warehouse personnel [1].

Some of the goods sold by LA Global Product Trends consist of 2 brands of cosmetics: Beauty Treats and LA Girl. These brands include an assortment of naturally-based cosmetic products such as lipsticks, mascaras, eyeliners, and nail polish which are conditionally specific to the customers needs. As of the start of the year, there have been 294 items in LA Global Product Trends catalogue.

An inventory management system is important in tracking orders, sales, and deliveries in a retail business like LA Global Product Trends. Its main objective is to supply the demands of the customer at minimum cost without overstocking [2]. Inventory Systems also generate reports which help business owners by providing basis on important decisions such as stock distribution and warehouse stock replenishment.

The company employs a paper-based inventory system for each of the 86 kiosks. The inventory sheets are filled out by the sales representative stationed at the stalls, checked by the sales supervisors, and then submitted weekly or at the end of the month. The inventory sheets contain the list of product names, number of units sold on a daily basis, number of units delivered on a particular day (delivery may occur multiple times in a month), total units sold within the week, returned

or damaged units, and the units left in the kiosks [1].

In order to generate reports and calculate the total sales and losses from all of the 86 kiosks, the company hires an encoder to type in the details from the inventory sheets into a Microsoft Excel file.

B. Statement of the Problem

Most multi-warehouse inventory systems, such as TradeGecko, are too expensive with plans starting from \$39 a month for the software license. Even with such prices, most of these applications only support only a limited amount of users that can connect to the system. Most of the features provided by such inventory systems are not needed by the company. This forces the company to pay more than what it needs. Furthermore, multi-warehouse inventory systems such as TradeGecko are designed to keep track of inventory levels only. They are not designed to make reports that take into account the factors such as seasonal demand and slow moving products in providing evidences to its users for making inventory related decisions. These multi-warehouse inventory systems are controlled only by a central location and cannot take in pullout suggestions or delivery requests from the individual warehouses or kiosks. Creating an inventory system specifically for LA Global Product Trends will result in a system that follows the company's business rules that may not be present in TradeGecko and other inventory systems.

Moreover, the paper-based inventory system employed by LA Global Product Trends causes a chain of problems starting with data analysis delays, which may result in a lot of losses for the company. Data analysis cannot be performed immediately because the paper based inventory reports from each of the 86 branches of the company comes in during the end of the month. In some cases, the kiosk personnel submit their inventory report late. Some reports may also be misplaced. Because of these delays, stock distribution decisions must be postponed until the arrival of the inventory reports. Stock distribution decisions may be flawed or delayed, causing some kiosks to become overstocked or under stocked because of

the long delays [1].

During report generation and automation, long lag time is also experienced by the company. Data extraction requires the warehouse personnel to inspect the inventory reports one by one before encoding the data into an Excel file before making reports and conclusions about the inventories of the different kiosks. In some cases, the inventory reports are stored for a long period of time before the warehouse personnel becomes available for data extraction. This situation makes the inventory reports prone to being misplaced [1].

Stock replenishment for both the warehouse and the kiosk may be delayed for a few days since the warehouse personnel decides on which products should be imported, stored in the warehouse, and then distributed to the kiosks. These factors, e.g. the number of stocks left in the warehouse or the salability of the product in that specific kiosk, are taken from the Excel file containing the consolidated inventory reports. Therefore, until the reports are completed, the company cannot make decisions on which products should be imported and distributed to the kiosks.

C. Objectives of the Study

General Objective:

The objective of the project is to develop an online inventory system that allows the management of LA Global Product Trends, Inc. to monitor the inventory levels of the individual kiosks. This inventory system should store the list of products, sales per kiosk, units unsold per kiosk; units stored in the warehouse, and delivered units. The system should also generate reports that will aid the company in making stock replenishment decisions.

Specific Objectives:

The inventory system should

1. Allow users to:

- (a) Sign up for an account.
- (b) Log in to their respective accounts.

2. Allow the Sales Personnel to:

- (a) Receive delivery and pullout confirmation notifications.
- (b) Receive low stock notifications.
- (c) Update sales transactions.
- (d) Record condemned items (such as testers, damaged items, and missing items).

3. Allow the CEO to:

- (a) Create and update kiosks and kiosk regions.
- (b) Create and update products.
- (c) View reports from all kiosks, products, and regions.
- (d) View total sales progress reports.
- (e) View sales analytics for all products and kiosks.
- (f) Receive and decide on pullout request notifications and delivery notifications.
- (g) Trace delivery transactions and condemned items (such as missing items, damaged items, and testers).
- (h) Receive low stock notifications from the warehouse
- (i) Update user profile.

4. Allow the Sales Supervisors to:

- (a) Update kiosk information such as kiosk name and kiosk location.
- (b) Set product thresholds.
- (c) View reports from the kiosk assigned to him/her.

- (d) Receive low stock notifications.
- (e) Make stock replenishment request notifications.
- (f) Receive delivery and pullout confirmation notifications.
- (g) Make pullout request.
- (h) Update user profile.

5. Allow the Warehouse Personnel to:

- (a) Set warehouse thresholds.
- (b) Create and update products.
- (c) Update warehouse stocks.
- (d) Make delivery notifications.
- (e) Record condemned items in the warehouse.
- (f) Receive stock replenishment requests, delivery and pullout confirmation notifications.
- (g) Receive low stock notifications from the warehouse.
- (h) Update user profile.

6. Allow the System Administrator to:

- (a) Approve users
- (b) Receive user account activation notifications.
- (c) Deactivate users.
- (d) Update user profile.

D. Significance of the Project

Creating an inventory system for LA Global Product Trends, Inc. will enable the company to manage their inventory level daily to make sure that the kiosks can satisfy the customers request without overstocking or under stocking [2].

The reports generated by the inventory system can prove to be advantageous since it can provide the company with enough evidence to make efficient decisions, function according to customers demands and minimize errors associated with the manual analysis performed using the paper-based inventories [3].

Furthermore, the inventory system allows the sales supervisors to update the inventory reports daily. This speeds up the decision making process since the company does not have to wait until the end of the week or the month to see which products are fast moving and which products are not.

Based on previous literature, one of the benefits provided by an inventory system is automatic accumulation of daily sales [4]. Automatic sales data accumulation can also speed up the data analysis since the system consolidates the submitted inventory reports automatically. There will no longer be a need for manual inspection of each inventory report and encoding into an Excel file. As a consequence, report generation will not take as long as it previously did.

Swift decision making aided by enough evidences from the generated reports and supervisor requests will allow the company to replenish the stocks in the warehouse and in the kiosks much faster than before. The company can also determine which products do not sell well and transfer those products to other kiosks or import less of that product to make room for new products or more of the fast selling products.

Furthermore, this system will lessen the companys expenses as the system will not require the company to buy a license. Most importantly, the system will allow the companys personnel to collaborate well by making suggestions and notifications based on the seasonal demands, delivery delays and swift product movement to the decision making body of the company at real time. Since the personnel can personally experience the varying demands in every kiosk, they can make viable suggestions that can help the company make inventory related decisions.

Automating the inventory system and the business process may create a chain

of improvement for the companys decision making, selling and distribution strategies.

E. Scope and Limitations

1. The proposed system will manage the inventory for the warehouse and for every kiosk.
2. The proposed system will not be responsible for ordering the cosmetic products from the manufacturers.
3. The proposed system will not be able to verify if the inputs are accurate unless manual checking and comparing with the inventory report sheets are performed.
4. The kiosk personnel are responsible for submitting inventory reports for the kiosks assigned to him/her, ideally, daily to update the inventory system as soon as possible.
5. The CEO is still responsible for making the decisions on the quantity of products to be delivered or pulled out.
6. Reports can be viewed on the site and downloaded. Reports in table form can be exported in PDF format, while reports in chart form can be downloaded in PNG or SVG.
7. Thresholds may depend on the sales dynamic in every kiosk. This is set by the supervisor.
8. The other stakeholders (such as suppliers) are not included in the system.

II. Review of Related Literature

For a retail business to be successful, it must provide a variety of products that will cater to the customers needs without overstocking and under stocking [2]. That is why an efficient inventory management system is beneficial for a company because of its objective, which is to reduce investment in inventory through efficient production and materials management [5].

In order to facilitate a successful inventory management system, employing an efficient information system may prove to be advantageous. An effective inventory information system allows business owners to gather, store, process, transmit and present information. Moreover, the system may aid the enterprise by facilitating effective communication, provide corrections in planning, and develop competitive sales strategies [6]. Through the comparison of inventory variables, the system can compute for optimal amount of stocks to be kept and sold by the establishment to satisfy customer demands [7].

An advantage of computerizing the inventory management system is that large amounts of data can be easily managed and analyzed to produce reports. Furthermore, inventory systems can organize product storage since the system can keep data about the location of the products [4].

Wanjohi, et al. performed a research on the effect of electronic inventory system on customer service delivery in Kenyan supermarkets. It was concluded that electronic inventory systems, such as computerized ones, affected customer service delivery to a large extent, therefore improving customer satisfaction. Some of the service improvements experienced by the customers were faster processing of orders, improved monitoring and management of stocks, accurate and automatic ordering, broader variety of goods, faster introduction of products, and shorter lines at the point-of-sales. The development brought about by the introduction of electronic inventory systems allowed the supermarkets to be more responsive to the demands of the customers and delivery of service that is precise and reliable [8].

Samuel, et al. performed a similar research on the relationship of the performance of supermarkets in Western Kenya and inventory management automation. The authors found out that automation of the inventory management system directly affected the firms performance. The performances of the supermarkets improved in areas such as customer service delivery and lower operational costs [9].

One example of an inventory system is cloud-based TradeGecko which was created by TradeGecko Pte. Ltd. It has multiple features such as inventory control, sales report generation, order management and the capability of maintaining multiple warehouse inventories. However, it is priced starting from \$39 to \$349. It is expensive and can only accommodate a limited amount of users with 10 being the limit. Furthermore, only one location can make decisions for the different warehouses. It cannot accommodate pullout requests and cannot make inventory related decisions based on seasonal demands and slow moving products [10].

Fishbowl Warehouse, on the other hand, is a similar application to TradeGecko. It can accommodate multiple warehouse locations and generate reports about which stocks are seasonal (a feature lacked by TradeGecko) [11]. However, this will require the user to inspect the demands for every location to make conclusions as to what products are seasonal. In the case of LA Global Product Trends, it will be difficult to do so, since the company owns almost a hundred kiosks. This will cost a lot of time and effort to do. Furthermore, their pricing is based on the number of users with their plans starting at \$4,395.

Another example of such is Spartan Stores, Inc. in Grand Rapids, Michigan. In order to inter-link their supply chains, they created a computer system called Computer Assisted Ordering/ Perpetual Inventory System (CAO/PI) in 2006. Some of the functions performed by CAO/PI are accumulating daily sales, set minimum presentation stocks, shelf capacity, location, and in store inventory, update stocks, and generate and review orders. Substantial benefits were received by the company since CAO/PI made ordering and organizing stocks efficient by

diminishing the variety on some products, such as perishables, and by ordering stocks that are needed [7].

Guan Lee Sdn Bhd, a company which sold daily necessities, bicycles, and mats, converted from a manual system to an automated system, as well. Prior to automation, the company experienced difficulty in predicting the monthly demand since the demand was based on season, marketing and management. The company converted to an inventory system with a forecasting system to predict the monthly demands using an exponential smoothing technique. Furthermore, the automated system also had features that alert the owners when there were inadequate stocks, register new products for the inventory, search for products and their details, and generate reports. However, the creators of the system found limitations such as difficulty in identifying the products based on codes and lack of automated features.[2]

In Brazil, an unnamed family firm that sells building materials uses MGE Jiva version 3.16.0.21 which has numerous features that help the company control their inventory. One of the features included the registration of products into the system. The registration of the product included price and tax calculation for the product. Moreover, the system aids the product purchase decision making by generating reports that are eventually analyzed by the owners. This feature allows the company to prevent overstocking and under stocking brought about by the unpredictable situations. However, some of the disadvantages presented by the author included additional costs for purchasing the system, energy and Internet dependence, inaccuracy brought about by human error, and time wasted in training the workforce for system use [12].

Another company that uses an inventory management system is Shamie Dredging Coy. Nigeria Limited. The oil dredging company uses an advanced database management system based on Microsoft Access Database Design called Computer Management of Static and Dynamic Inventory (CMSDI). Some of CMSDI's features include product quantity and shipping tracking and report printing. Aside

from the products, CMSDI can also track the manpower actions to help the management protect their assets from theft and misuse. Furthermore, the system keeps track of supplier information to track the delivery of products. Tracking deliveries can point out where defective merchandise came from and return those [13].

In Thailand, a family furniture business called TJF converted from a manual inventory recording system which was paper based into a computerized stock records. The system had to be replaced since document misplacement may result in lost orders since in some cases, TJF is required by the clients to deliver the furniture after a long span of time. The new system used unique codes to identify their products which were indicated by their names, which were ambiguous prior to automation. Another function performed by the automated system is to display the number of units remaining for each product and inform the users when there is no stock left. The new system also identified which stocks were fast moving and which ones should only be ordered in small amounts. However, the automated system still required the workers to manually count the products to ensure accuracy and reliability [14].

III. Theoretical Framework

A. LA Global Product Trends Inc.

LA Global Product Trends, Inc. is a distributor of cosmetic products manufactured in Europe and United States. Currently, the company owns 86 kiosks in major shopping malls such as SM and Robinsons Shopping Malls. It is owned by Chief Executive Officer Glenn Bolado along with multiple business partners. The company was initially named Pro-Source Impex Philippines in April 2009 with four SM outlets. Their head office and warehouse is stationed in Marsk Building, Balete Drive, Quezon City. As of now, the company provides more than a hundred jobs.

The companys mission is To preserve the natural beauty of the entire human race by treating every customer very special and with the right to be beautiful.

The companys vision is The owners envision LA Global Product Trends Inc. as a leader and world-class entrepreneur provider of innovative products and services focused on natural and affordable health, personal care products and services.

B. Business Rules

According to BusinessDictionary.com, business rules are defined as unwritten assumptions in work. These rules are derived through perceived reactions about information. These rules define the standards followed by the company in doing business [15].

Some of the inventory related business rules observed by the company include setting a threshold for stocks. When the threshold is reached, the sales supervisors submit product orders to the warehouse for processing and delivery. Another business rule observed by the company is that kiosk personnel are required to submit inventory forms monthly to observe personnel productivity and inventory level monitoring. Sales supervisors are also required to validate the inventory forms submitted by the kiosk personnel.

C. Business Analytics

Business Analytics is the practice of studying an organization's data using statistical and operational analysis. It allows analysts to make business related decisions based on the data gathered. Most companies treat their data as assets since it gives them a competitive edge against other companies [16].

An example of business analytics which was used in the system is the forecasting of future results. The system predicted future product demands and total sales for each kiosk using the sales information from the last six months. The forecasting method used was exponential smoothing.

D. Exponential Smoothing

Exponential Smoothing gives importance to recent data in forecasting by providing lower weights for observations that are older [17].

Exponential Smoothing uses three values:

F_{t-1} = Forecast for the period before the current time period t.

A_{t-1} = Actual demand for the period before the current time period t.

α = The smoothing constant which as a weight from 0-1.

The formula for the forecast for current time t is given by:

$$F_t = \alpha * A_{t-1} + (1-\alpha) * F_{t-1} [17]$$

E. Information System

An information system, according to Britannica online, is a set of instruments that are incorporated to collect, store, process and deliver the data. Some of its components include computer hardware and software, along with telecommunications, data storages, human resources and procedures [18].

In businesses, information systems may be used to facilitate effective communications between its human resources and provide basis for sales strategies and planning [13]. Information systems may also be used to properly distribute the

company's products through the product sources and storages [14].

F. Inventory Management System

According to the definition above, the inventory management system is an example of an information system that is concerned with the development of steps to ensure cost reduction, continuous supply production and risk reduction. These systems make sure that the right amount of inventory is kept to maintain the lowest possible investment without sacrificing the efficiency in distribution. Inventory management systems guarantee proper usage of inventory at the right place and at the right time [19, 20]. Inventory systems may be in forms that are unautomated, such as paper based ones, which may cause a lot of paperwork, increased rate of human errors, and untraceable losses. Additional personnel and time allotment may be required by such systems to function properly [2]. Inventory management systems may also be in automated forms such as Spartans CAO/PI.

Inventories are used by companies and organizations as raw material for their products or as the products themselves [2]. According to Merriam-Webster dictionary, an inventory is an itemized list of current assets as a list of good on hand or the quantity of goods at hand [21]. Inventories may also be defined as the unfinished products or the supplies used in producing the company's goods [22]. In general, inventory refers to the supplies used up by business firms to make profit.

In order for an inventory to be a factor to the company's profits, it must be purchased from the company. However, keeping inventories may pose some risks such as expiration, defects, and obsolescence when not kept properly [23]. When handled carefully, holding inventory can protect businesses by providing a steady supply, strategic production of goods, and low ordering costs [8].

In general, the objectives of an inventory management system are to highly utilize the inventory and reduce costs. Inventory management systems should know when to order goods and re-stock and to know how much stocks are required to re-stock [23]. Furthermore, inventory management systems should be able to

reduce waste, facilitate storage and retrieval of goods, and reduce holding costs [20]. When the inventory is managed properly, the administration can anticipate the demands of customers, avoid running out of stocks, and be ready for price deflation or inflation [23].

Inventory management systems help in balancing supply and demand through anticipating demands and delays. Through forecasting which products have high demands and the length of their delivery, inventory management systems determine how much buffer inventory should be kept to lessen the risks of losing sales and holding inactive inventory [19].

G. PHP

PHP or Hypertext Preprocessor is a server-side general purpose scripting language mostly used in web development. It was originally created by Rasmus Lerdorf in 1994.

As of now, PHP is at version 7.0.0 which is twice as fast as PHP 5.6 and has reduced memory usage significantly. It has also improved the Exception hierarchy and has added a secure random number generator [24].

H. CodeIgniter

CodeIgniter is web application framework used in building dynamic websites in PHP. The framework provides a wide set of functionalities to minimize the time consumed by the programmers from coding from scratch. Add-on plugins may also be added for additional features [25].

CodeIgniter boasts of its exceptional speed and performance. It also allows database connection for commonly used ones such as MySQL [25].

IV. Design and Implementation

A. Context Diagram

Figure 1 depicts the context diagram of all the users of the system that interacts with the Inventory System Database. There are five users: the CEO, the Sales Personnel, the Sales Supervisor, Warehouse Personnel and the System Administrator. These different roles will determine which functionalities are accessible to the end user.

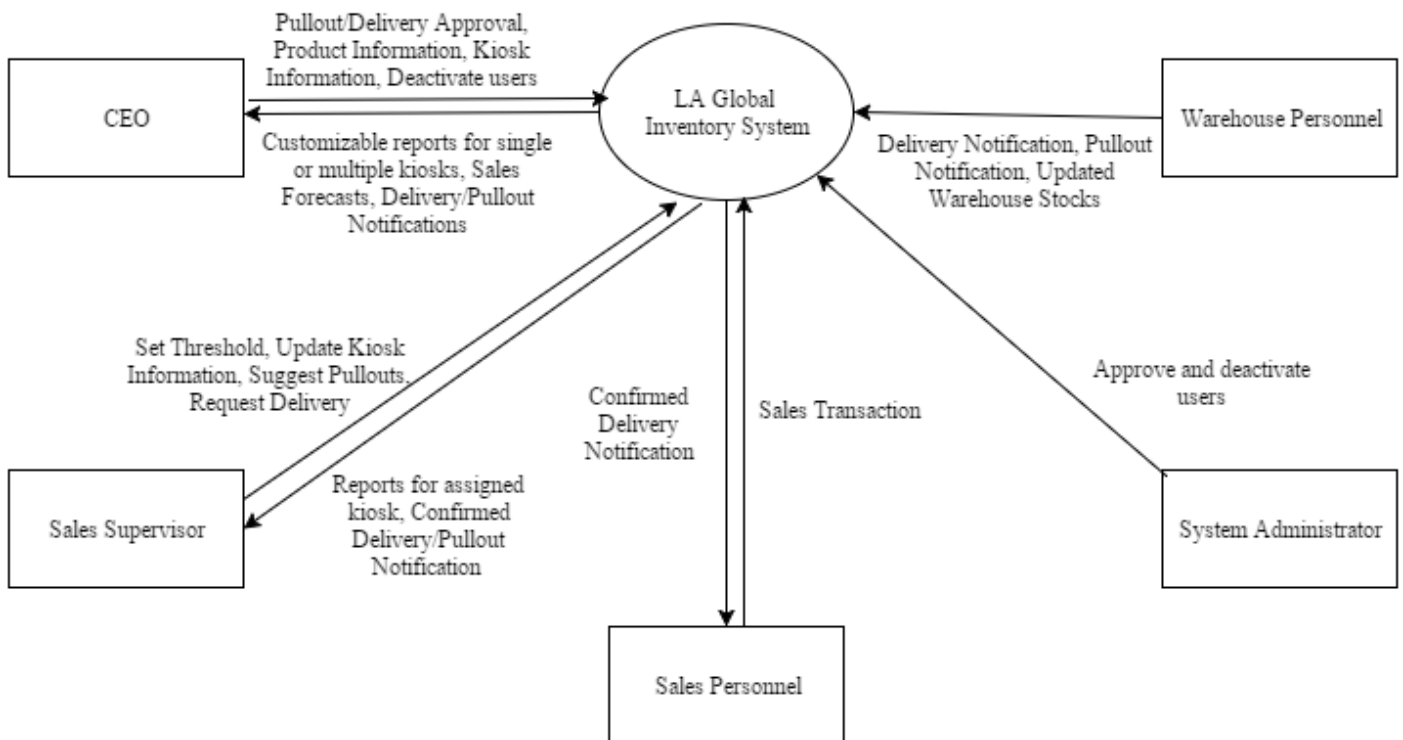


Figure 1: Context Diagram - LA Global Inventory System

B. Data Flow Diagram

Figure 2 depicts the top level data flow diagram for the inventory system. The system will implement eight major processes: Login Processes, Kiosk Processes, Product Processes, View Reports, Analytics, and Notification Processes, Update Sales, Approve/Deactivate Users.

Figure 3 depicts the three sub processes of the Login process. These three processes are the Login User Account, Sign Up and Update User Details.

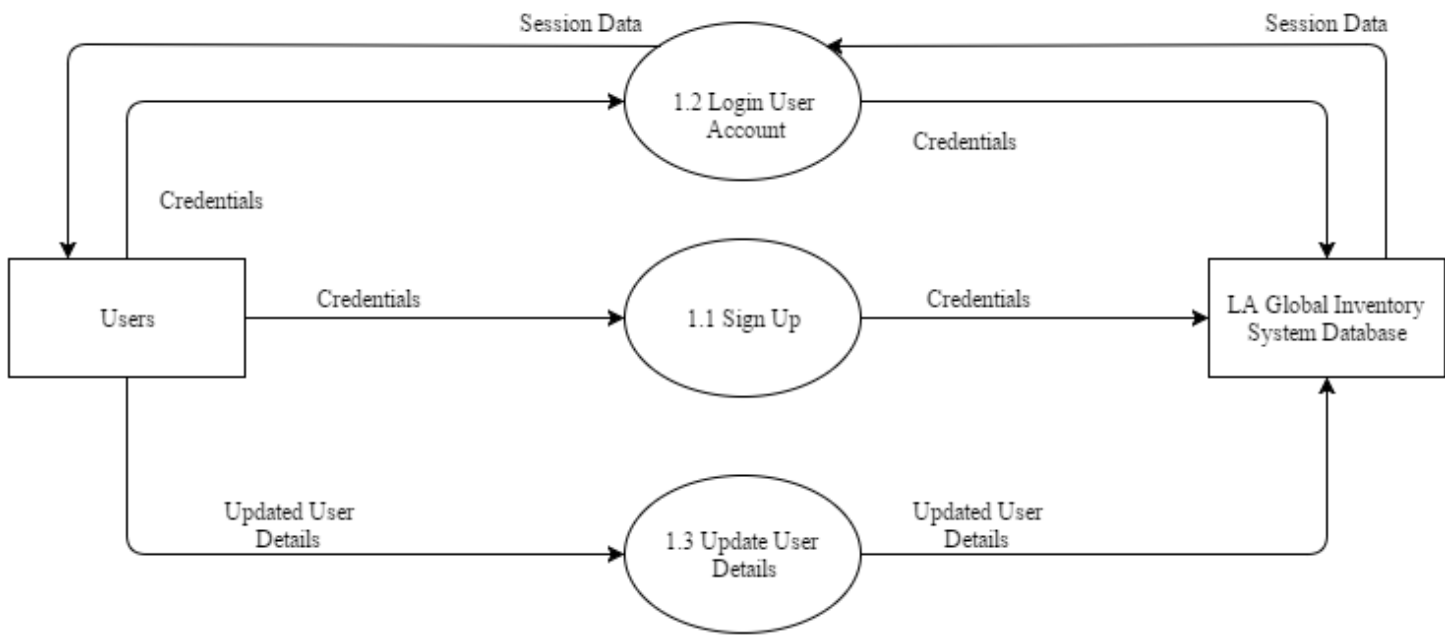


Figure 3: Subexploration of Login Process - LA Global Inventory System

Figure 4 depicts the three sub processes of the Kiosk processes. These three processes are the Create Kiosk, Update Kiosk Details and Create/Update Kiosk Region.

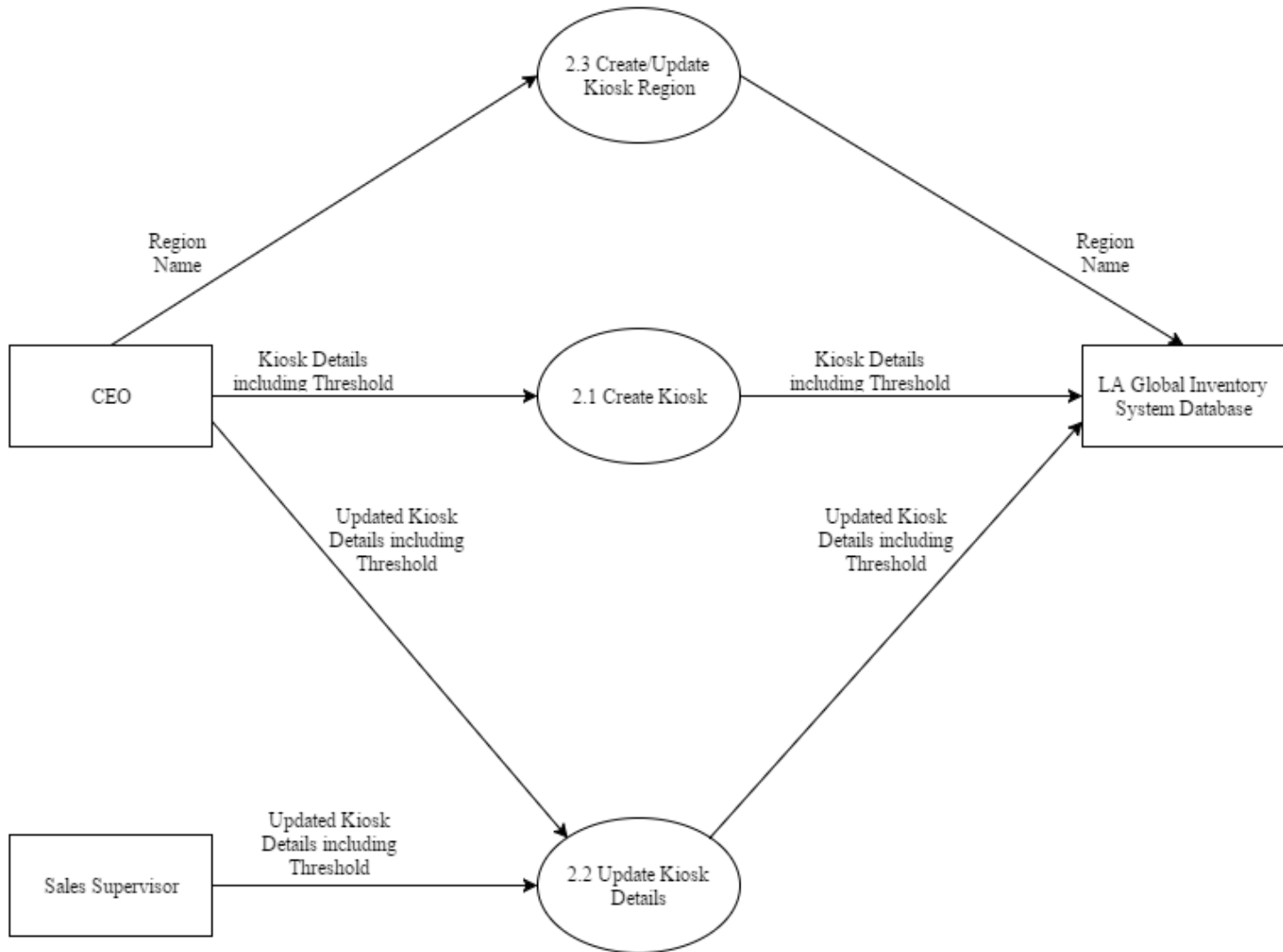


Figure 4: Subexplosion of Kiosk Process - LA Global Inventory System

Figure 5 depicts the two sub processes of the Products processes. These two processes are the Create Products and Update Product Information.

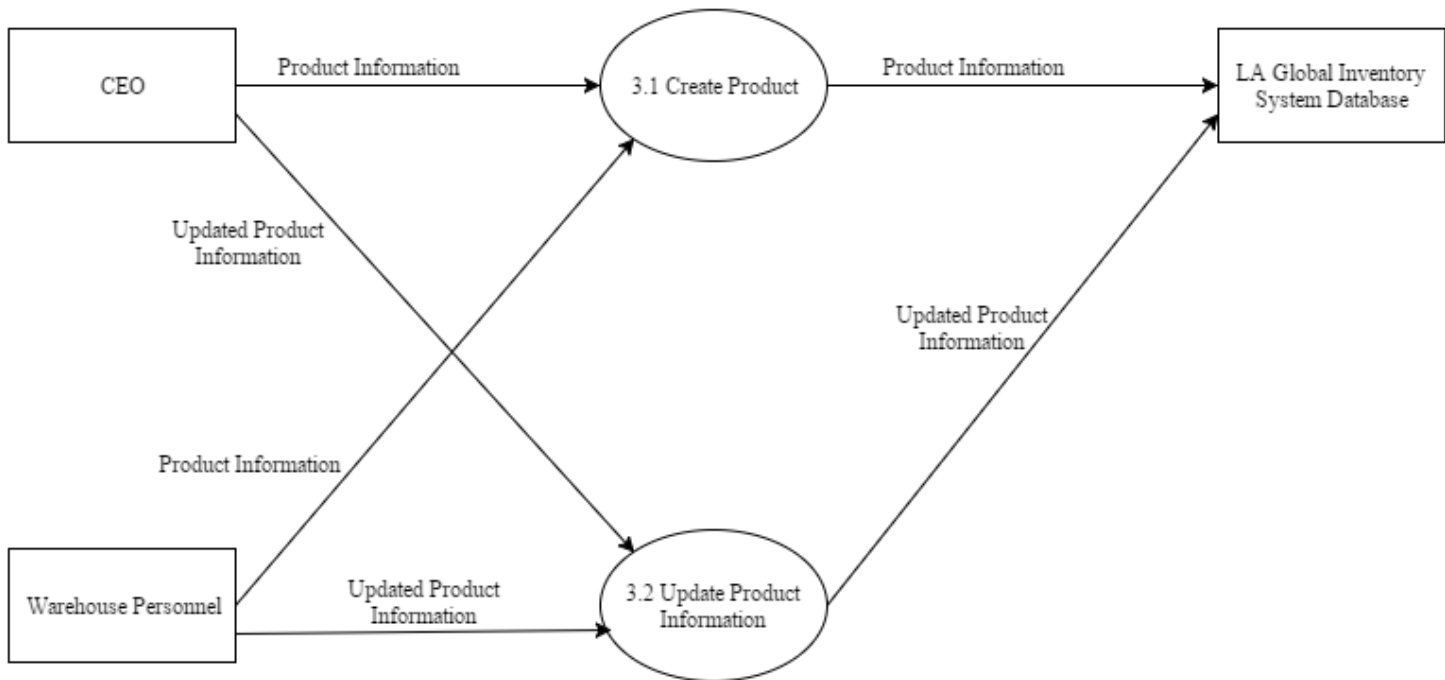


Figure 5: Subexploration of Product Process - LA Global Inventory System

Figure 6 depicts the three sub processes of the View Reports processes. These three processes are the View Kiosk Reports, View Product Reports, and View Region Reports.

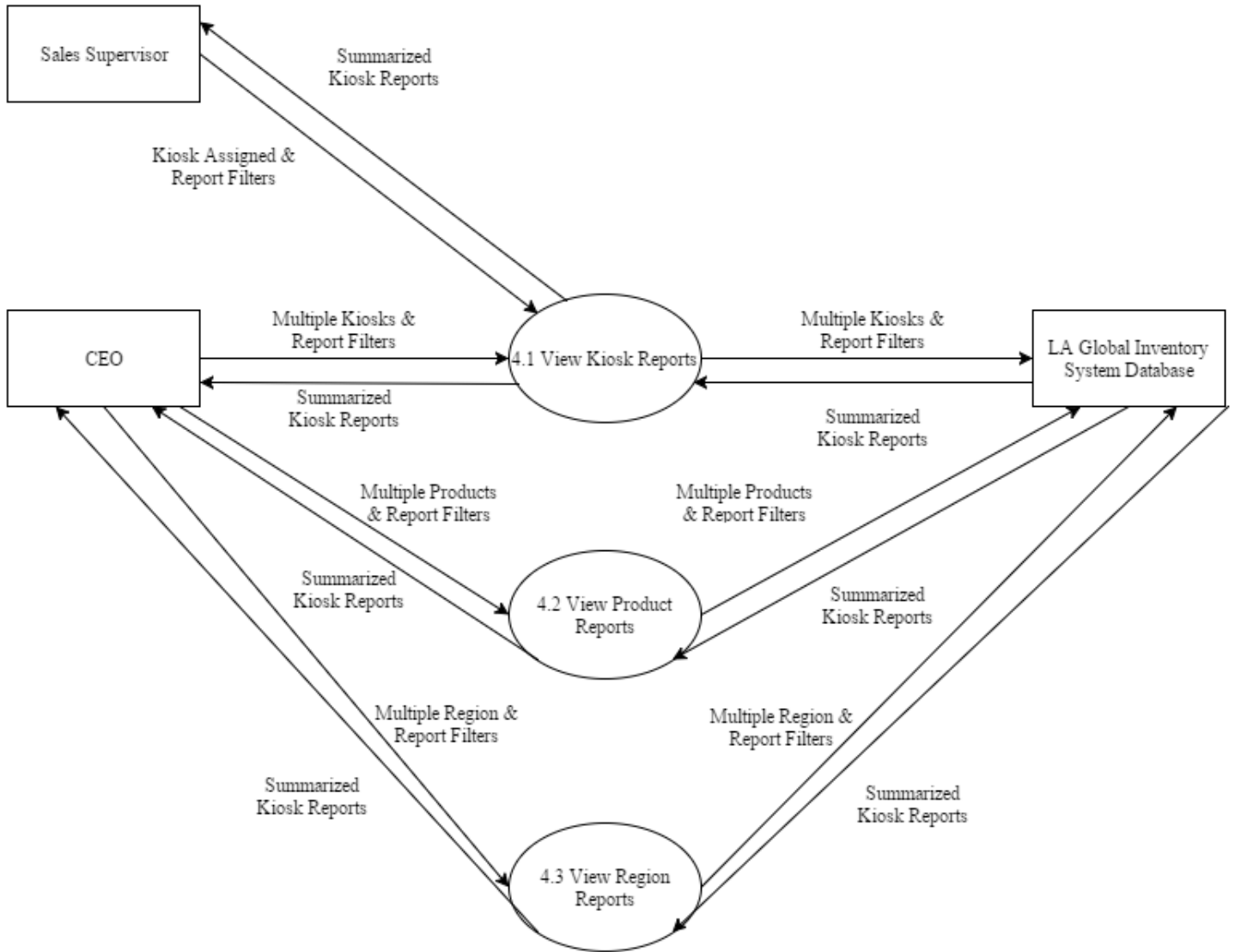


Figure 6: Subexploration of View Reports Process - LA Global Inventory System

Figure 7 depicts the three sub processes of the Notification processes. These three processes are the View Notification, Accept/Reject Notification, and Send Notification.

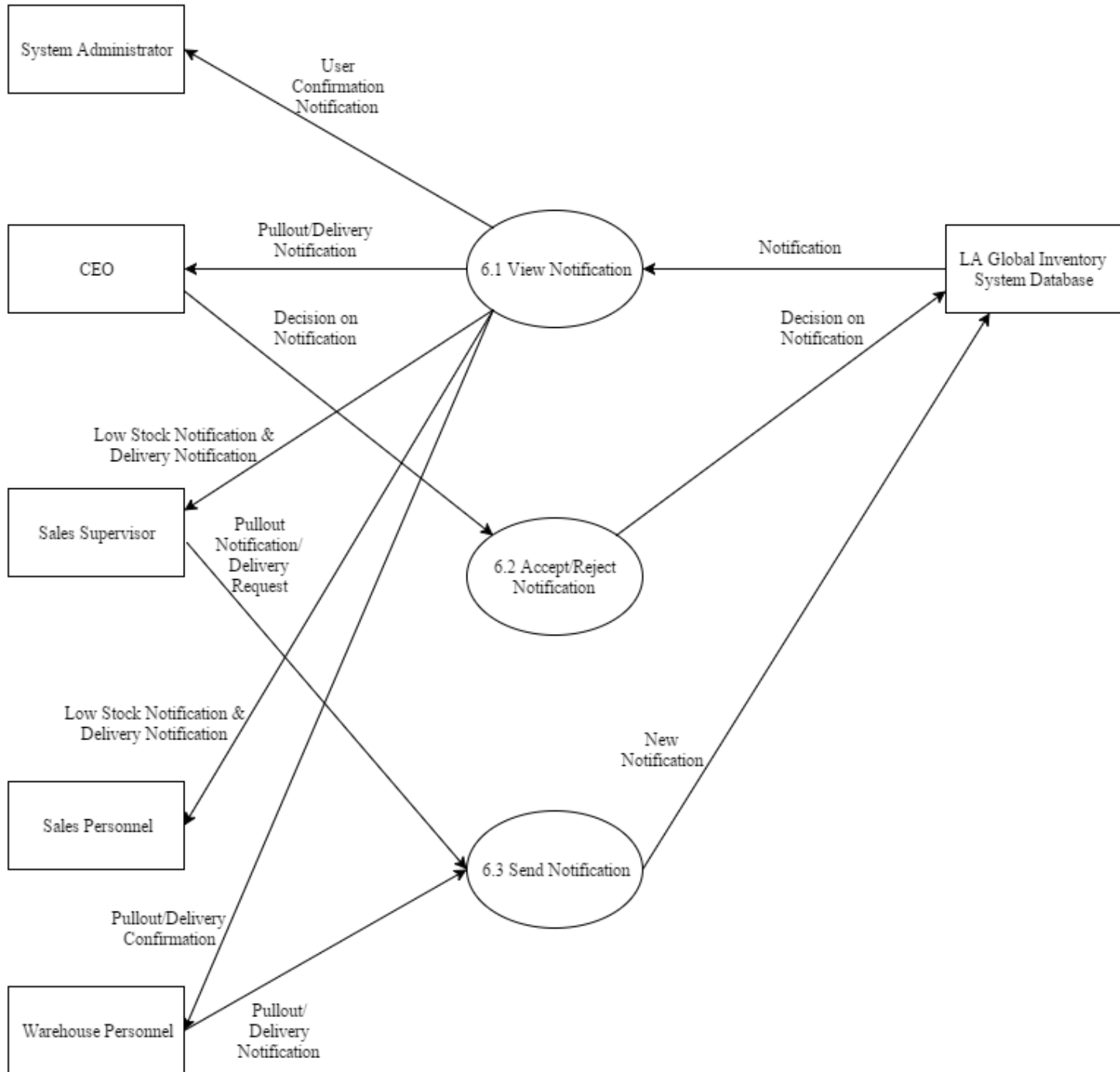


Figure 7: Subexplosion of Notification Process - LA Global Inventory System

C. Entity Relationship Diagram

Figure 8 is the Entity Relationship Diagram which shows the relationship between the tables in the database. The database is necessary to store the sales information, transaction information, kiosk information, product information, notifications, and user information.

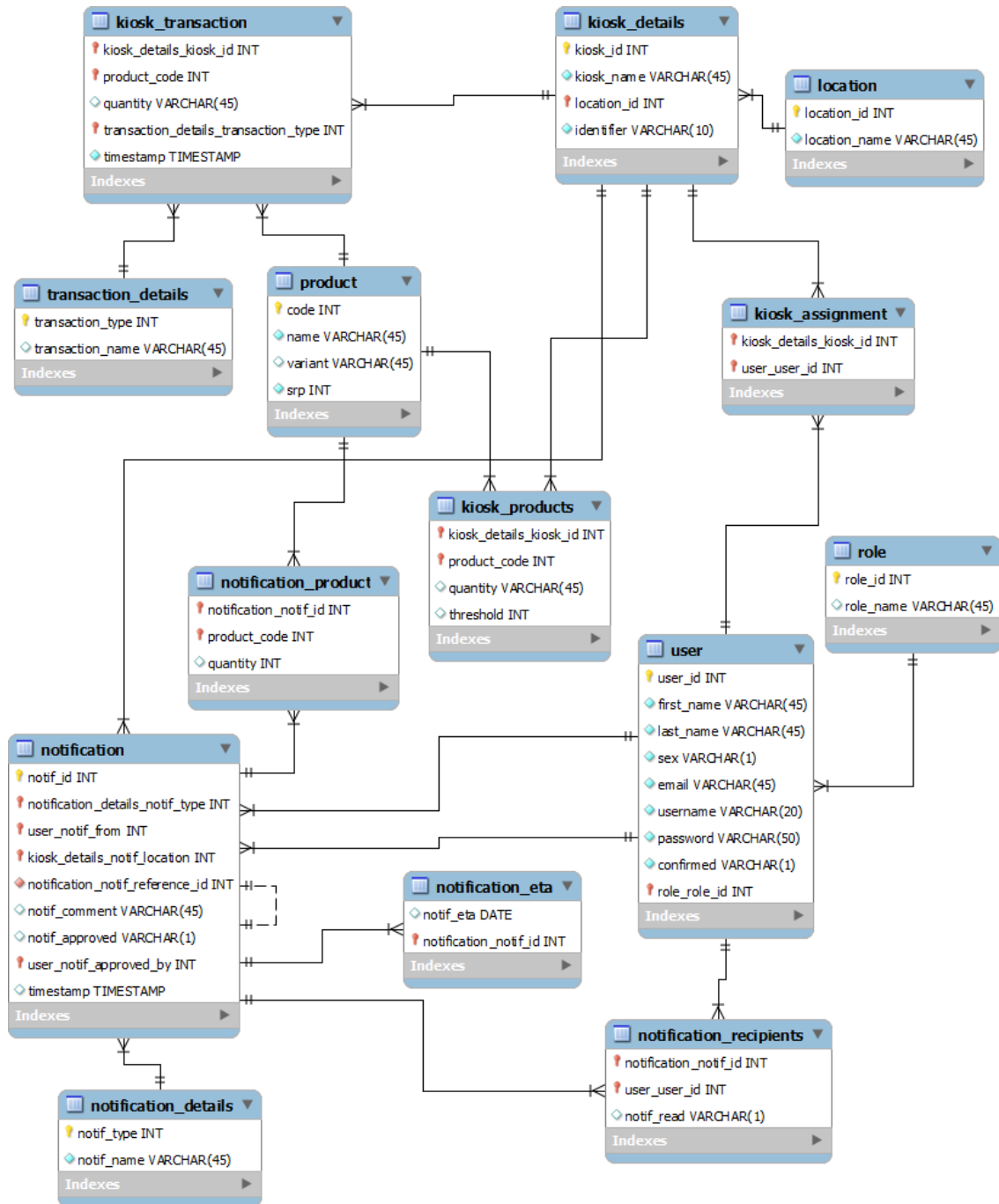


Figure 8: Entity Relationship Diagram - LA Global Inventory System

D. Use Case Diagram

Figure 9 depicts the use-case diagram for the actions performed by each user in the inventory system. Each user role can perform different actions. The Sales Personnel can update sales transactions and record condemned items. The CEO, on the other hand, can create and update kiosks and products, generate reports, view analytics, and decide on pullout and delivery requests. The Sales Supervisor can set product thresholds, and make stock replenishment or pullout requests. The Warehouse Personnel can create and update products, set warehouse thresholds, update warehouse stocks, record condemned items in the warehouse, and make delivery notifications. Lastly, the System Administrator can approve or deactivate users.

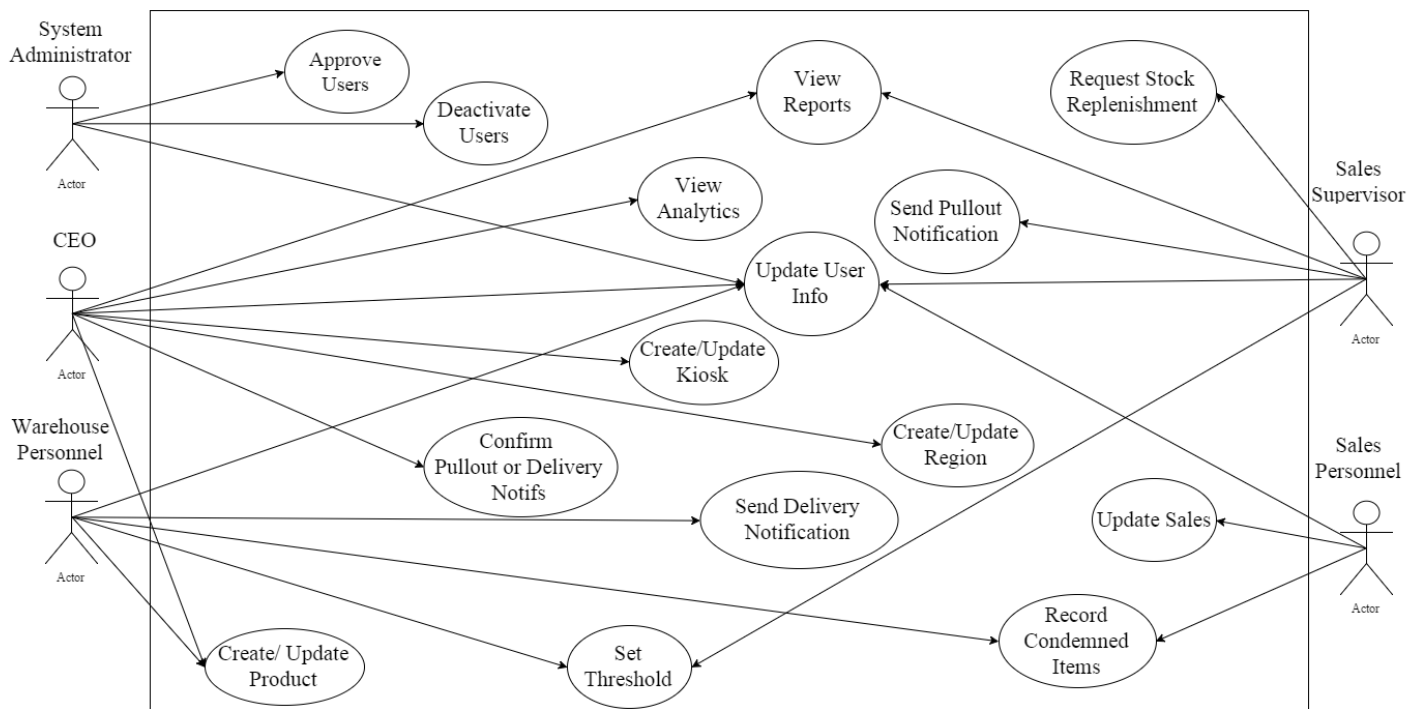


Figure 9: Use Case Diagram - LA Global Inventory System

E. Database Design

Column	Type	Description
user_id	int	unique id of the user
first_name	varchar(45)	users first name
last_name	varchar(45)	users last name
sex	varchar(1)	sex of user (M or F)
email	varchar(45)	users email
username	varchar(20)	username of the user
password	varchar(64)	encrypted user password for security
role_id	int	unique id of the user role
confirmed	varchar(1)	character denoting the approval (T) or deactivation (F) of the account.

Table 1: user table

Column	Type	Description
kiosk_id	int	unique id of the kiosk where the user is assigned to
user_id	int	unique id of the user assigned to the kiosk

Table 2: kiosk assignment table

Column	Type	Description
kiosk_id	int	unique id of the kiosk
kiosk_name	varchar(45)	name of the kiosk
location_id	int	unique id of the regional grouping of the kiosk.

Table 3: kiosk details table

Column	Type	Description
location_id	int	unique id of the regional grouping of kiosks (used in generating reports)
location_name	varchar(45)	name of the regional grouping

Table 4: location table

Column	Type	Description
kiosk_id	int	unique id of the kiosk containing the product
code	int	unique id of the product
quantity	int	quantity of the products remaining in the kiosk
threshold	int	threshold quantity

Table 5: kiosk products table

Column	Type	Description
kiosk_id	int	unique id of the kiosk involved in the transaction
code	int	unique id of the product involved in the transaction
quantity	int	quantity of the products involved in the transaction
transaction_type	int	unique id for the transaction that occurred
timestamp	timestamp	date and time of the occurrence of the transaction
transaction_id	int	unique identifier for the individual product transaction.

Table 6: kiosk transaction table

Column	Type	Description
transaction_id	int	unique identifier for the individual product transaction.
transaction_comment	varchar(75)	reason to justify the product's condemnation status

Table 7: kiosk transaction comment table

Column	Type	Description
transaction_type	int	unique id for a transaction
transaction_name	varchar(45)	Name of the transaction

Table 8: transaction details table

Column	Type	Description
notif_id	int	unique id of the notification
notif_type	int	unique id for the type of notification
notif_from	int	unique id of the notification sender
notif_location	int	unique id of the kiosk assigned to the sender or the warehouse
notif_reference	int	unique id of the notification used as a reference for the new notification (confirmation notifications)
notif_comment	varchar(150)	CEOs comment on the notification
notif_approved	varchar(1)	implies that a decision has been made regarding the request in the notification (T or F)
notif_approved_by	int	unique id of the user who made a decision on the request in the notification
timestamp	timestamp	date and time of the arrival of the notification

Table 9: notification table

Column	Type	Description
notif_type	int	unique id for a notification type
notif_name	varchar(45)	Name of the notification type

Table 10: notification details table

Column	Type	Description
notif_id	int	unique id for the notification
notif_eta	date	estimated time of arrival of the delivery.

Table 11: notification eta table

Column	Type	Description
notif_id	int	unique id for the notification
code	int	unique id of the product
quantity	int	quantity of the products indicated in the notification
approved	varchar(1)	T if the product transaction is approved, F otherwise.

Table 12: notification products table

Column	Type	Description
notif_id	int	unique id for the notification
user_id	int	unique id of the user receiving the notification
notif_read	varchar(1)	implies that the notification has been read by the recipient (T or F)

Table 13: notification recipients table

Column	Type	Description
name	varchar(45)	name of the product
variant	varchar(45)	variant of the product (color, flavor etc.)
code	int	unique id of the product
srp	int	suggested retail price of the product
identifier	varchar(10)	shortened code for the product

Table 14: product table

Column	Type	Description
role_id	int	unique id of the user role
role_name	varchar(45)	job of the user

Table 15: role table

V. Results

In order to gain access to the Inventory System, all users must Log in through a common Log In page as seen in Figure 10. If the user does not have an account, the user can sign up for an account by clicking the gray “Sign Up” button beneath the “Sign In” button. Otherwise, the user can log in by entering his/her username and password before clicking the “Sign In” button. S/he will be redirected to the Dashboard if the log in process is successful.

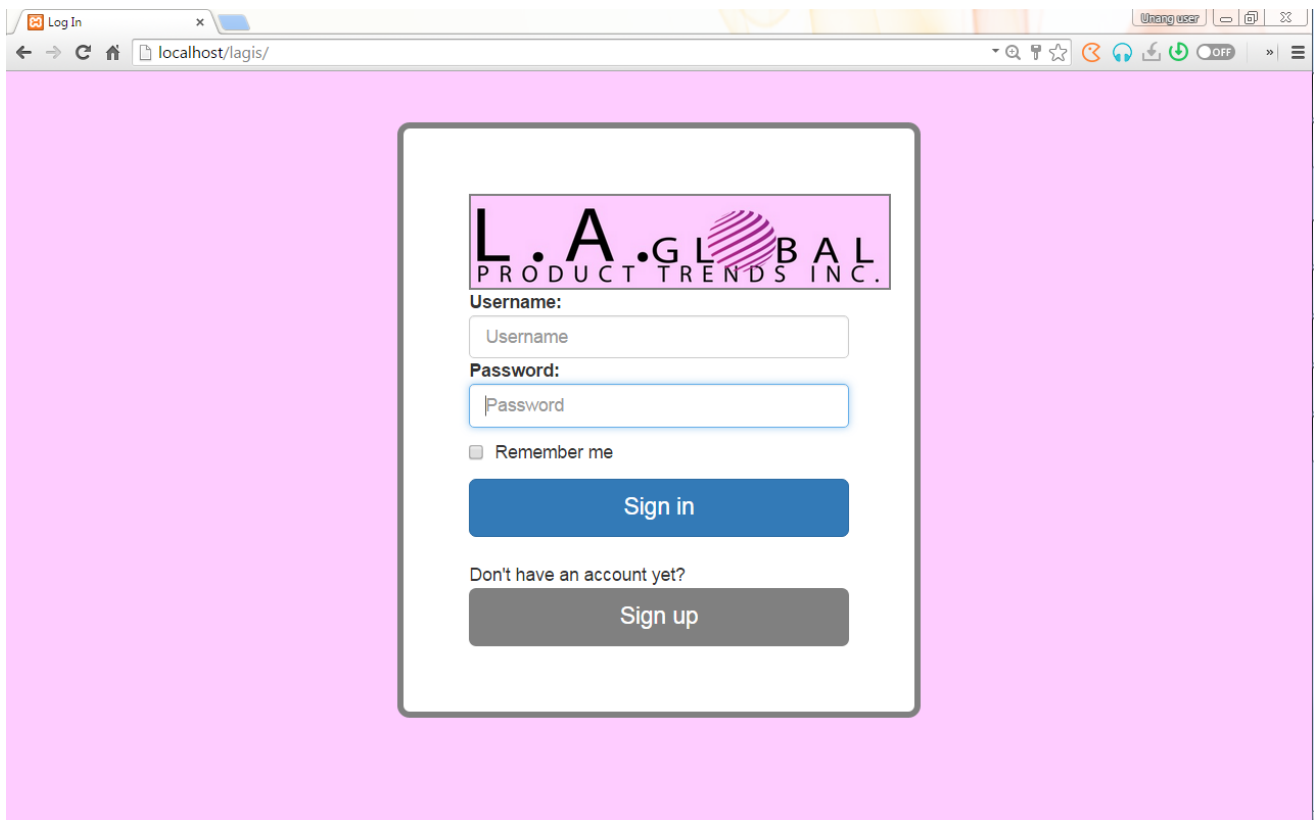


Figure 10: Login Page - LA Global Inventory System

When the user clicks on the “Sign Up” button, the user will be redirected to the Sign Up page as seen in Figure 11. The user has to complete the form by entering his/her credentials such as his/her first and last name, e-mail address, sex, desired username, password and role in the company. The password should be at least 8 characters long and should have at least one uppercase letter, one lowercase letter, and one number. Currently, there are 5 roles available in the system these are: Sales Personnel, CEO, Sales Supervisor, Warehouse Personnel, and System Administrator. Once the user has accomplished the form, s/he can click on the “Register” button to submit his/her details. The user has to wait for the System Administrator’s approval before s/he can use the account to log into the system.

The screenshot shows a web browser window with the URL localhost/lagis/signup. The page title is "User Registration Form". On the left, there is a logo for "L.A. GLOBAL PRODUCT TRENDS INC." and two sections: "Vision" and "Mission". The "Vision" section states: "The owners envision LA Global Product Trends, Inc. as a Leader & World-Class Entrepreneur-Provider of Innovative Products and Services focused on Natural & affordable Health, Personal Care Products & Services." The "Mission" section states: "To preserve the natural beauty of the entire human race by treating every customer very special & by giving them the right to be beautiful". On the right, the registration form contains the following fields and options: "First Name:" (text input), "Last Name:" (text input), "Sex:" (radio buttons for Male and Female), "E-Mail Address:" (text input), "Username:" (text input), "Password:" (text input), "Confirm Password:" (text input), and "User Role:" (dropdown menu with "Administrator" selected). At the bottom, there are two buttons: "Register" (with a checkmark icon) and "Clear" (with an X icon).

Figure 11: Signup Page - LA Global Inventory System

Once the user has successfully logged on to the system, s/he will be redirected to the Dashboard page as seen in Figure 12. The default Dashboard shows only the unread Notifications of the user. This type of Dashboard is accessible to the Warehouse Personnel and the System Administrator. The Sidebar Menu containing the pages accessible to the user is located on the leftmost part of the page. The Notification dropdown list and the Logout link is located on the top right part of the page. The Notification dropdown list contains the list of the unread notifications and the link which will transport you to the List of Notifications page. The Sidebar Menu, Notifications dropdown list, and Logout link is shown on every page of the Inventory System.

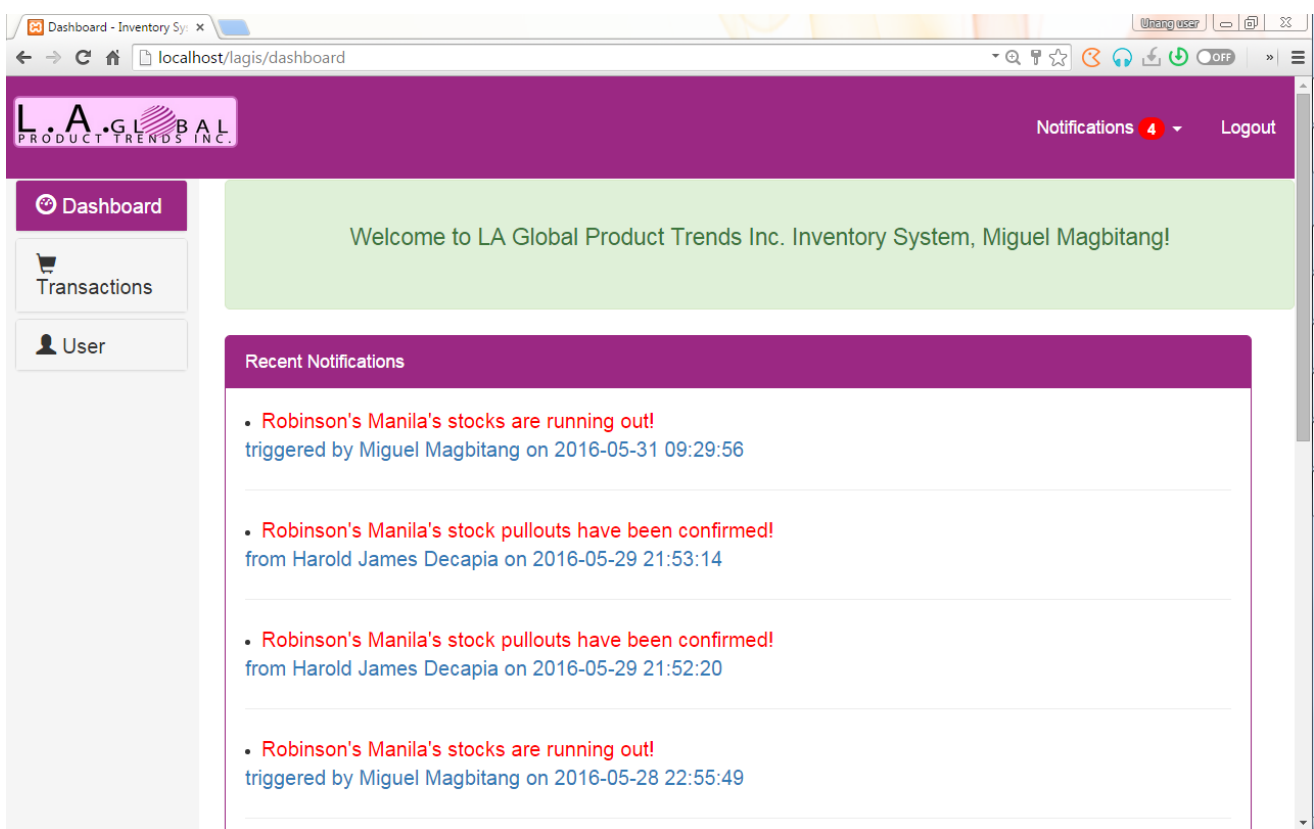


Figure 12: Dashboard - LA Global Inventory System

The chart displayed on the Dashboard, as seen in Figure 13, is the total sales of the kiosk assigned to the Sales Personnel or the Sales Supervisor for the past 7 days. For the CEO's Dashboard, the total sales of all the kiosk for the past 7 days will be displayed on the chart. Figures 12-13 are both taken from a Sales Personnel's Dashboard.

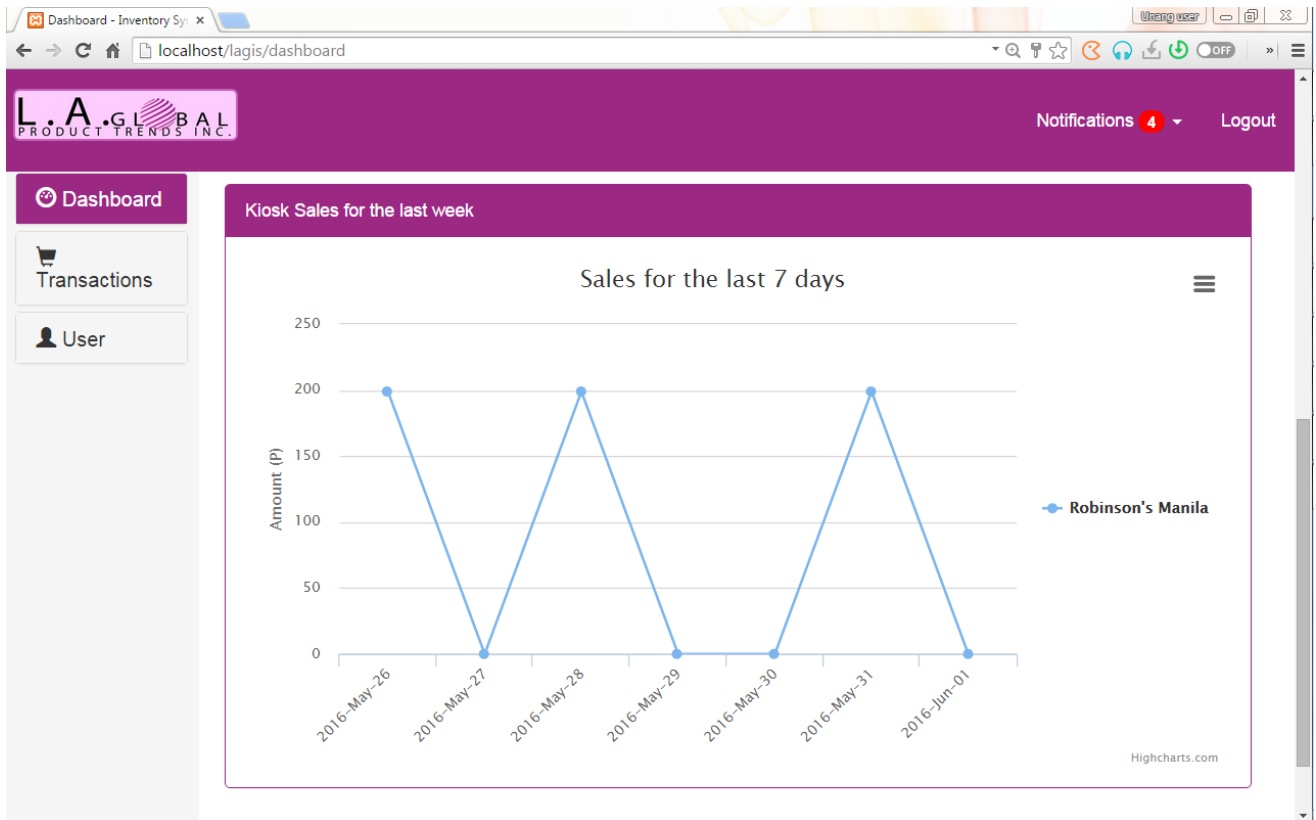


Figure 13: Dashboard - LA Global Inventory System

When the Sales Personnel clicks on the Transactions button on the Sidebar Menu, the button will show a list of links available to the user. One of which is a link to the Update Sales page which is shown in Figure 14. The Update Sales Page shows all the information of the products stored in the kiosks, including the quantity remaining. A spinner input is located at the rightmost part of the table which can be used in indicating the number of items purchased by a customer. Once the “Submit” button at the bottom of the page is clicked, the quantity of the products remaining in the store is decreased by the number entered by the user.

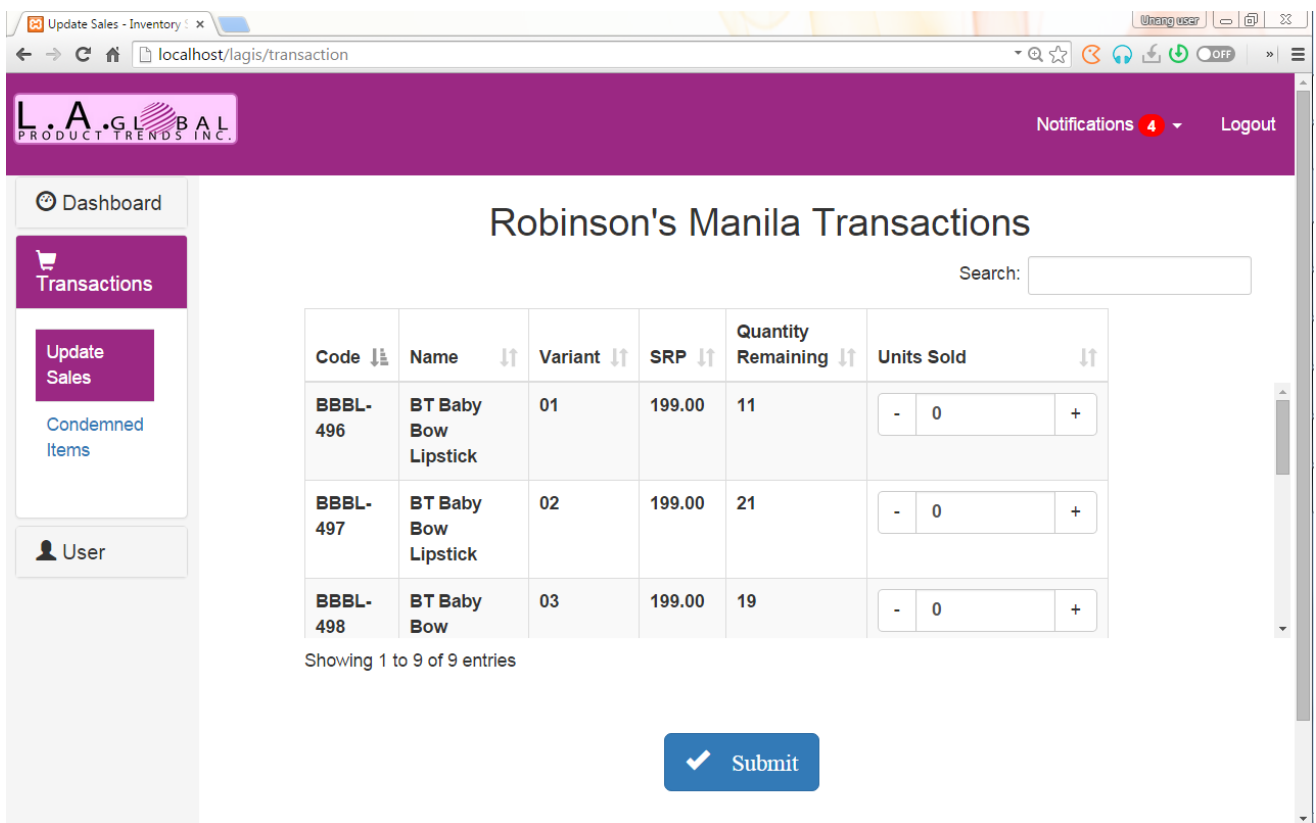


Figure 14: Update Sales - LA Global Inventory System

The other link from the Transactions Button accessible to the Sales Personnel is a link to the Condemned Items page as depicted in Figure 15. Like in the Update Sales page, the Condemned Items page shows a list of the products stored in the kiosk and a spinner input for each product. The table also includes a Transaction Type dropdown list. The dropdown list includes three types: Tester, Damaged, and Missing. A comment box is also provided for each product which will allow the Sales Personnel to justify the reason of the condemnation of the product. The spinner input is used in indicating the number of condemned items for a specific product. The Warehouse Personnel can also access the Condemned Items page which allows him/her to condemn items in the Warehouse.

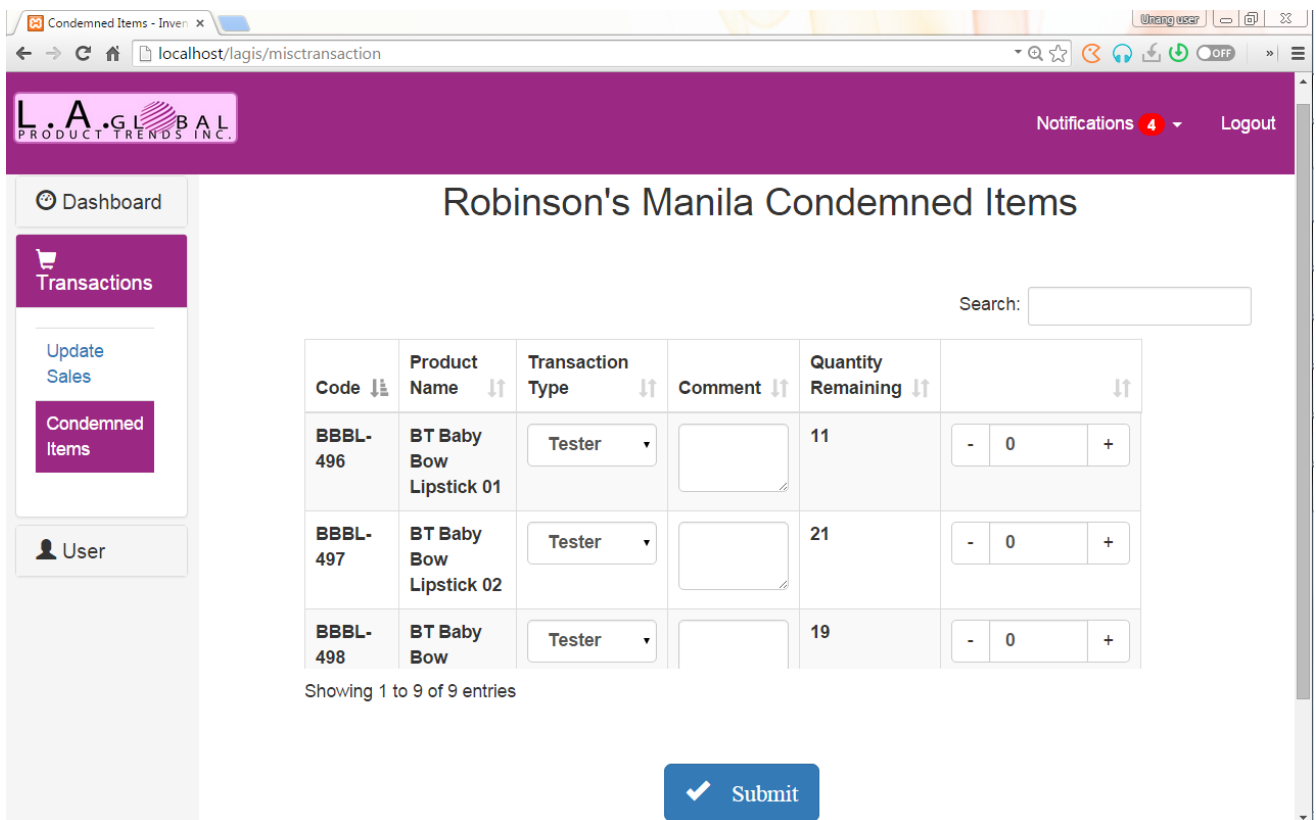


Figure 15: Condemned Items - LA Global Inventory System

The user can also click on the User button which will show the link to the User Profile page shown in Figure 16. The details entered by the user in the sign up form will be displayed on the user's profile. The User Profile page allows the user to update the user's details including the password. The same criteria for the password used in the Sign Up page is also used on this page. All users have access to their user profile.

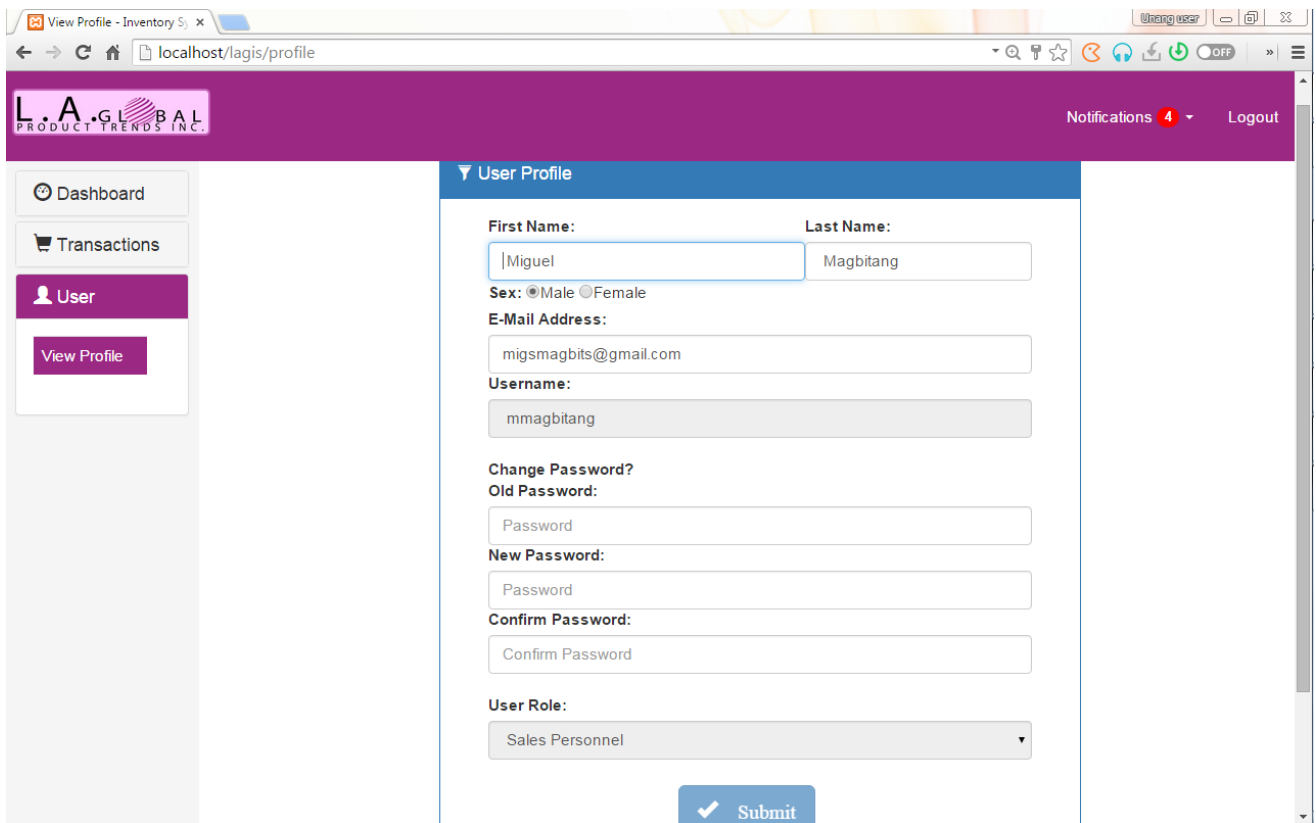


Figure 16: User Profile - LA Global Inventory System

The user can access all of his/her notifications, read or unread, in the List of Notifications page, as seen in Figure 17, using the “View recent notifications” link located in the Notifications dropdown list. The notifications that are blue in color are read notifications. The red ones, on the other hand, are unread ones. The details of the notification displayed on this page includes the name of the kiosk assigned to the user, the type of notification, the notification sender, and the timestamp of when the notification was sent.

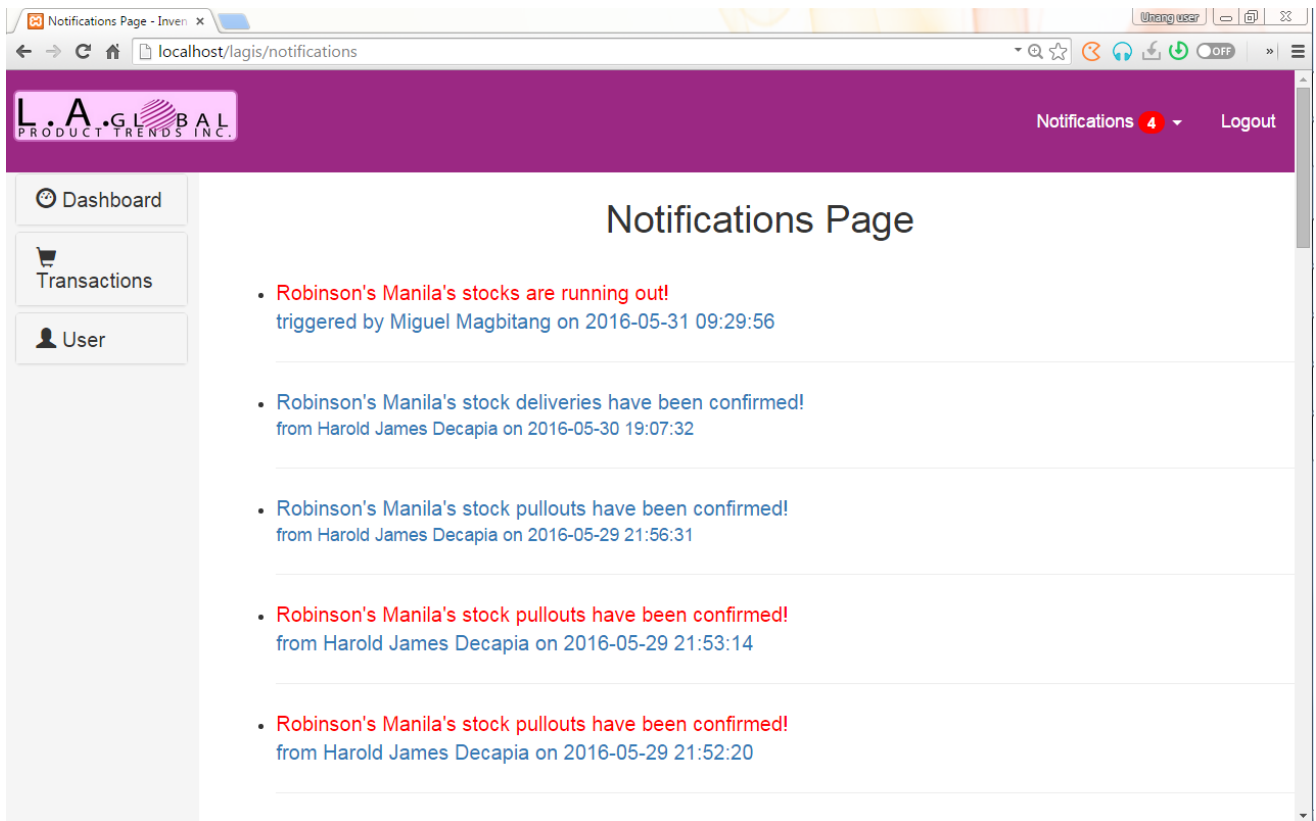


Figure 17: List of Notifications - LA Global Inventory System

When the user clicks on a notification's link, the user will be redirected to the notification's page. One type of notification received by the Sales Personnel is the Stock Replenishment Notification as seen in Figures 18-19. For the Sales Personnel, only the Details panel and the product details (first table on Figure 18) will be shown. For the Sales Supervisor, a request table (second table on Figure 18) and a comment text area will be shown. Figures 18-19 is taken from a Sales Supervisor's Stock Replenishment Notification.

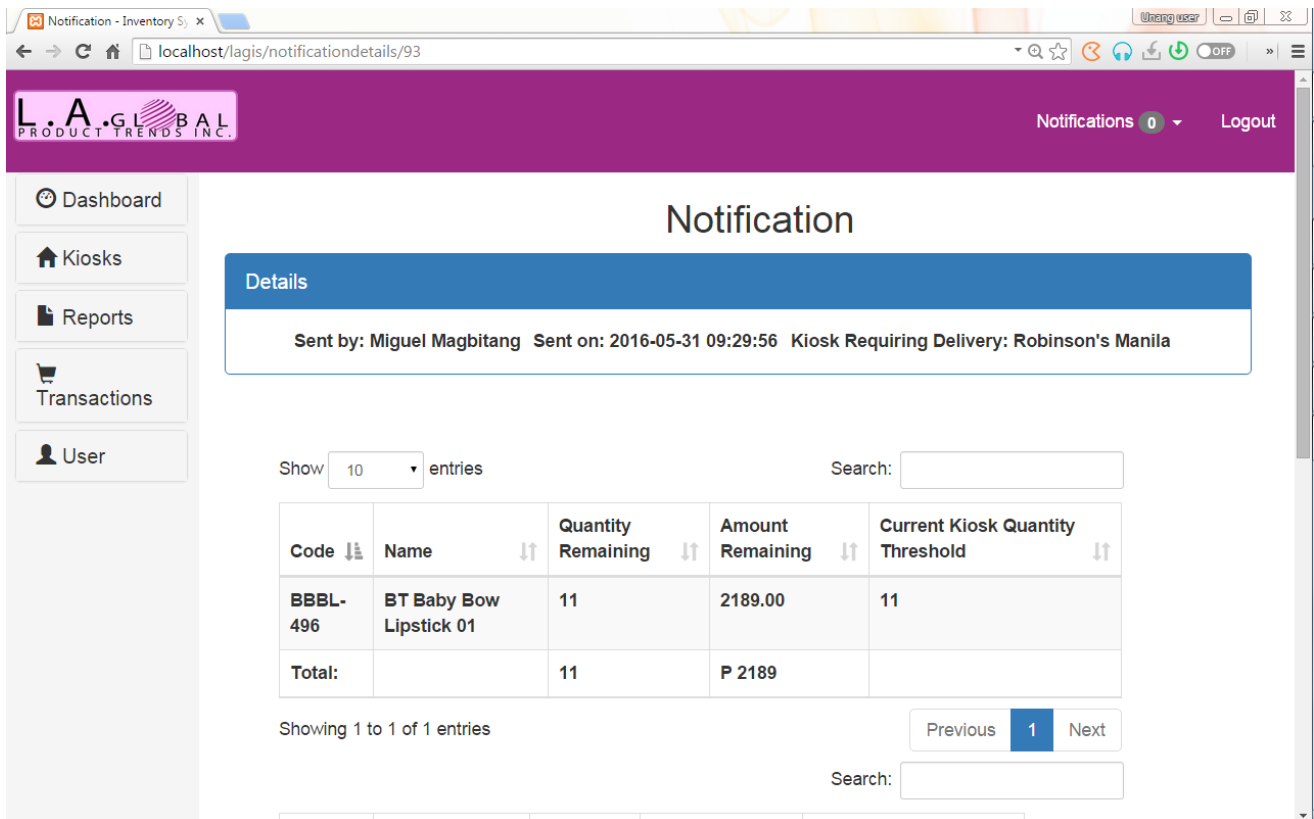


Figure 18: Stock Replenishment Notification - LA Global Inventory System

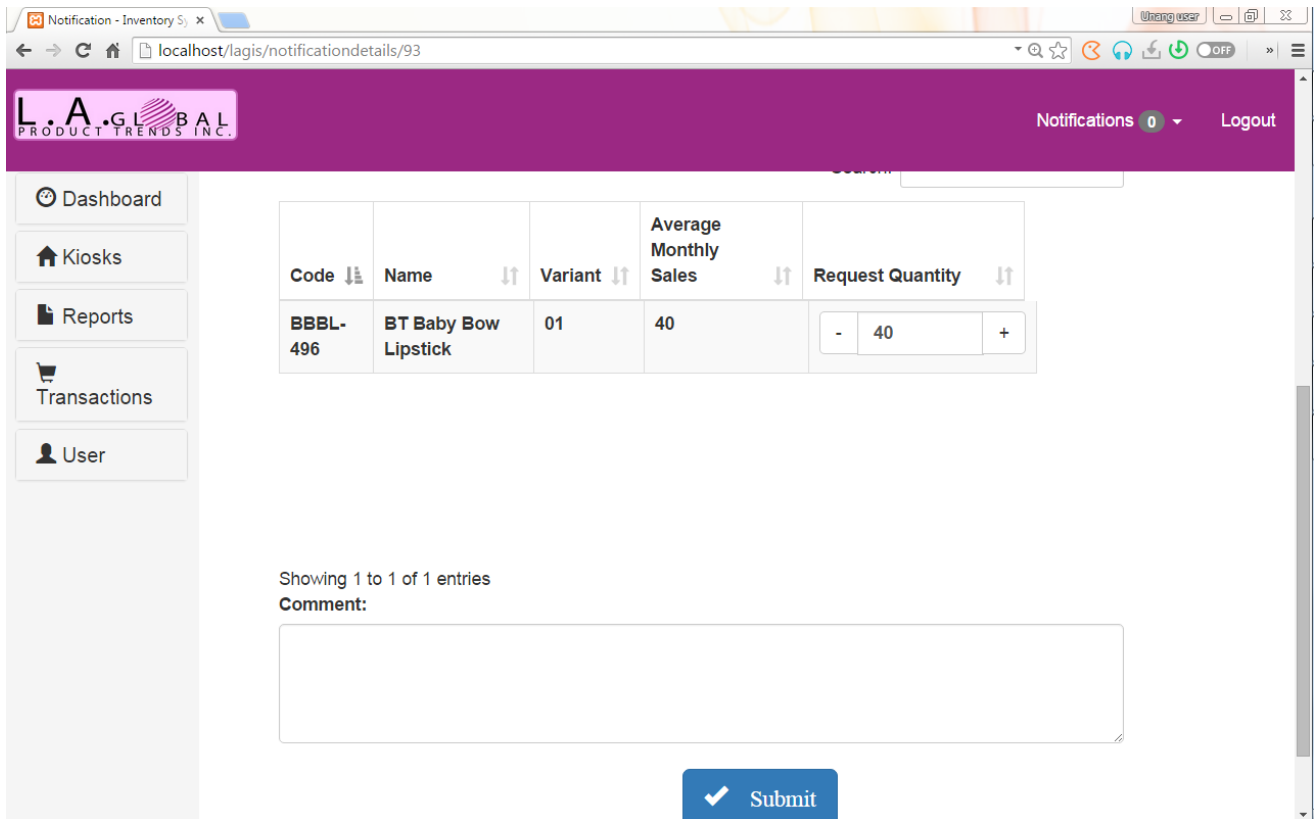


Figure 19: Stock Replenishment Notification - LA Global Inventory System

The last type of Notification accessible to the Sales Personnel is the Delivery Confirmation Notification as shown in Figures 20-21. For the Sales Personnel and Sales Supervisor, only the Details Panel and the product details table without the Delivery Status column will be displayed. For the the Warehouse Personnel, the Details Panel, the comment text area and the complete product details table will be shown. Figures 20-21 is taken from a Warehouse Personnel's Delivery Confirmation Notification.

Notification

Details

Sent by: Harold James Decapia Sent on: 2016-05-30 19:07:32 Delivered to: Robinson's Manila Estimated Date of Arrival: 2016-05-30

Show 10 entries Search:

Code	Name	Quantity Requested	Amount	Current Kiosk Quantity Threshold	Current Kiosk Quantity Remaining	Delivery Status
BBBL-496	BT Baby Bow Lipstick 01	10	1990.00	11	11	Approved
BBBL-497	BT Baby Bow Lipstick	10	1990.00	12	21	Approved

Figure 20: Delivery Confirmation Notification - LA Global Inventory System

Notification

Showing 1 to 4 of 4 entries Previous 1 Next

Code	Name	Quantity Requested	Amount	Current Kiosk Quantity Threshold	Current Kiosk Quantity Remaining	Delivery Status
BBBL-498	BT Baby Bow Lipstick 03	10	1990.00	5	19	Approved
BBBL-499	BT Baby Bow Lipstick 04	10	1990.00	0	0	Rejected
Total:		40	P 7960			

Comment:

BBBL - 499 9 units

[Get PDF](#)

Figure 21: Delivery Confirmation Notification - LA Global Inventory System

Another type of Notification accessible to the Sales Personnel is the Pullout Confirmation Notification as shown in Figures 22-23. For the Sales Personnel and Sales Supervisor, the Details Panel and the complete product details table will be shown. For the the Warehouse Personnel, only the Details Panel and the product details table without the Pullout Status column will be displayed. Figures 22-23 is taken from a Sales Supervisor’s Pullout Confirmation Notification.

The screenshot shows a web browser window with the URL localhost/lagis/notificationdetails/90. The application header includes the logo for L.A. GLOBAL BAL PRODUCT TRENDS INC. and navigation links for Dashboard, Kiosks, Reports, Transactions, and User. The main content area is titled 'Notification' and features a 'Details' panel with the following information: Sent by: Harold James Decapia, Sent on: 2016-05-29 21:56:31, Pullout Stocks from: Robinson's Manila. Below the details panel, there is a search bar and a table displaying product details. The table has 7 columns: Code, Name, Quantity Requested, Amount, Current Kiosk Quantity Threshold, Current Kiosk Quantity Remaining, and Pullout Status. Two rows of data are shown, both with a quantity of 1 and a status of 'Approved'.

Code	Name	Quantity Requested	Amount	Current Kiosk Quantity Threshold	Current Kiosk Quantity Remaining	Pullout Status
BBBL-496	BT Baby Bow Lipstick 01	1	199.00	11	11	Approved
BBBL-497	BT Baby Bow Lipstick 02	1	199.00	12	21	Approved

Figure 22: Pullout Confirmation Notification - LA Global Inventory System

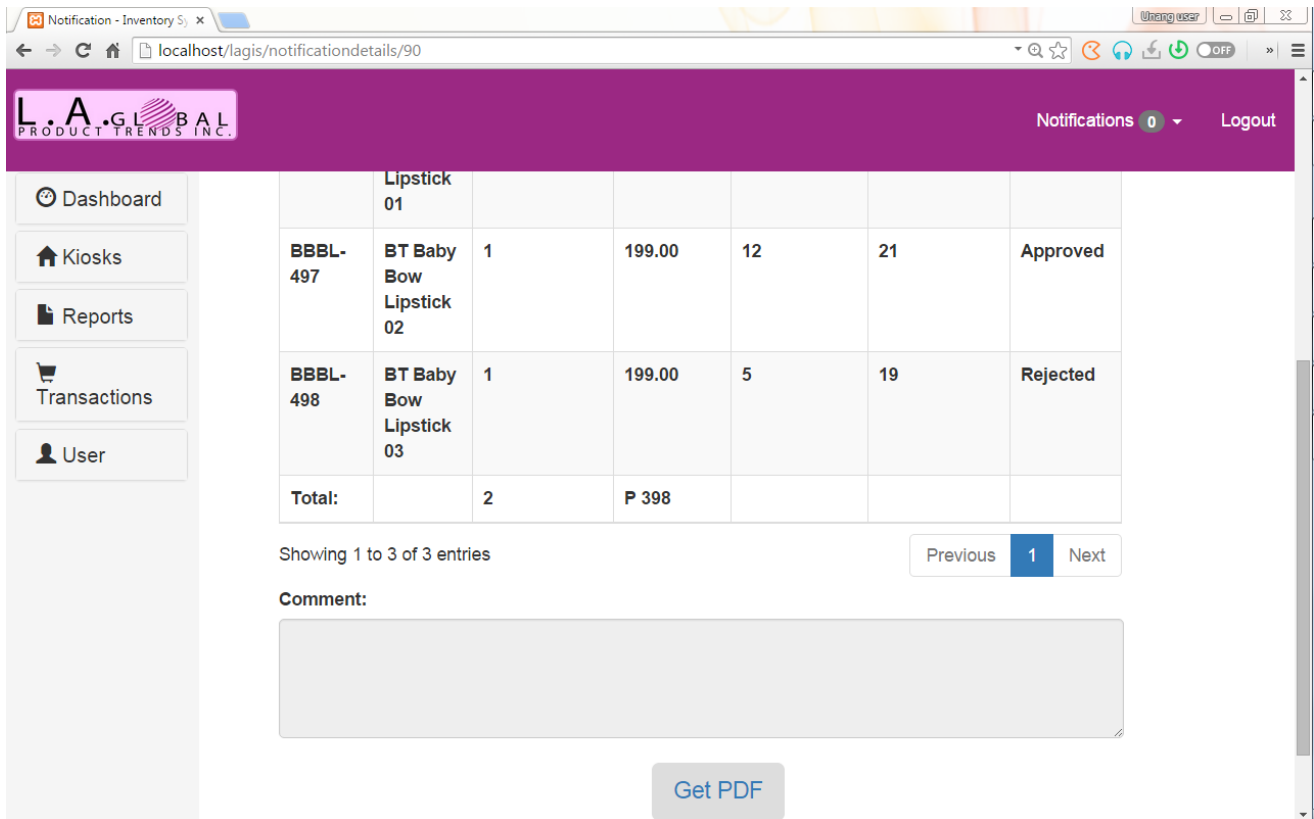


Figure 23: Pullout Confirmation Notification - LA Global Inventory System

The next type of user, the CEO, can register and update kiosk information by clicking on the Kiosk button on the sidebar and then clicking the Register Kiosk or Update Kiosk Information link. The two pages are similar in appearance as shown in Figures 24-25. Only the CEO can access the Register Kiosk Page. However, the Update Kiosk Information page can be accessed by both the CEO and the Sales Supervisor. The CEO can set the Kiosk's name, Location or Region, and the Kiosk Assignments. The CEO can also set the products that are already in the Kiosk in the Kiosk Registration page if the Kiosk is pre-existing prior to the installation of the system. The Sales Supervisor, on the other hand, can only update the Kiosk's name, and the Location or Region.

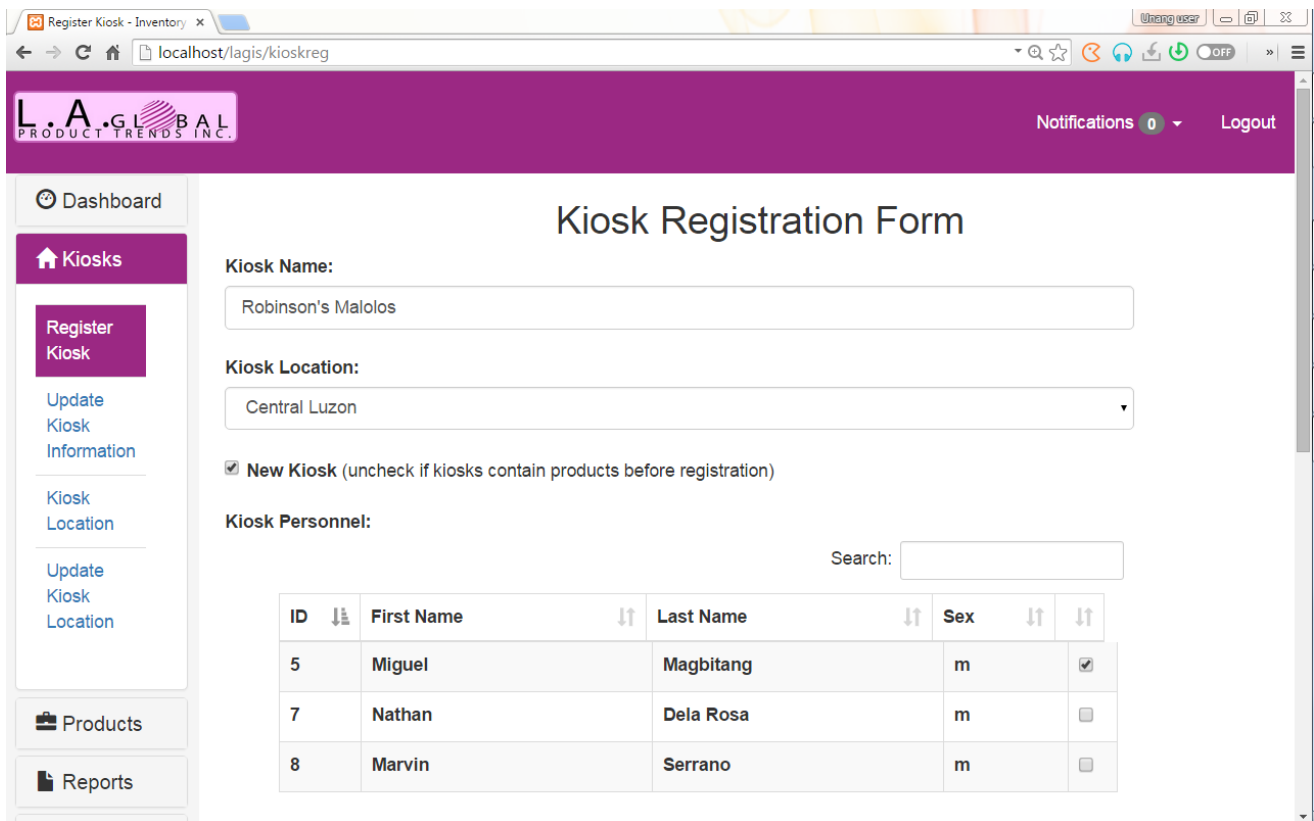


Figure 24: Kiosk Registration/Update Kiosk Information - LA Global Inventory System

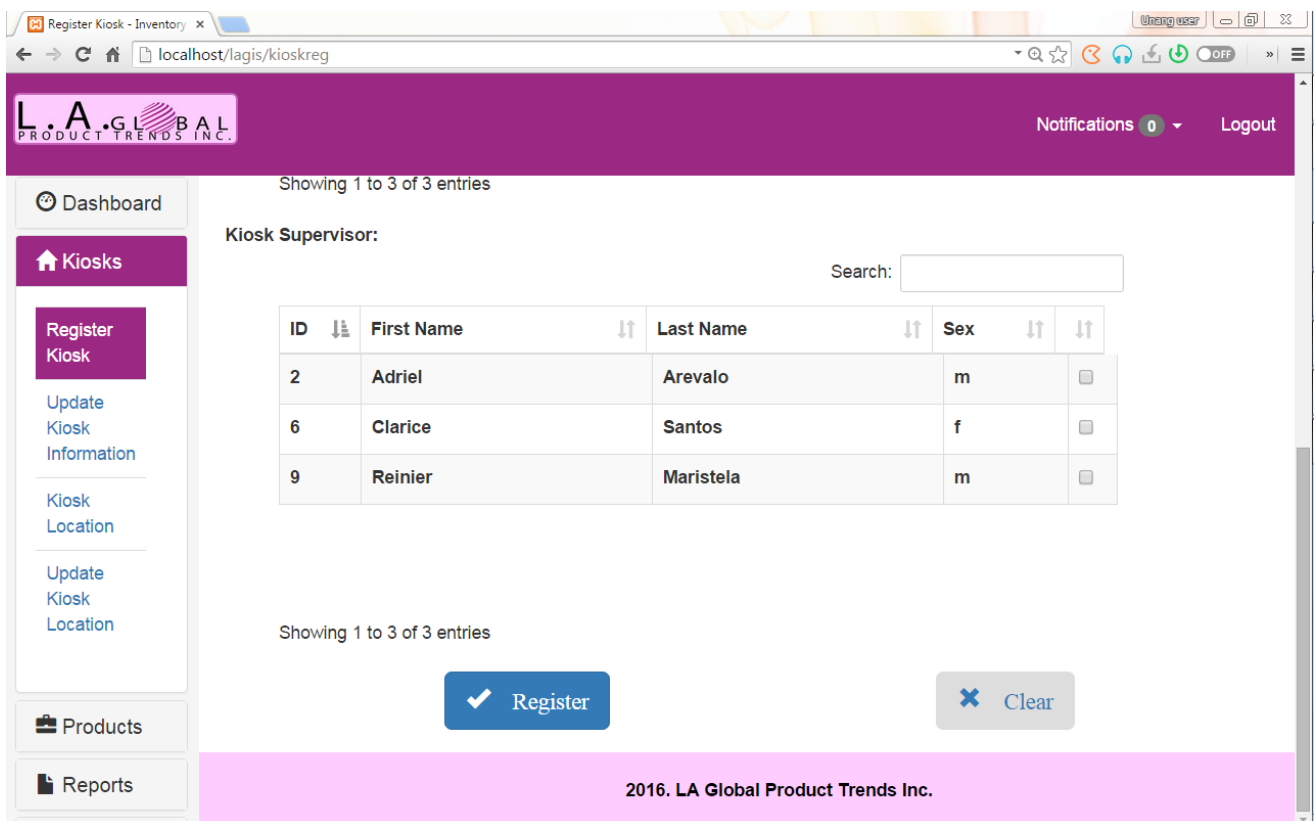


Figure 25: Kiosk Registration/Update Kiosk Information - LA Global Inventory System

The CEO can also create or update a Region grouping by clicking on the Kiosk Location or the Update Kiosk Location as seen in Figure 26

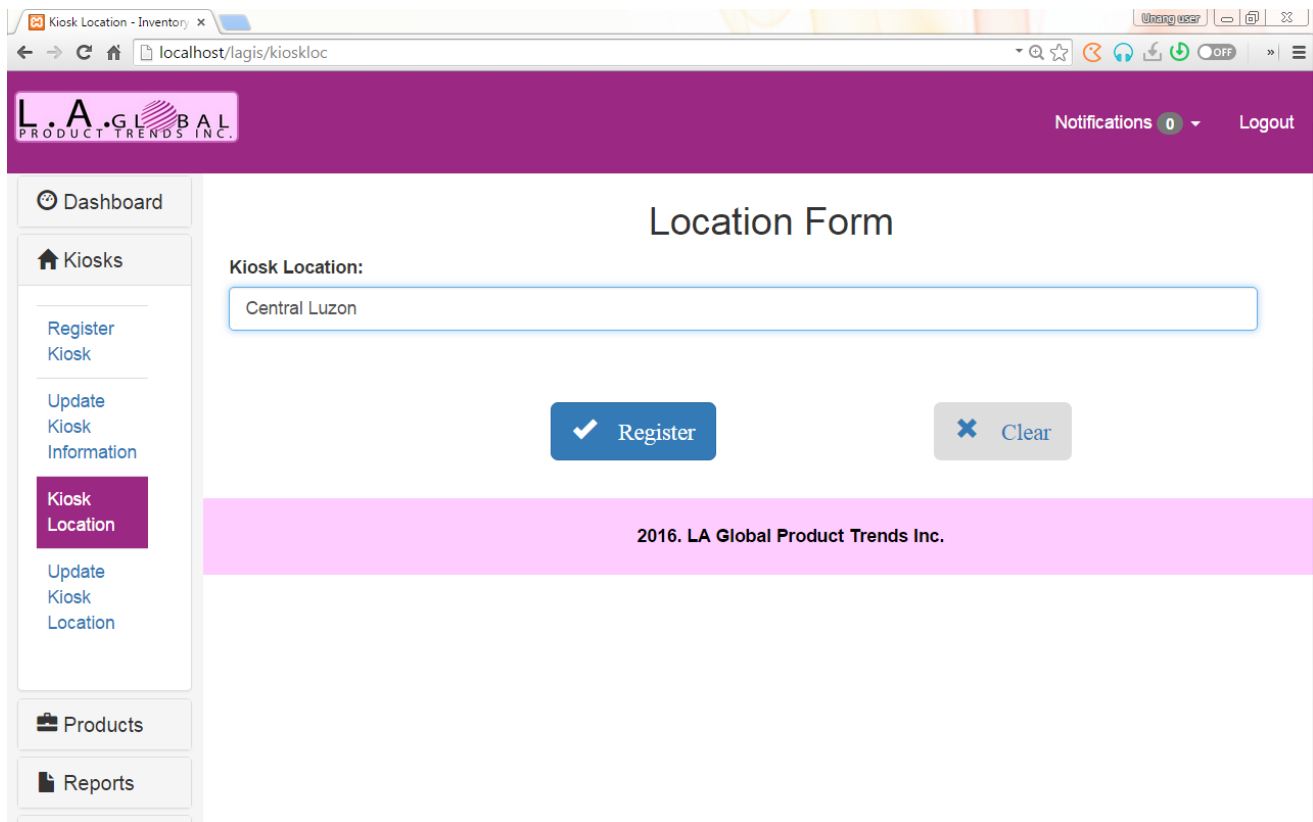


Figure 26: Kiosk Location/Update Kiosk Location - LA Global Inventory System

The CEO can also create or update a product. The CEO can do this by clicking on the Product button on the Sidebar Menu and, then, clicking on the Register Product or Update Product Information link. The CEO will be redirected to the Product Registration Form as seen in Figure 27. Similar to the Kiosk Registration and Update Kiosk Information pages, the Register Product and Update Product Information are similar in appearance as well. For the Register Product Page, the CEO can set the Product Name, Variant, and Suggested Retail Price. The user can also set the product code if the product has been given a code prior to the installation of the system. The same is true for the Update Kiosk Information except that the user can no longer replace the code that has been given to the product. Aside from the CEO, the Warehouse Personnel can also access these pages.

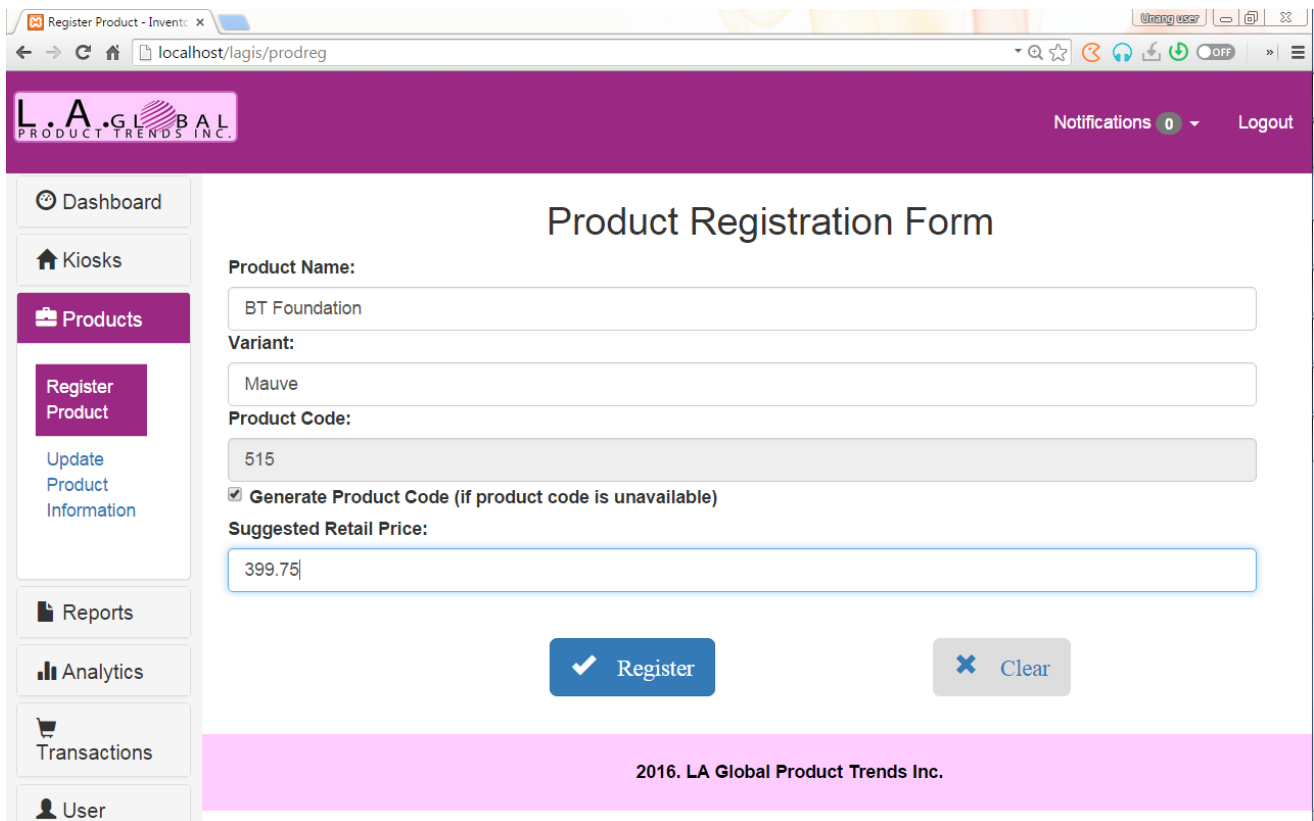


Figure 27: Product Registration/Update Product Information - LA Global Inventory System

When the CEO clicks on the Report button on the Sidebar Menu, the CEO can choose from 4 different types of reports: Kiosk Report, Product Report, Region Report and the Sales Progress Report. The Kiosk Report, Product Report and Region Report are all similar in appearance. The three types of reports, initially, displays a Report Filter panel wherein the user can select from the available report headers as seen in Figure 28. If the user does not want to see the header in the reports, the user can uncheck the checkbox corresponding to the header. The user can also select specific kiosks, products or regions that will be included in the report by checking the checkbox corresponding to it as seen in Figure 28. The user can also set at time frame for the information that will be displayed on the reports. Once the user is finished in customizing the report, s/he can click on submit to display the reports in chart form as seen in Figures 26-29. The Sales Supervisor can also generate Kiosk Reports for those kiosks assigned to him/her.

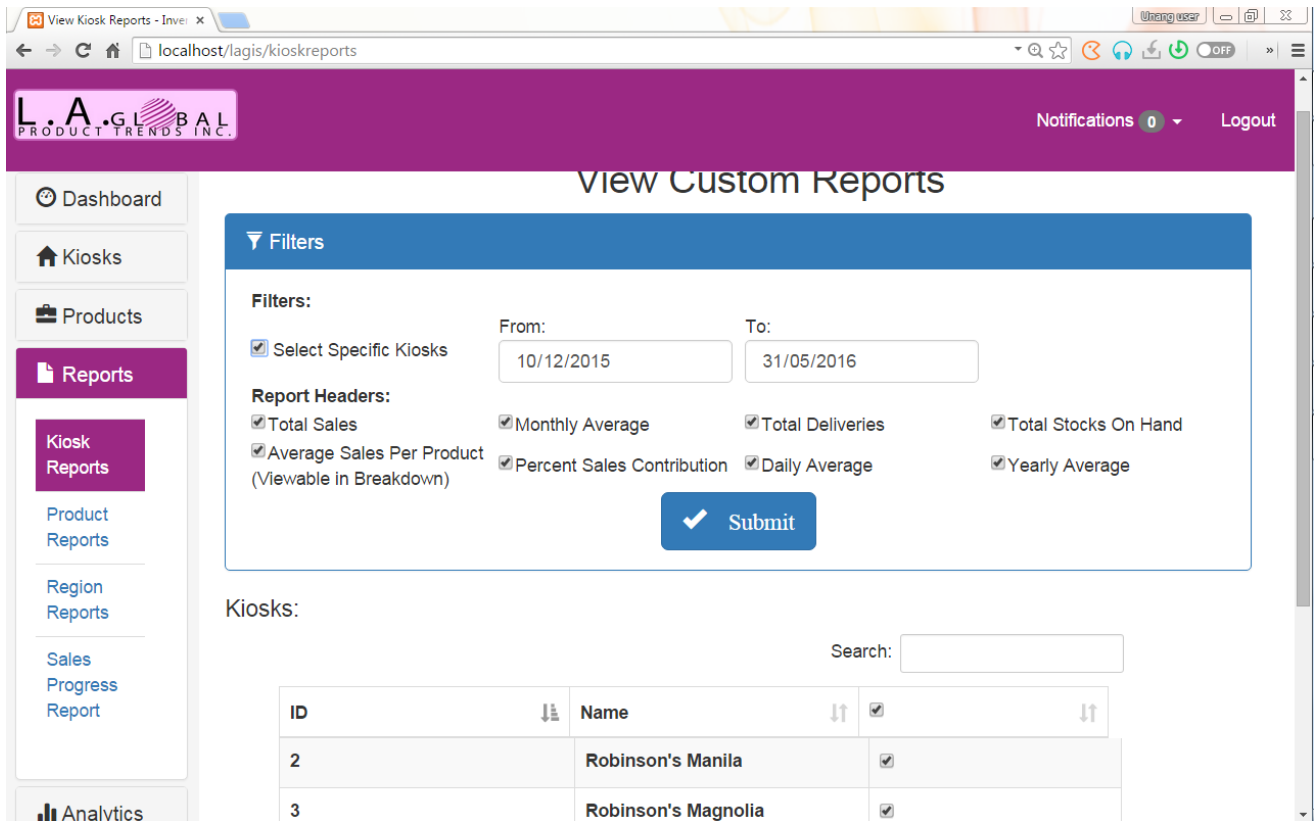


Figure 28: Reports - LA Global Inventory System

Figure 29 shows the total sales and averages for the kiosk, product or region. All charts can be downloaded in PNG format by clicking on the Menu button on the top right part of the chart and, then, clicking “Download PNG Image”.

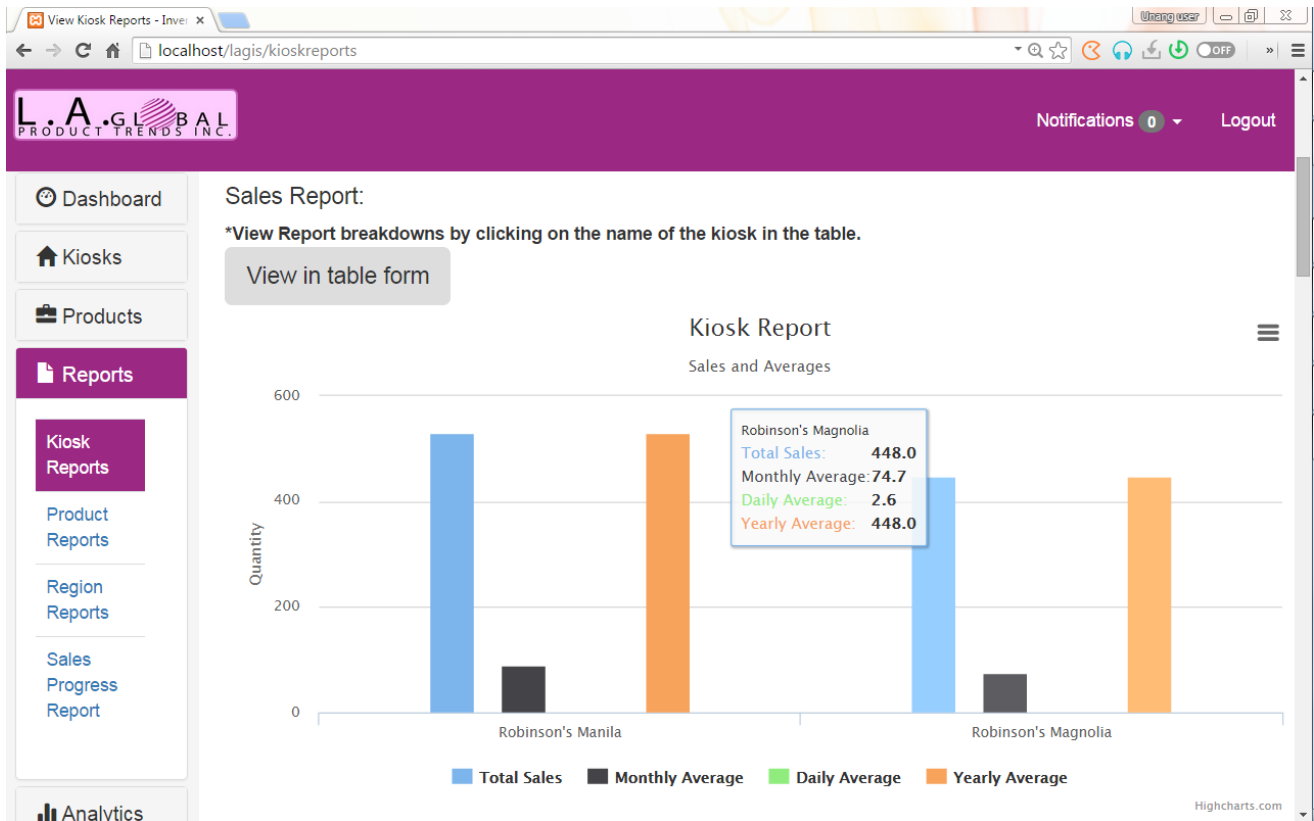


Figure 29: Reports - LA Global Inventory System

Figure 30 shows the contribution of the kiosk, product, or region to the total sales. Figure 31 shows the total deliveries and stock-on-hand of the kiosk, product, or region. Figure 32 shows the monthly progression of the sales of the kiosk, product, or region. Figure 33 shows the yearly progression of the sales of the kiosk, product, or region.

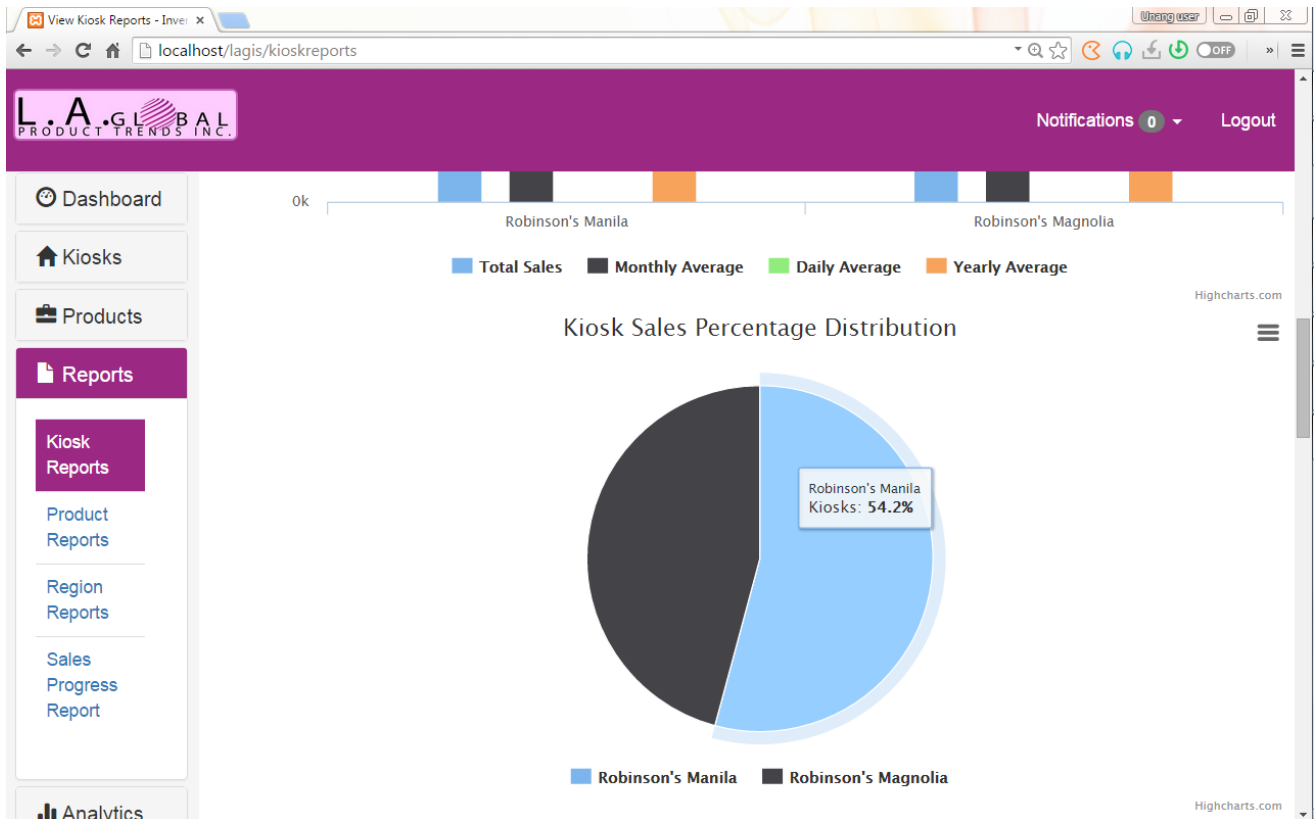


Figure 30: Reports - LA Global Inventory System

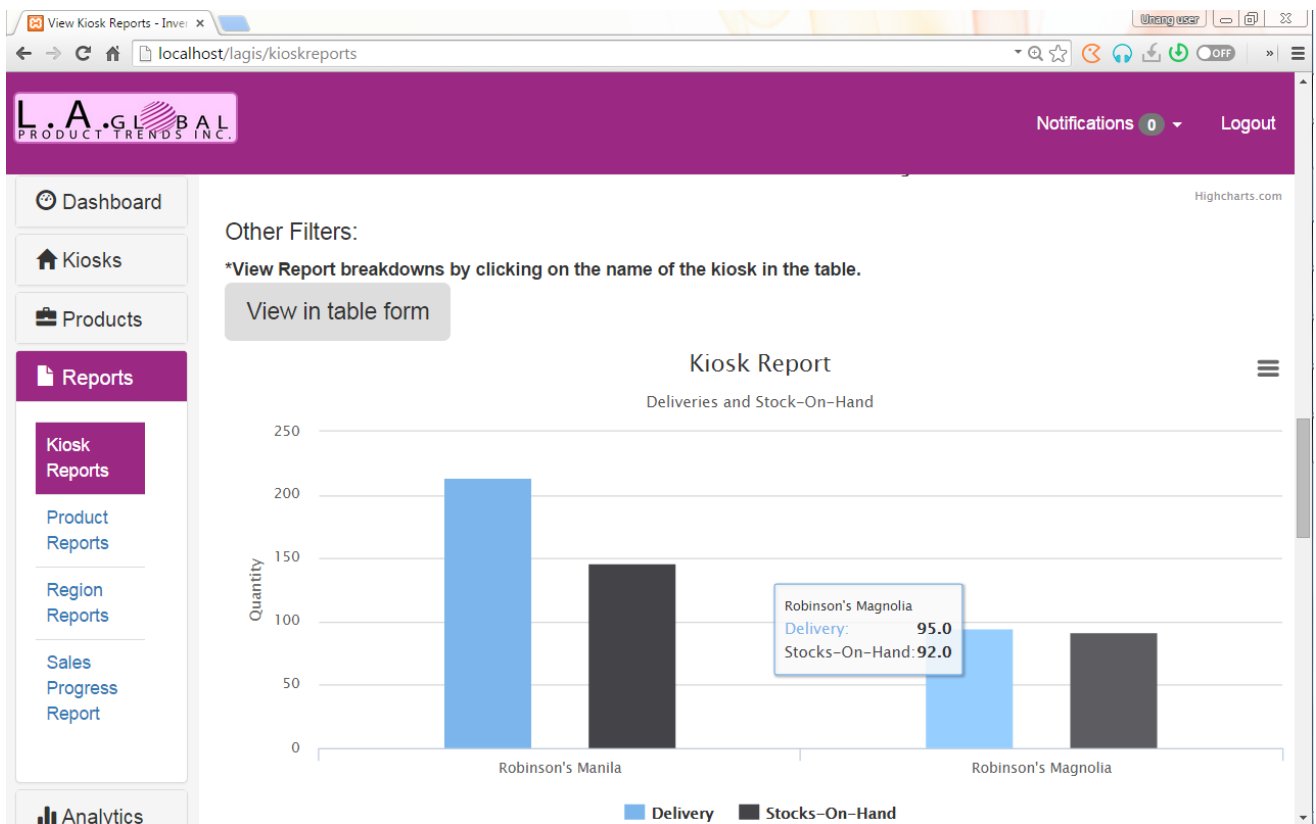


Figure 31: Reports - LA Global Inventory System

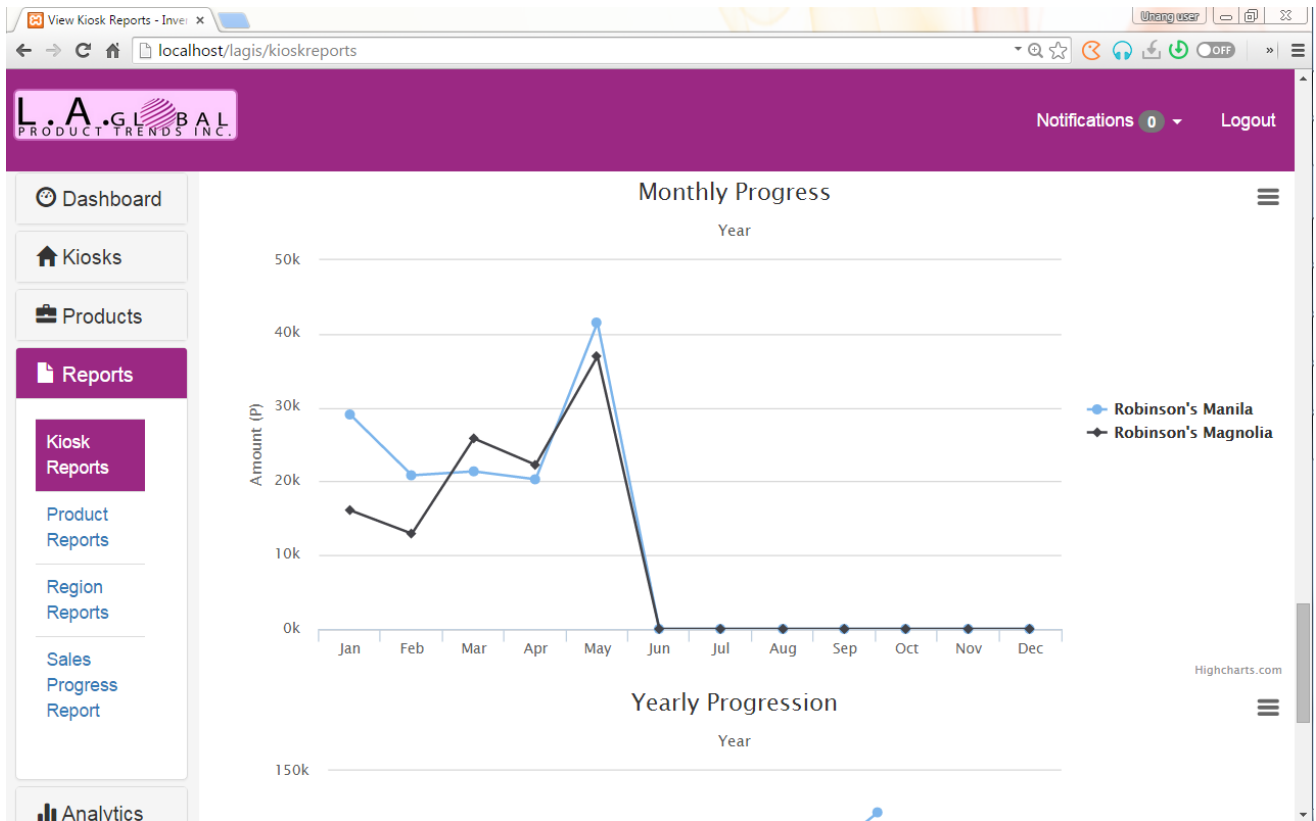


Figure 32: Reports - LA Global Inventory System

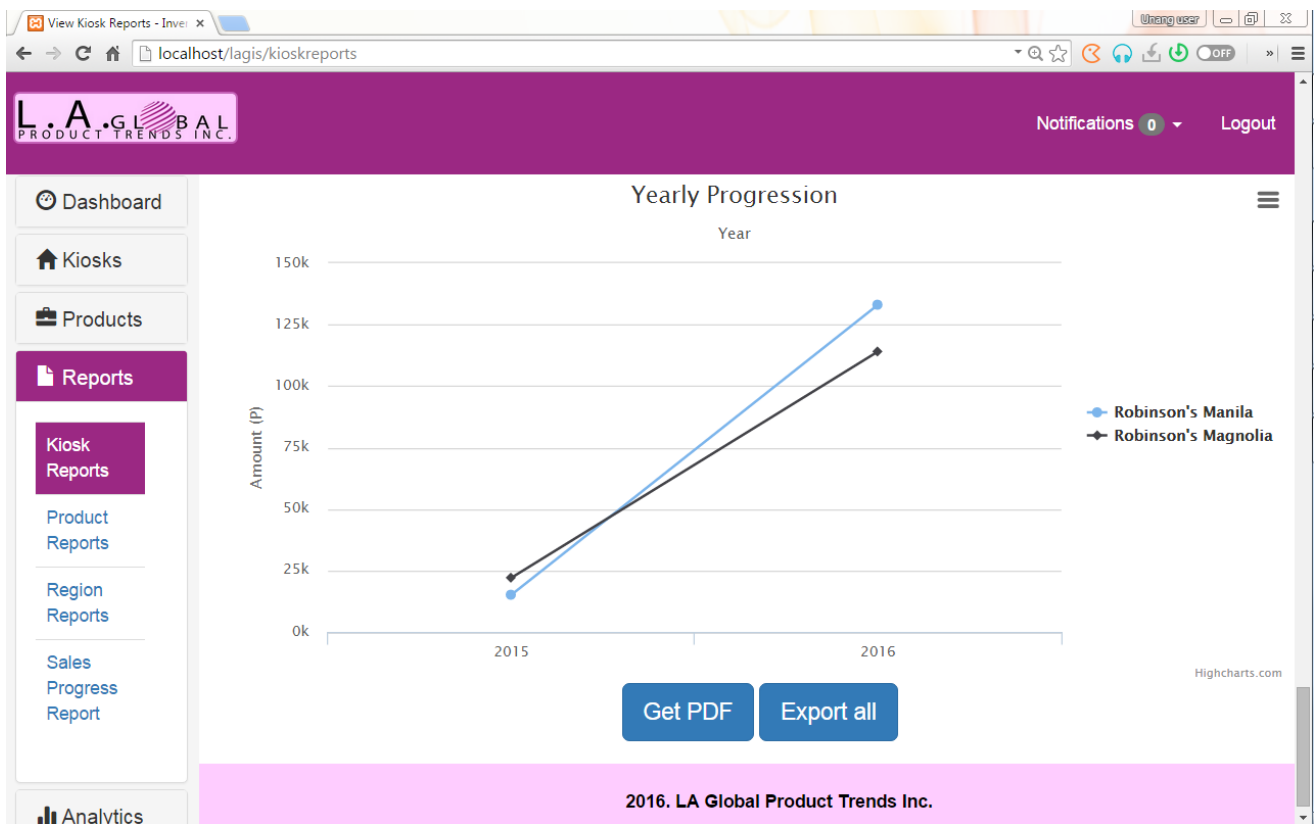


Figure 33: Reports - LA Global Inventory System

Figure 34 shows the reports in table form. The user can view the reports in table form by clicking on the "View in table form" button on top of the chart.

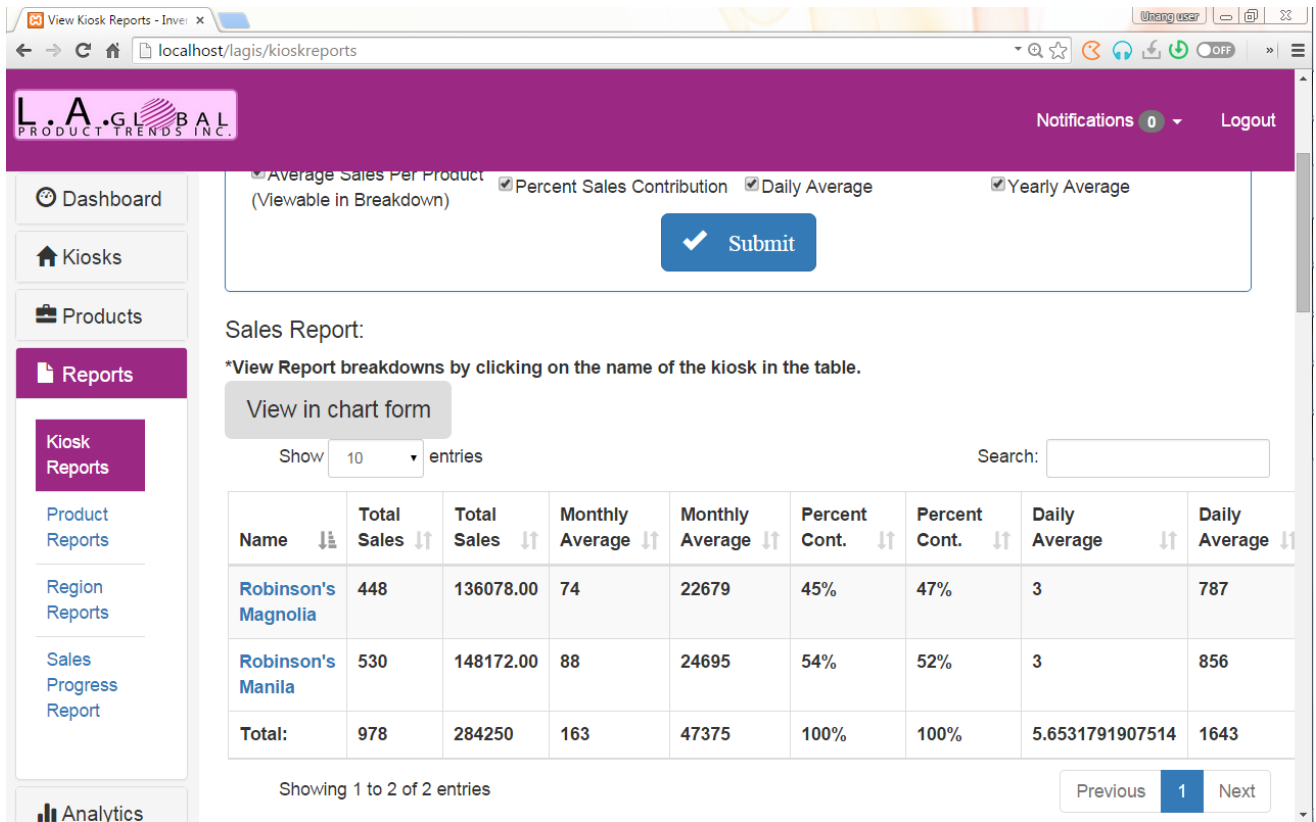


Figure 34: Reports - LA Global Inventory System

The user can also view the breakdown for the specific kiosk or region by clicking on the kiosk's name or the region's name in the table form of the report. This is shown Figure 35.

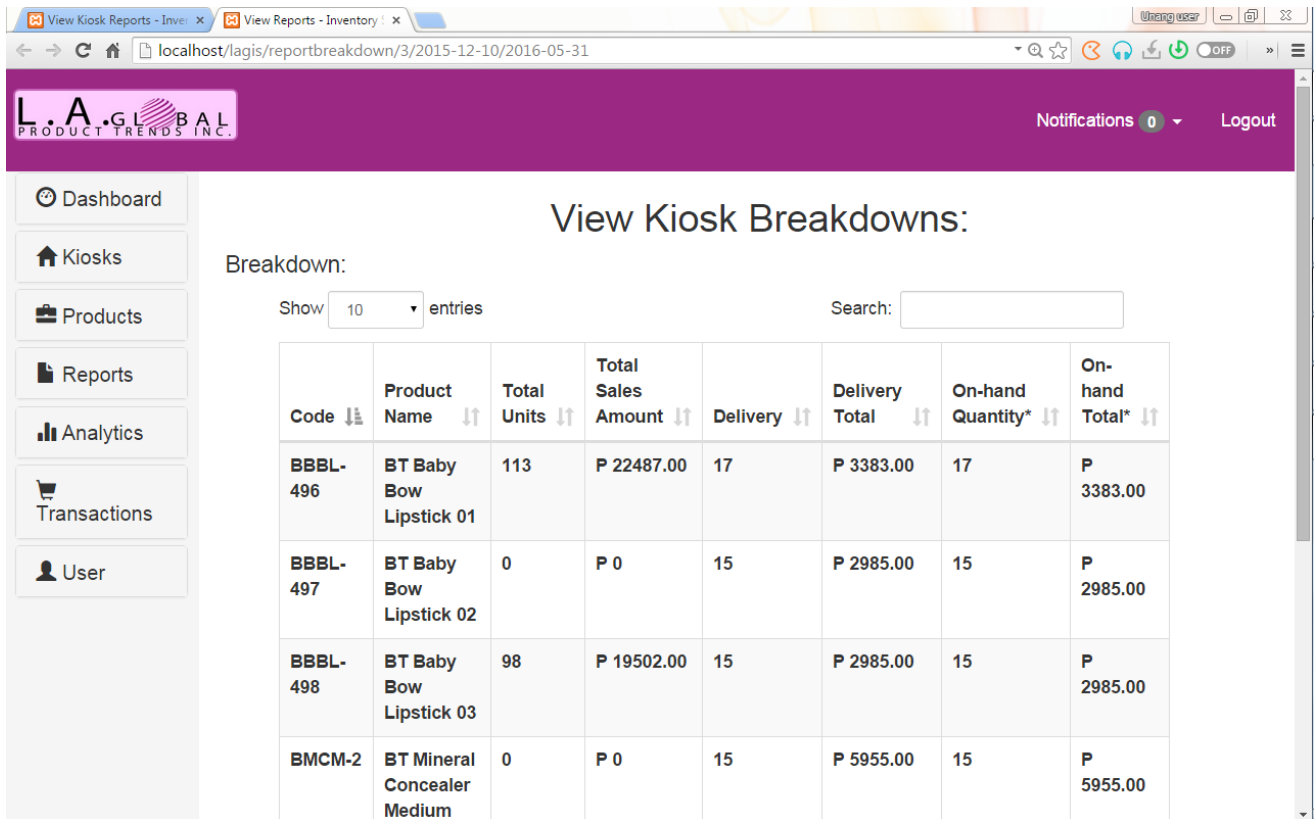


Figure 35: Reports - LA Global Inventory System

The last type of report, the Sales Progress Report, shows the monthly and yearly progression of the total sales of the company. Unlike the previous three types, the Sales Progress Report does not need report filters. It is automatically displayed once the user clicks on the Sales Progress Report link in the Sidebar Menu. The Sales Progress Report Page is shown in Figures 36-37.

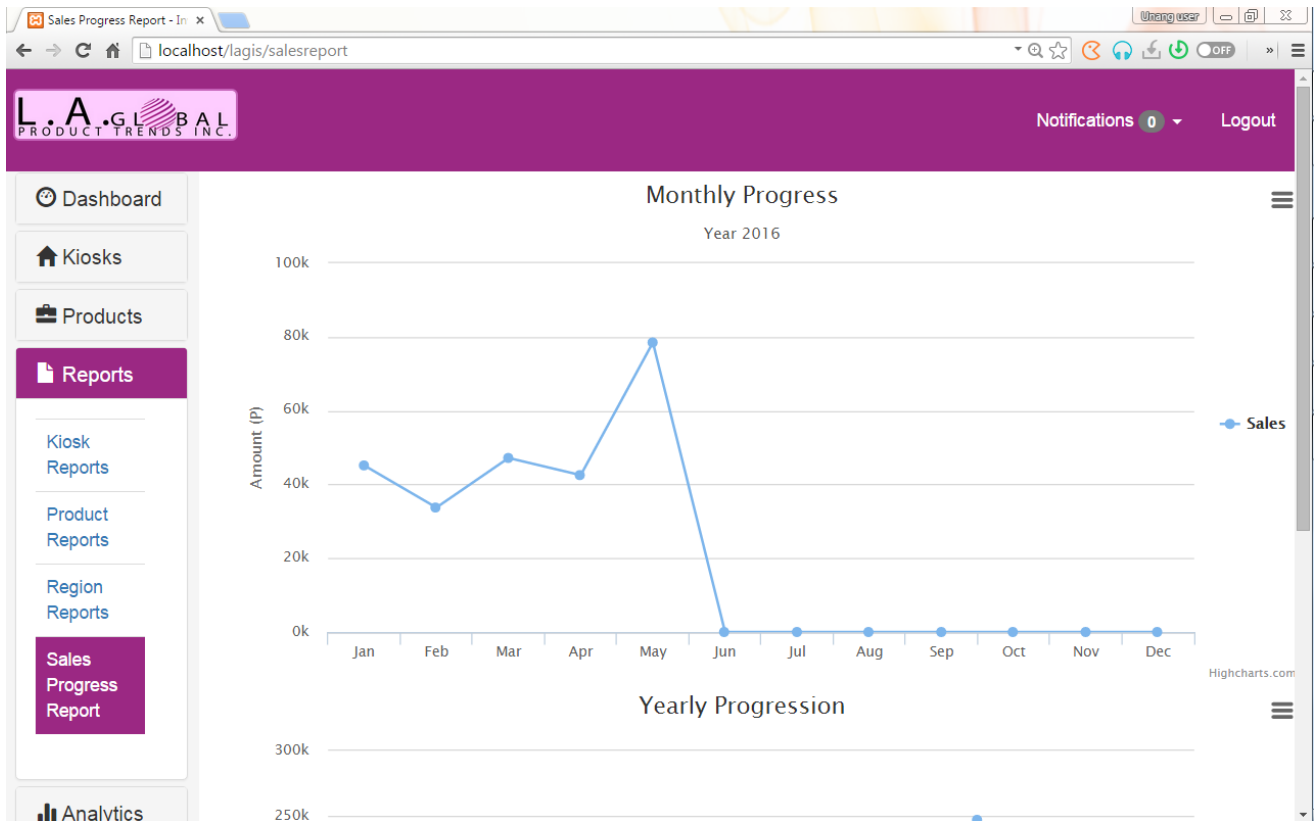


Figure 36: Sales Progress Report - LA Global Inventory System

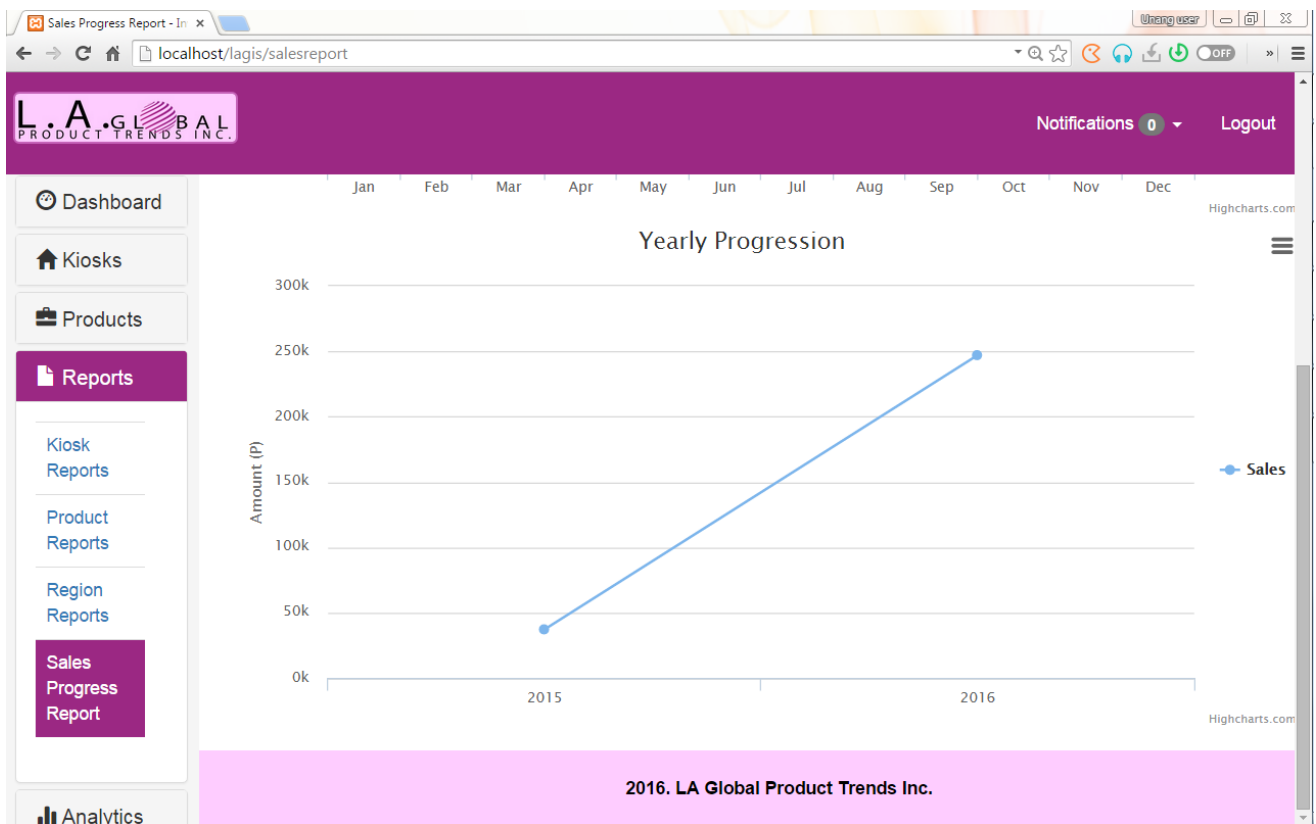


Figure 37: Sales Progress Report - LA Global Inventory System

The CEO can also use predictive analytics by clicking on the Analytics button on the Sidebar Menu and then choosing from the three types of Analytics. These three types are: Kiosk Analytics, Product Analytics and Total Sales Analytics. If the user clicks on the Kiosk or the Product Analytics link, s/he will be redirected to the Kiosk or Products Analytics page as shown in Figure 38. The user will be required to choose from a list of kiosks and products. Once the user has chosen a kiosk or a product, s/he can click on the “Submit” button to view the six month sales prediction for the kiosk or product.

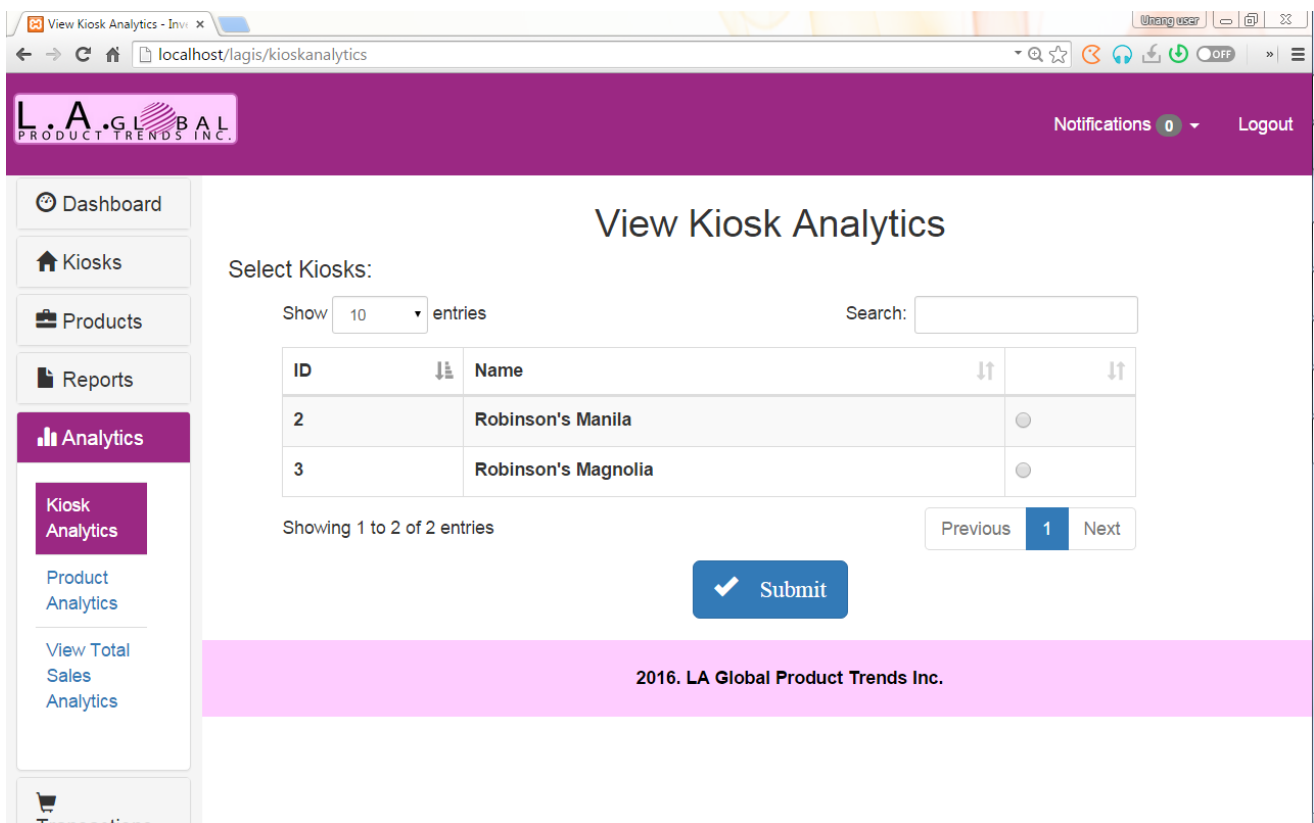


Figure 38: Analytics - LA Global Inventory System

The total sales for the past six months and the predicted total sales for the next six months are shown in Figures 39-40. The analytics module uses Exponential Smoothing to generate the prediction for the next six months using the total sales of each product from the previous six months. In order to get the total sales prediction for the kiosk, the total sales for each product sold in the kiosk is exponentially smoothed as seen in the second chart. The sum of the exponentially smoothed product sales for each time period is used as the total sales prediction for the kiosk during that time period. For the Total Sales Analytics, the combined total sales of all kiosks and the combined predicted total sales of all kiosks are shown.

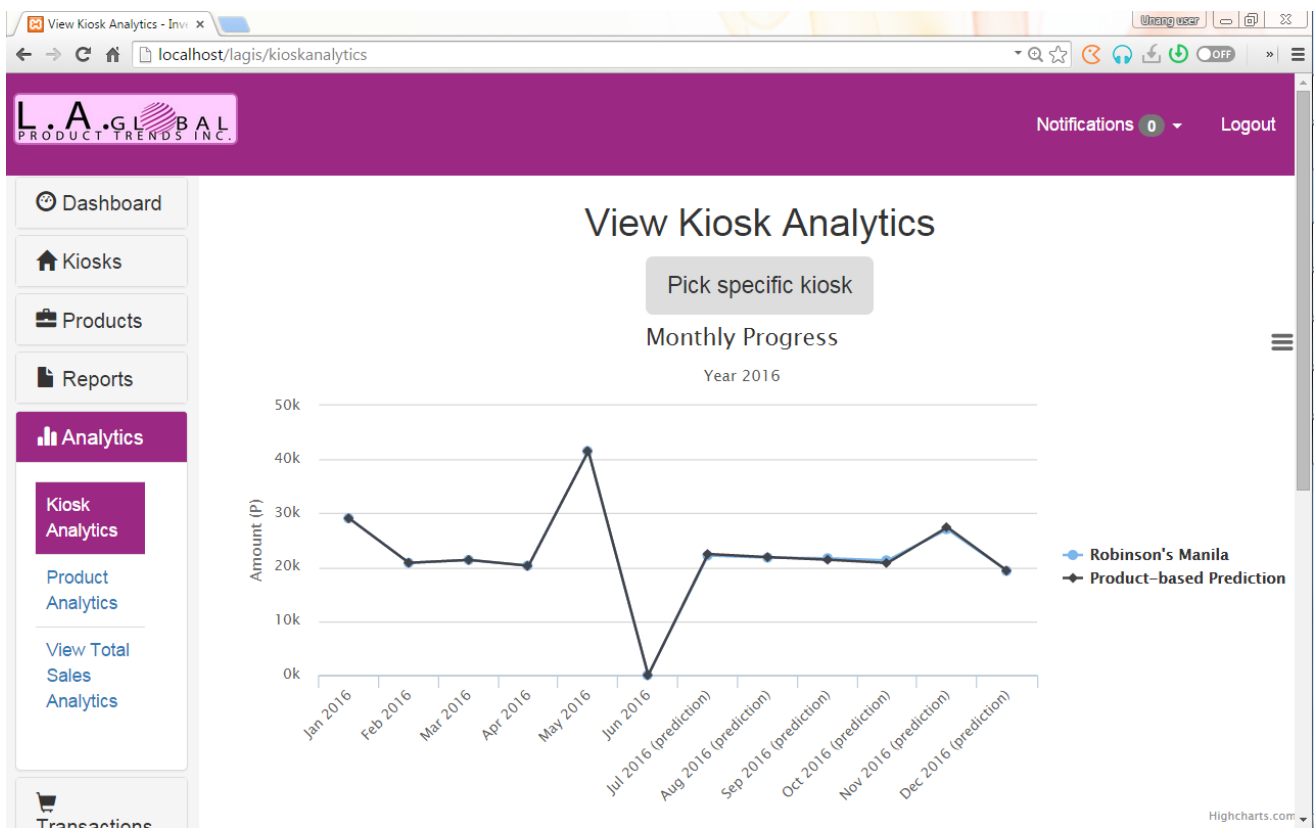


Figure 39: Analytics - LA Global Inventory System

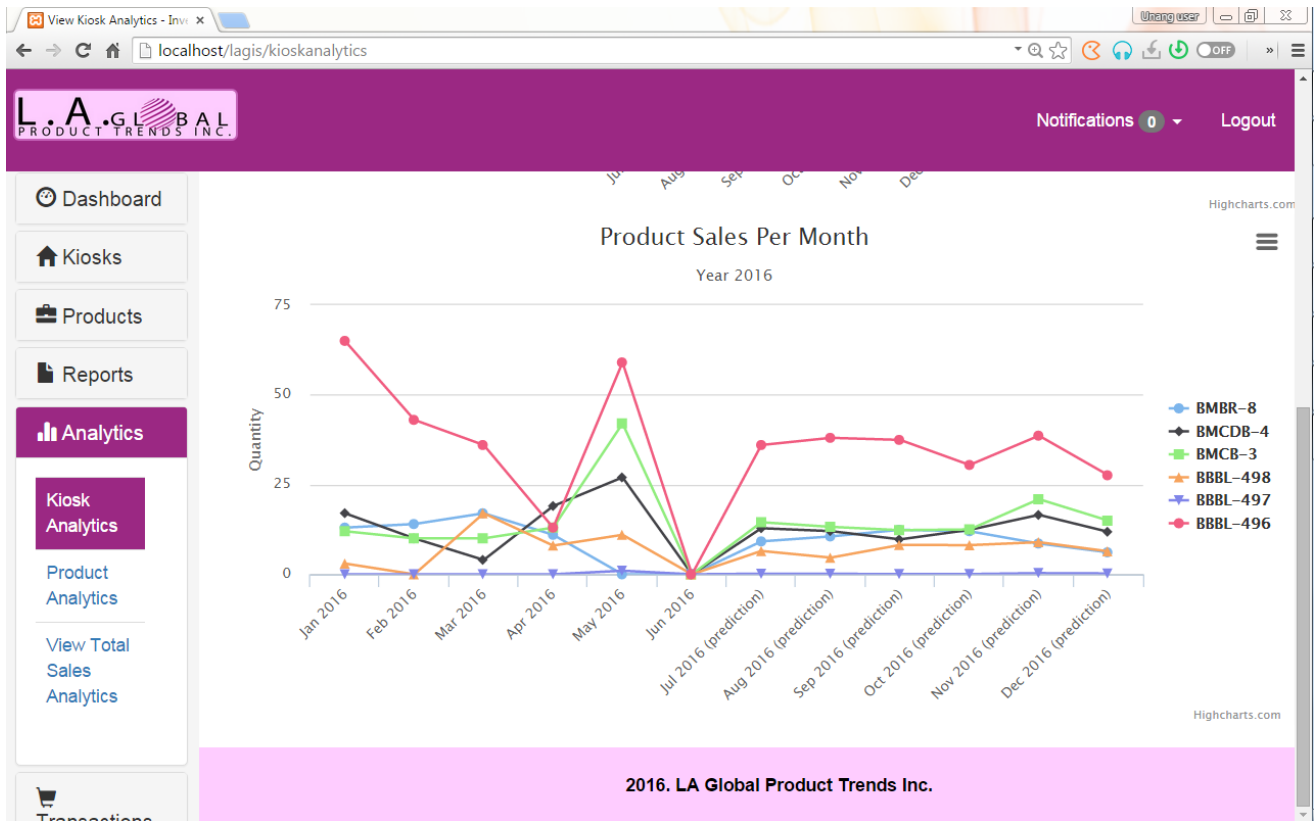


Figure 40: Analytics - LA Global Inventory System

The Product Analytics page, on the other hand, shows the total sales for the product during the previous six months and the total predicted sales of the product for the next six months as shown in Figure 41.

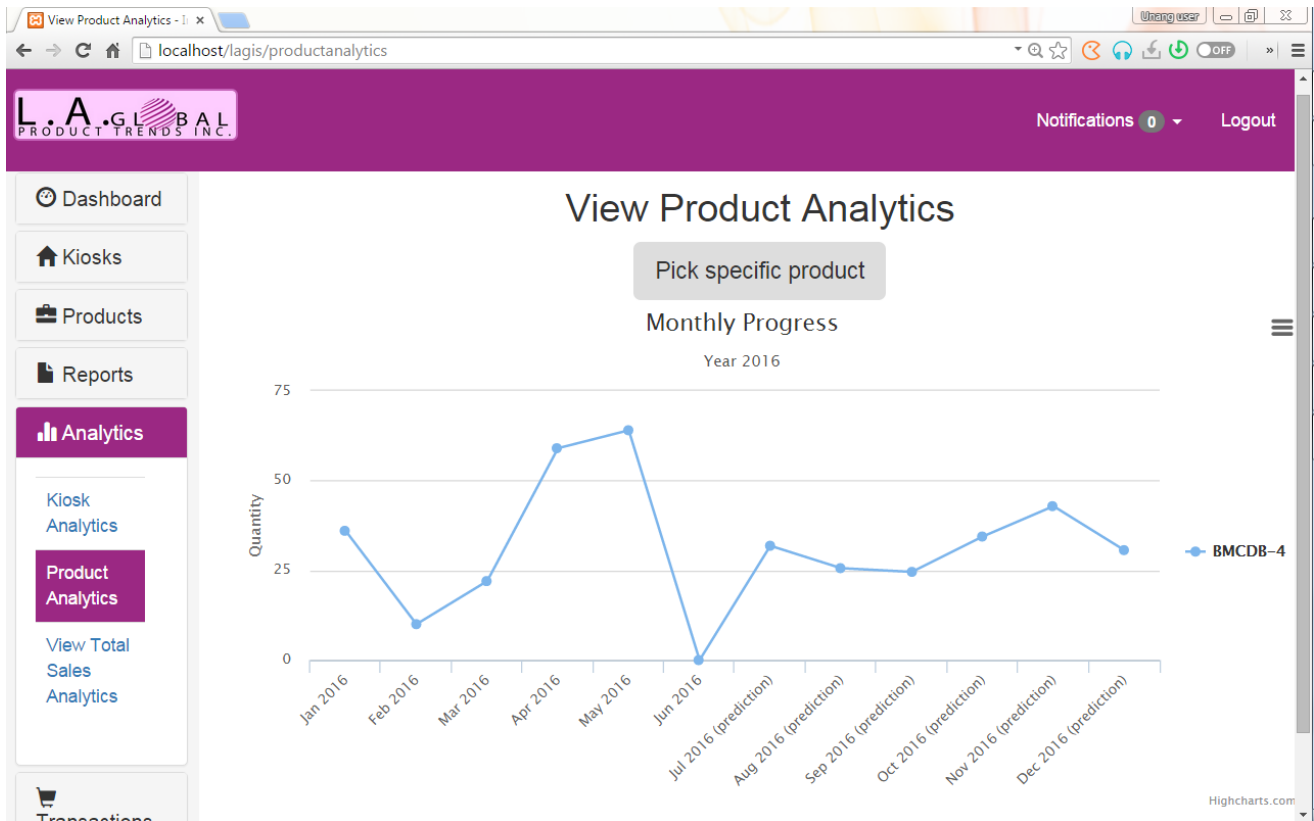


Figure 41: Analytics - LA Global Inventory System

The CEO is also given the ability to trace transactions by clicking on the Transactions button and, then, clicking on the Trace Transactions link. The user will, then, be redirected to the Trace Transactions page as seen in Figure 42. The Trace Transactions page shows a list of deliveries, pullouts, and condemned items. Included in the list are the transaction details, the product details, the quantity of products involved in the transaction, the date and time the transaction was submitted, and the comment justifying the transaction.

The screenshot shows a web application interface for 'Trace Transaction' in the LA Global Inventory System. The page features a sidebar with navigation options: Dashboard, Kiosks, Products, Reports, Analytics, Transactions (highlighted), Trace Transactions, and User. The main content area displays a table of transactions with the following data:

Transaction Type	Recipient of Transaction	Product Code	Product Name	Quantity Involved	Date and Time of Transaction	Comment
Damaged	Robinson's Manila	BBBL-497	BT Baby Bow Lipstick 02	1	2016-05-26 17:03:05	Nahulog ko po.
Damaged	Warehouse	BBBL-496	BT Baby Bow Lipstick 01	1	2016-05-29 21:59:24	nabagsak po
Delivery	Warehouse	BMCN-5	BT Mineral Concealer Natural	250	2016-05-11 10:13:55	
Delivery	Robinson's Manila	BMCN-5	BT Mineral Concealer Natural	15	2016-05-11 10:15:37	
Delivery	Warehouse	BMCM-2	BT Mineral	250	2016-05-11	

Figure 42: Trace Transaction - LA Global Inventory System

The types of notifications received by the CEO are delivery and pullout notifications. Before such transactions take place, the CEO should confirm the transaction first. The delivery notification, as shown in Figures 43-44, contains the Details Panel which includes the notification sender, the timestamp of when the notification was sent, the kiosk requiring the delivery, and the Estimated Date of Arrival. Underneath the Details Panel, the list of products that are to be delivered are shown. The CEO can accept specific product deliveries by checking the checkbox underneath the Accept Delivery column corresponding to the product. Otherwise, the product delivery will be rejected. A comment box is also provided for the CEO to give instructions to the warehouse personnel. Lastly, the CEO can also respond to the pullout notifications in the same way as in Delivery notifications. The Pullout Notification is shown in Figures 45-46.

Notification - Inventory S | Wang user | Notifications 0 | Logout

Notification

Details

Sent by: Chester Francisco Sent on: 2016-05-27 06:51:08 Delivered to: Robinson's Manila Estimated Date of Arrival: 2016-05-27

Search:

Code	Name	Quantity Requested	Amount	Current Kiosk Quantity Threshold	Current Kiosk Quantity Remaining	Accept Delivery
BBBL-496	BT Baby Bow Lipstick 01	10	1990.00	11	11	<input type="checkbox"/>
BBBL-497	BT Baby Bow Lipstick	10	1990.00	12	21	<input type="checkbox"/>

Figure 43: Delivery Notification - LA Global Inventory System

Notification - Inventory S | Wang user | Notifications 0 | Logout

Code	Name	Quantity Requested	Amount	Current Kiosk Quantity Threshold	Current Kiosk Quantity Remaining	Accept Delivery
BBBL-496	BT Baby Bow Lipstick 01	10	1990.00	11	11	<input type="checkbox"/>
BBBL-497	BT Baby Bow Lipstick 02	10	1990.00	12	21	<input type="checkbox"/>

Showing 1 to 5 of 5 entries

Comment:

✓ Submit

Figure 44: Delivery Notification - LA Global Inventory System

Notification - Inventory S | Wang user | Notifications 0 | Logout

Notification

Details

Sent by: Adriel Arevalo Sent on: 2016-06-02 00:18:52 Pullout Stocks from: Robinson's Manila

Search:

Code	Name	Quantity Requested	Amount	Current Kiosk Quantity Threshold	Current Kiosk Quantity Remaining	Accept Pullout
BBBL-496	BT Baby Bow Lipstick 01	5	995.00	11	11	<input type="checkbox"/>
BBBL-497	BT Baby Bow Lipstick 02	5	995.00	12	21	<input type="checkbox"/>

Figure 45: Pullout Notification - LA Global Inventory System

Notification - Inventory S | Wang user | Notifications 0 | Logout

Code	Name	Quantity Requested	Amount	Current Kiosk Quantity Threshold	Current Kiosk Quantity Remaining	Accept Pullout
BBBL-497	BT Baby Bow Lipstick 02	5	995.00	12	21	<input type="checkbox"/>
BBBL-498	BT Baby Bow Lipstick 03	5	995.00	5	19	<input type="checkbox"/>
BBBL-499	BT Baby Bow Lipstick 04	5	995.00	12	12	<input type="checkbox"/>

Showing 1 to 3 of 3 entries

Comment:

Submit

Figure 46: Pullout Notification - LA Global Inventory System

The next type of user is the Sales Supervisor. The Sales Supervisor can set the Threshold for each product in the kiosk assigned to him/her. S/he can do this by clicking on the Kiosks button on the Sidebar Menu and then clicking the Set Product Threshold link. The Set Product Threshold page is shown in Figure 47. The Sales Supervisor can set the Threshold by adjusting to spinner input to the desired number of units left in the kiosk before the system sends a low stock notification. Once the Sales Supervisor is finished, s/he can click on the “Update” button to save the changes. The Warehouse Personnel can also set the threshold for the products in the Warehouse.

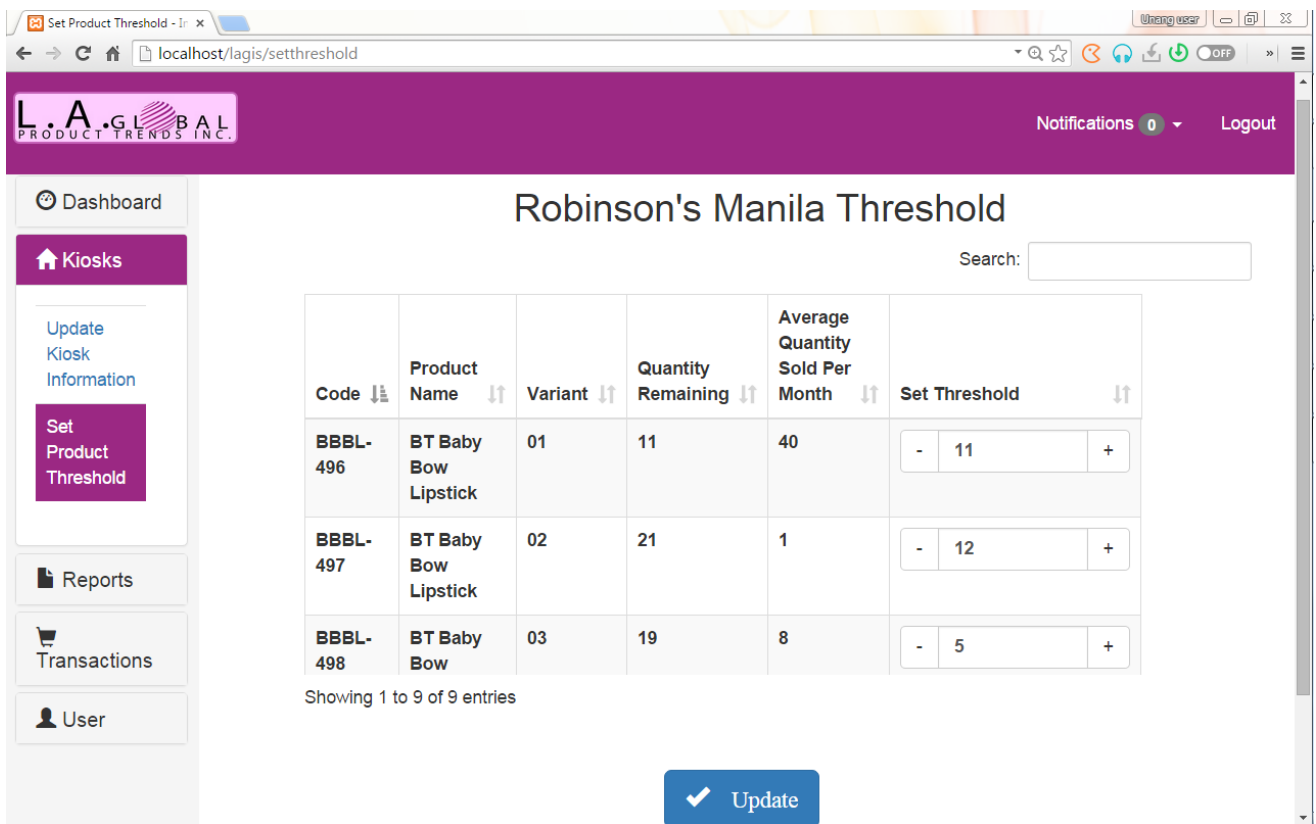


Figure 47: Set Threshold - LA Global Inventory System

The Sales Supervisor can also request for pullouts when the products do not sell well. The user can perform the said function by clicking on the Transactions button and, then, clicking the Pullout Stocks Link. The Pullout Stocks page is shown in Figure 48. The user can send a pullout notification to the CEO by adjusting the spinner input to the desired number of stocks to be pulled out and then clicking “Submit” to save the changes.

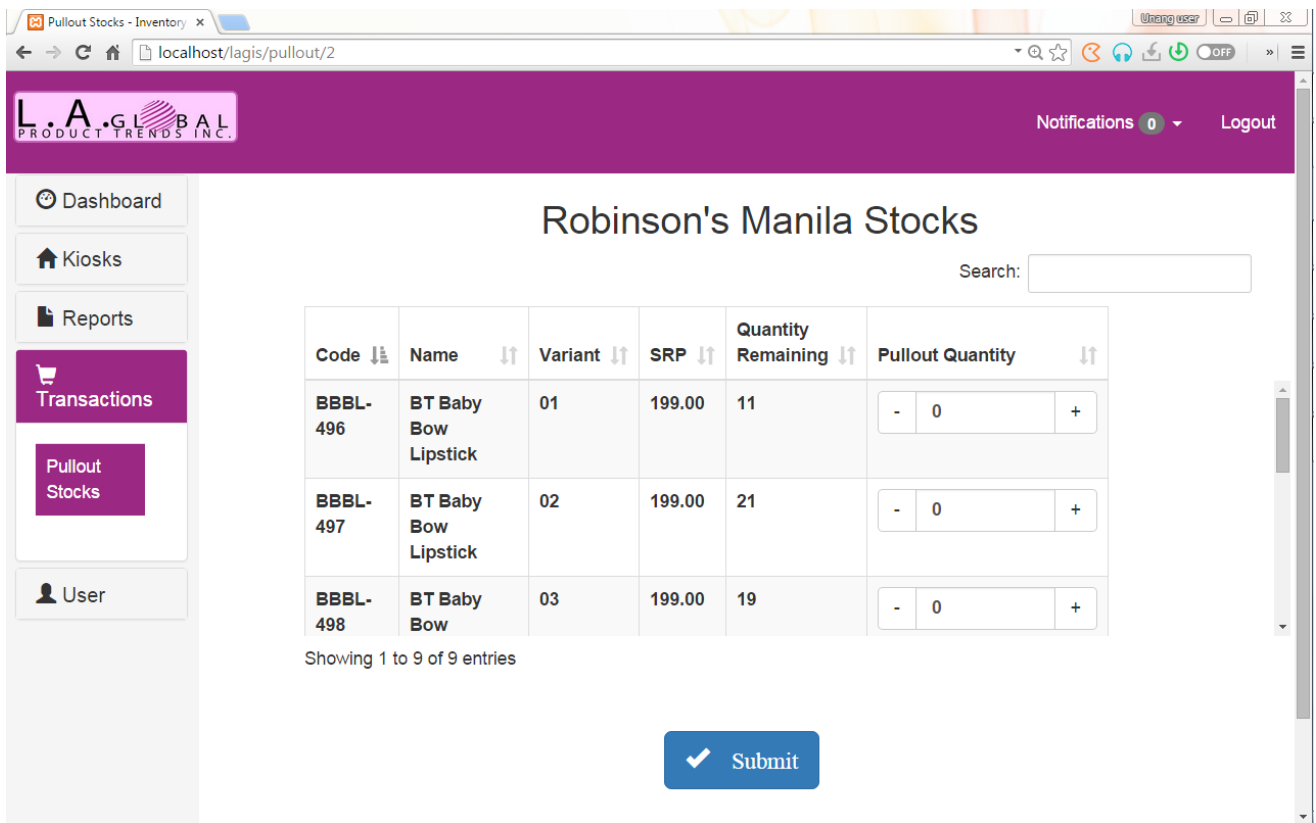


Figure 48: Pullout Stocks - LA Global Inventory System

The next type of user is the Warehouse Personnel. The Warehouse Personnel can update the number of stocks in the warehouse whenever a shipment arrives. The user can do this by clicking on the Transactions button and, then, clicking Update Warehouse Stocks. The Update Warehouse Stocks page is shown in Figure 49. The user can update the quantity of each of the warehouse stocks by adjusting the spinner input to the number of stocks received by the warehouse. Once the Warehouse Personnel is finished, s/he can click “Submit” to save the changes.

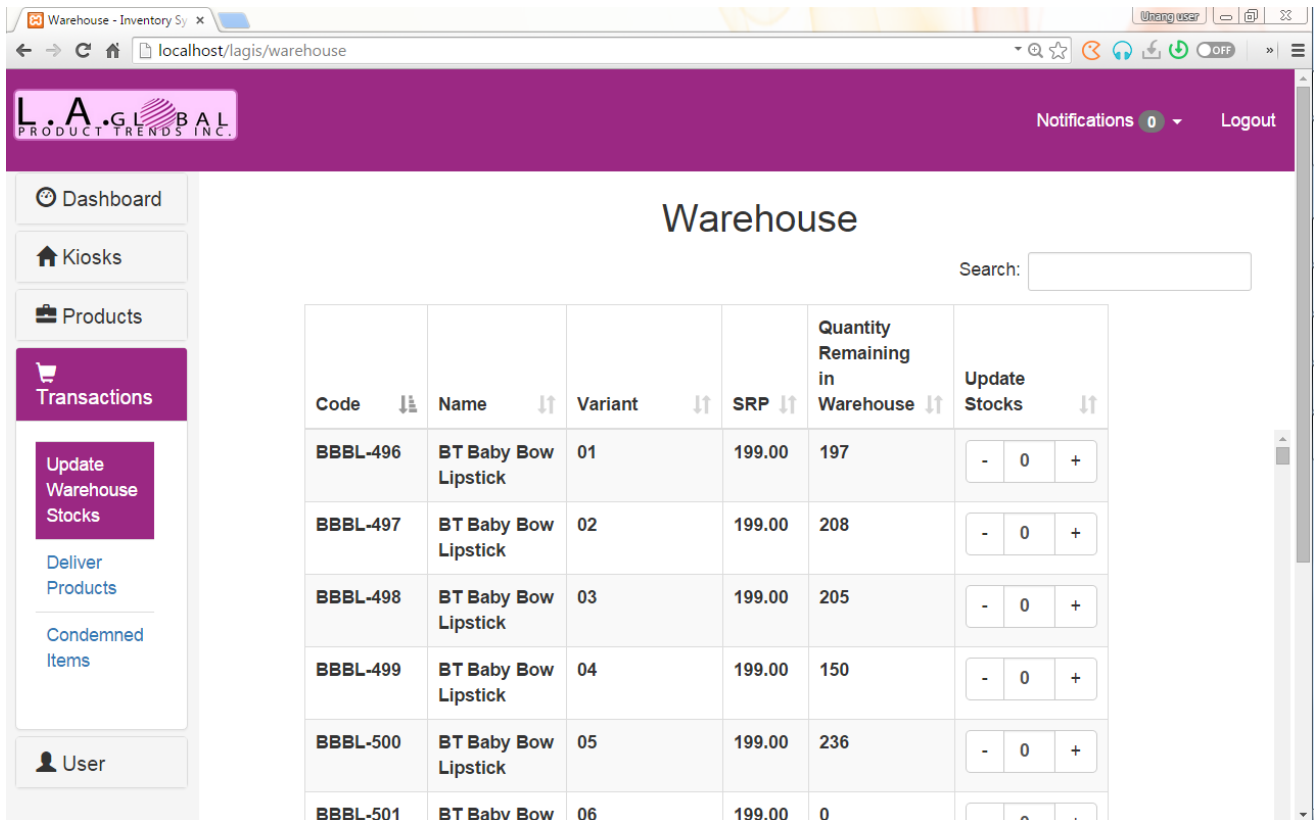


Figure 49: Update Warehouse Stocks - LA Global Inventory System

The Warehouse Personnel can also make deliveries by clicking on the Transactions button and, then, clicking on the Deliver Products link. The user will be redirected to a page containing a list of kiosks. S/he can choose from that list by clicking on the Deliver button corresponding to the kiosk. S/he will, then, be redirected to the Delivery page as shown in Figure 50. The Warehouse Personnel can send a delivery notification by adjusting the spinner to the desired number of stocks to be delivered. The Warehouse Personnel can also set an Estimated Arrival Date for the delivery. Once the Warehouse Personnel has clicked the “Submit” button, the CEO will receive a delivery notification.

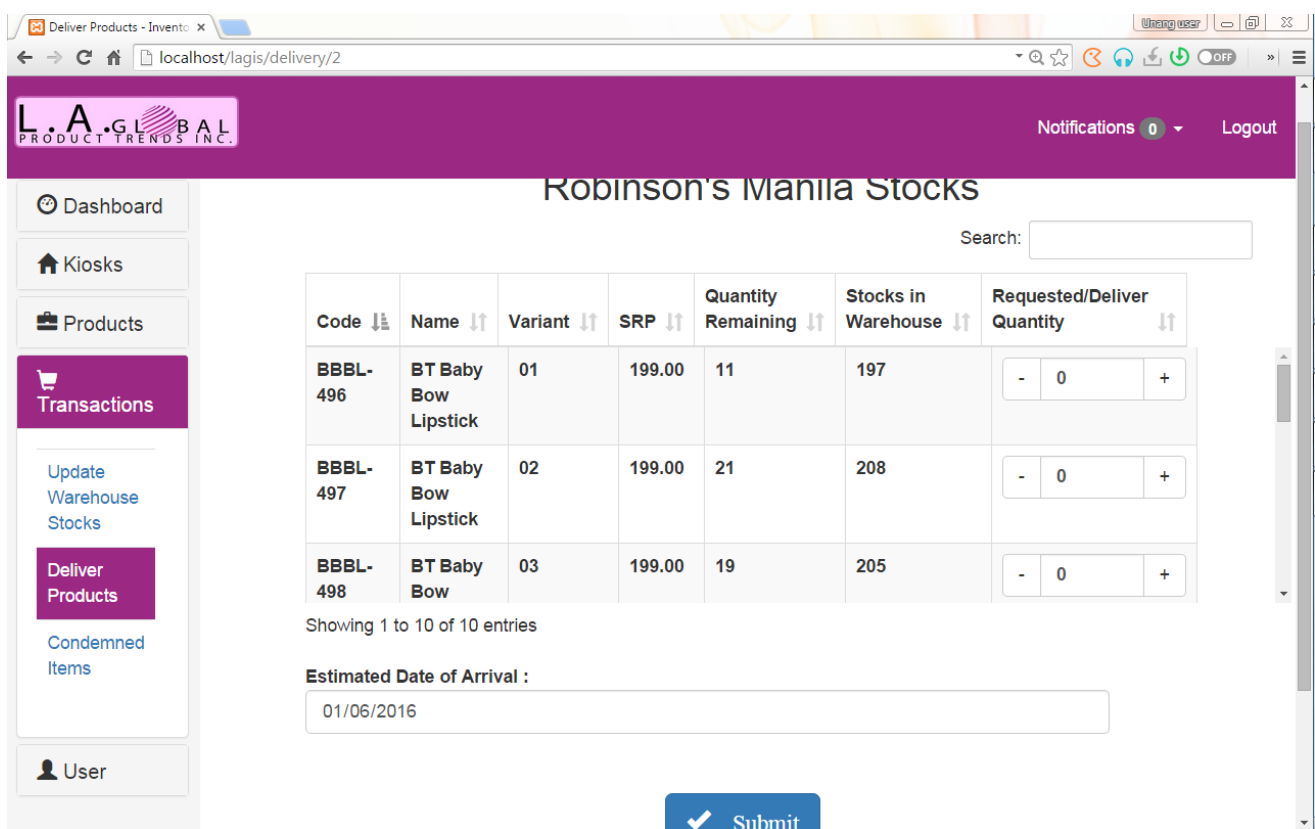


Figure 50: Deliver Products - LA Global Inventory System

The Warehouse Personnel can also respond to Stock Replenishment Requests as shown in Figure 51. The Warehouse Personnel can click on the Deliver button at the bottom of the notification page to be redirected to the Deliver Products page. The requested values will automatically be plugged into the spinner input. The user can still adjust the number of stocks to be delivered if s/he wishes to do so.

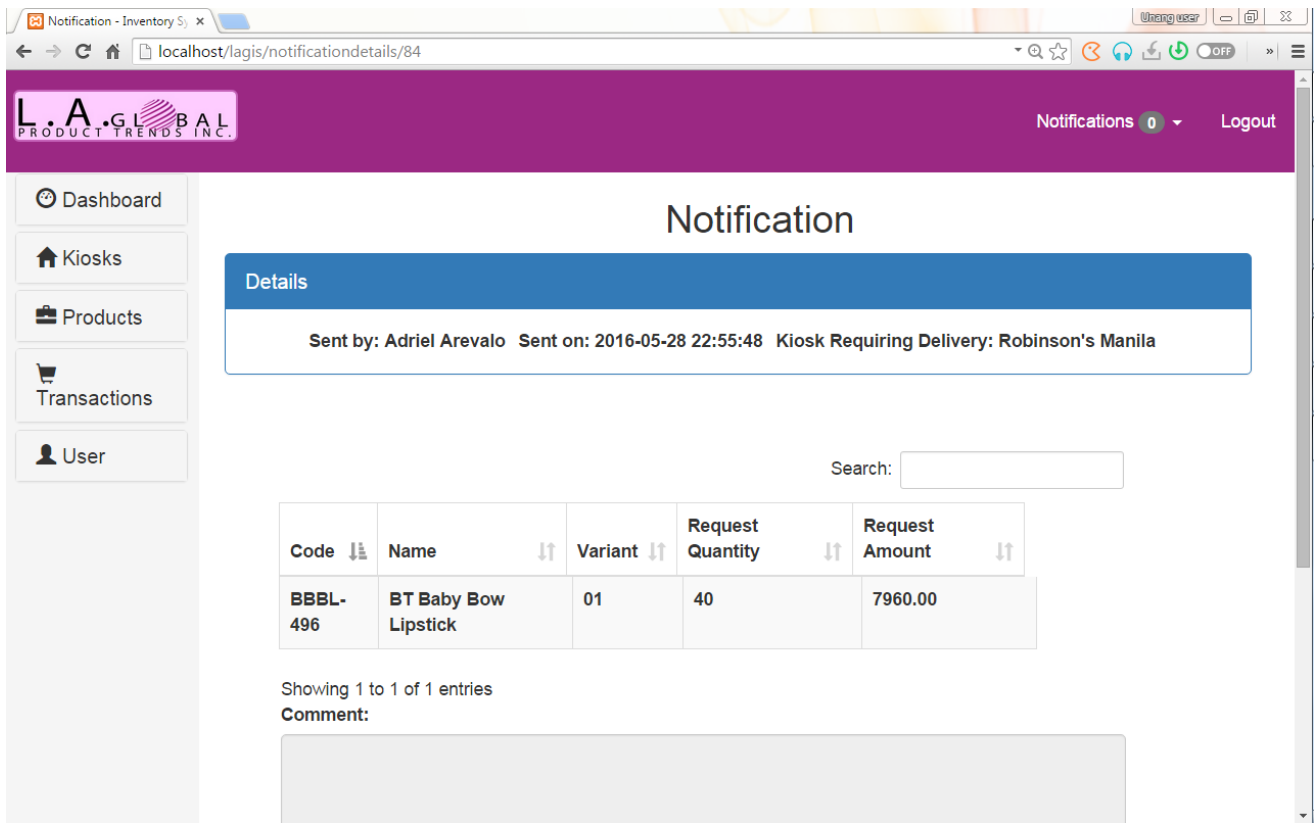


Figure 51: Stock Replenishment Request - LA Global Inventory System

The last type of user is the System Administrator who is tasked of approving and deactivating accounts. The System Administrator can approve and deactivate users by clicking on the User button at the Sidebar Menu and, then, clicking the Approve Users or Deactivate Users link. The Approve Users page is shown on Figure 52. The System Administrator can approve users by checking the checkbox corresponding to the user and, then, clicking “Approve”.

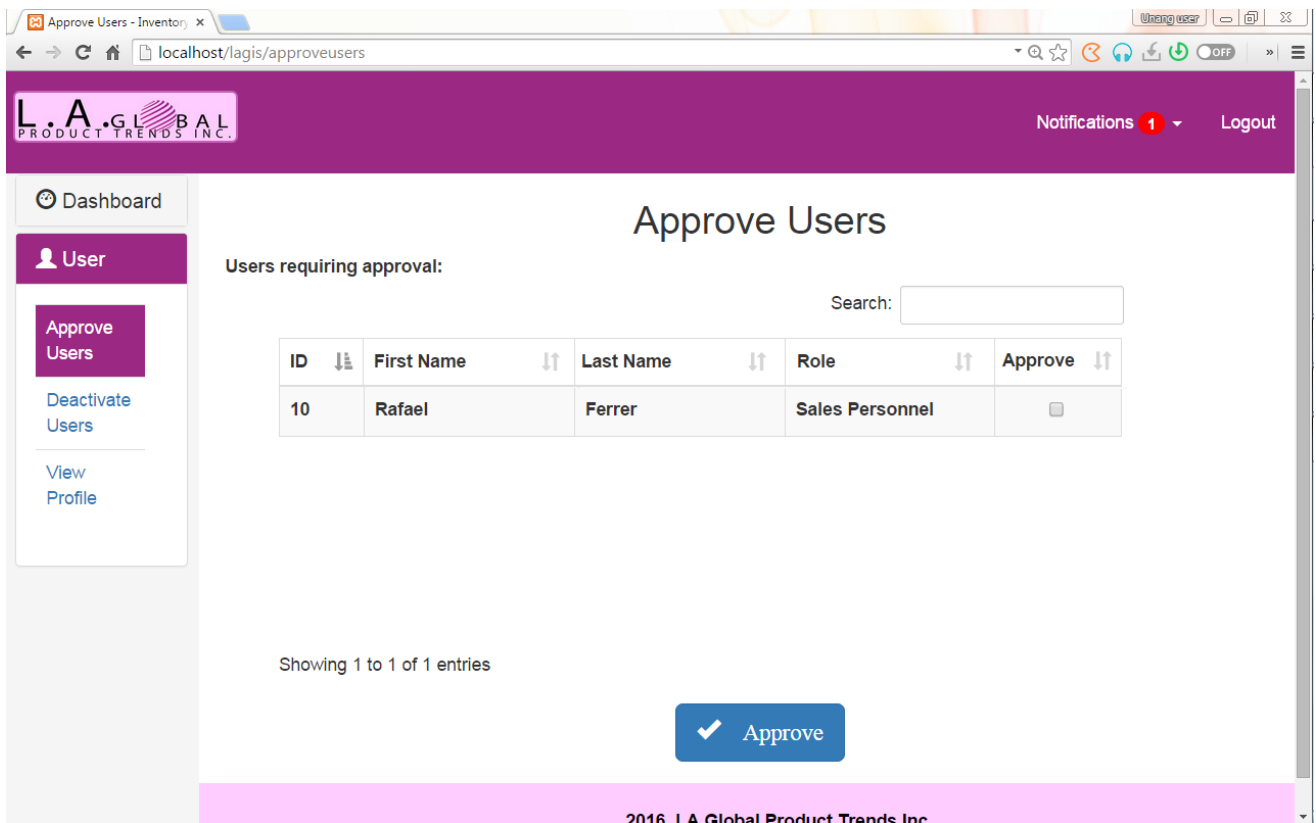


Figure 52: Approve Users - LA Global Inventory System

The Deactivate Users page is shown on Figure 53. The System Administrator can deactivate a user by checking the checkbox corresponding to the user and, then, clicking “Submit”.

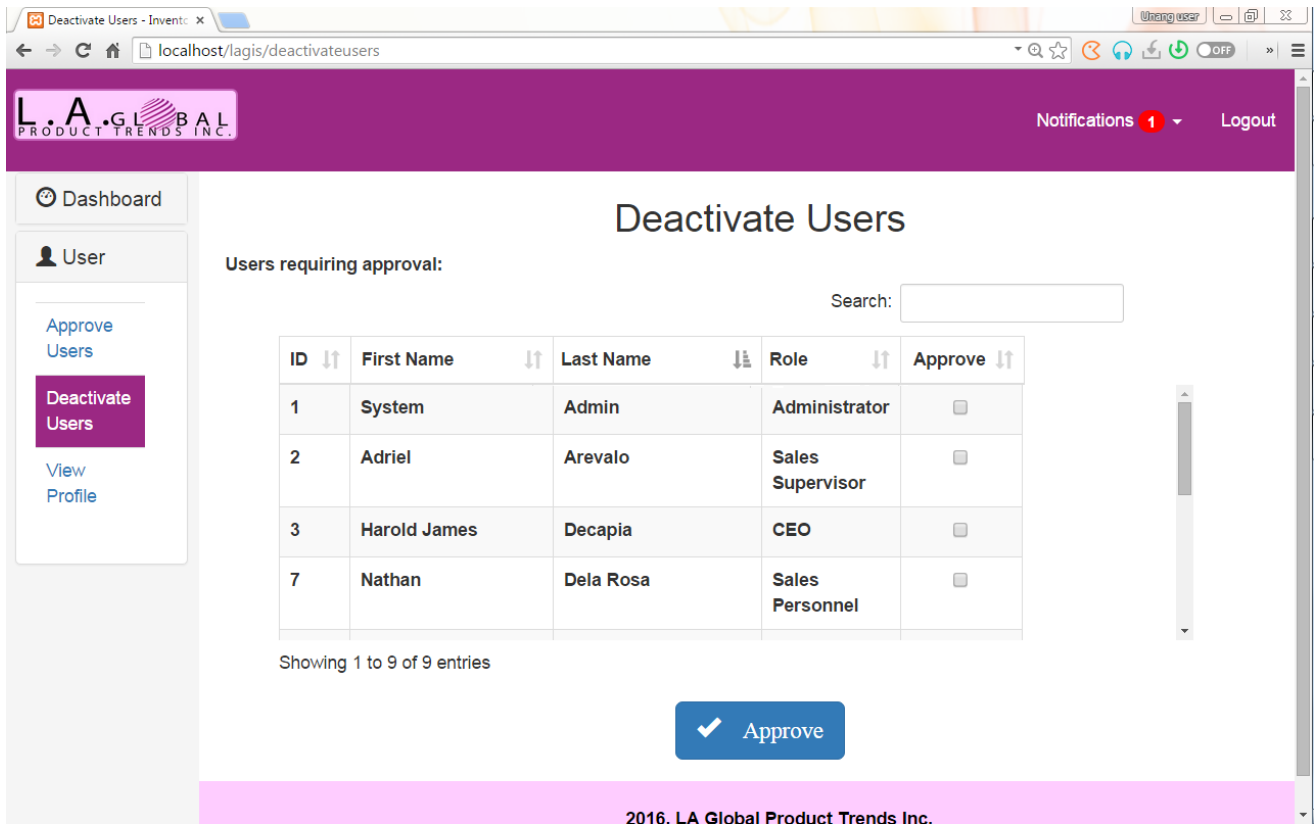


Figure 53: Deactivate Users - LA Global Inventory System

VI. Discussions

The LA Global Product Trends, Inc. Inventory System is a web based application that allows the company to manage the stock levels of its kiosks and warehouse. The inventory system automates the business functions that were previously performed manually by the company's employees. It can also store transaction information which can be summarized into reports and analytics.

Certain advantages can be derived from the installation of the system. One of these advantages is the availability of real time information. The CEO and the Sales Supervisors can easily generate up-to-date reports since the system consolidates real time information from the Sales Personnel. Furthermore, stocks can easily be replenished since notifications are automatically sent out when the thresholds are reached. Sales Supervisors can immediately request for stocks from the Warehouse whenever they receive stock replenishment notifications. These notifications can easily be responded to by the Warehouse Personnel and the CEO as long as they are online since they are sent in real time.

Besides the availability of real time information, another advantage of the automated inventory system is the capability to trace missing items. Sales Personnel can now indicate whether an item is damaged, missing, or used as a tester. The CEO can also trace discrepancies by searching the list of transactions and condemned items in the Trace Transactions page. The CEO can now identify when, where, and how a product was moved by the company's employees.

Another benefit derived from the system is the ability to predict the sales of kiosks and products. The analytics module of the system allows the company to prepare for future demands in all kiosks. Since the sales dynamics in every kiosk is different, the analytics module will help the company's employees to adequately supply the kiosks with products that are highly demanded by the customers. This will prevent the kiosks from running out of stocks and losing sales opportunities.

The inventory system, however, possesses some disadvantages as well. One of these disadvantages is the usage of the exponential smoothing technique to produce

sales predictions. Despite producing relatively accurate predictions in a short span of time, the accuracy of the exponential smoothing lowers whenever there are seasonal variations in the data [26]. This means that the smoothing technique will not capture the seasonality of sales of specific products very well. Capturing the seasonality of product sales will greatly affect the demand management of the company since it may help the employees of the company determine when a specific product sells fast. With this information, the employees can deliver adequate amounts of products to the kiosks. Holt-Winter's Method may prove to be an appropriate method to handle seasonality. However, it may be disrupted by outliers in the data [27].

Another disadvantage possessed by the system is the lack of a report which generates the gross income of the company and its kiosks. Currently, the reports module of the inventory system can only measure net totals and average sales of the kiosk. A report which generates the gross income of a company and the kiosks can help measure which kiosks are profitable and which ones are suffering from losses. This information can also help the head officers of the company to determine which kiosks are worth focusing on and which kiosks should be shut down.

Despite these disadvantages, the system can still compete with the latest commercially available inventory softwares such as TradeGecko and Fishbowl Inventory. Compared to TradeGecko, the inventory system can accommodate a greater number of users compared to TradeGecko's maximum of 10 users [10]. The system can also accommodate pullout and stock replenishment requests from the Sales Supervisors unlike in Fishbowl Inventory wherein the user has to manually inspect all kiosks to identify which stocks are slow moving and, then, manually pulling those stocks out [11]. Furthermore, the inventory system can provide predictions using the Analytics module, which is absent in most inventory systems. The reports can also be customizable unlike the ones generated by most inventory systems which are just counts of sold products and remaining stocks. Since the inventory system

is designed specifically for LA Global Product Trends Inc., the company can make sure that the system follows its business rules.

Given the aforementioned benefits, automating the system greatly hastens the business processes compared to the company's manual inventory management system. Prior to the automation, the generation of reports are slow because the company has to wait for the Sales Personnel to submit their tally sheets at the end of the month. After the tally sheets have been submitted, the report generation takes a lengthy amount of time since the encoder has to manually inspect these tally sheets before entering them into the Excel File. Due to the automation of the inventory system, reports can now be generated with a press of a button since the Sales Personnel of every kiosk transmits real time information which is automatically consolidated by the system. Furthermore, Sales Supervisors do not have to wait for their stocks to run out before calling the Warehouse to request for a delivery. Sales Supervisors can now send Stock Replenishment requests through the system whenever the threshold has been reached.

The improvement in the speed of performing business processes can be proven by previous studies. According to Karimi, et al., 80% of the employees Jomo Kenyatta University of Agriculture and Technology, which has a fairly developed warehouse operation, believe that there were improvements in the speed of retrieving items from the warehouses. Furthermore, the respondents cited an increase in the accuracy of the recording of transactions [4]. Moreover, Ngugi, et al. found that the information from inventory systems contribute greatly to the decision-making ability of the managers in Uchumi Supermarkets in Kenya. The managers were able to reduce the inventory and human resource requirements to a competitive level using the information given by the inventory system [28].

Automating the system does not only improve the speed and accuracy of performing business processes. According to Modak, et al. the number of out-of-stock products in Spartan Stores, inc. initially decreased by 50% when the CAO-PI was introduced. Since the products sold by Spartan Stores, Inc. were rarely

out-of-stock, the sales opportunity increased which led to increased revenues and profitability. When CAO-PI was installed in other branches of the store, cost savings of up to 10% and an 82% decrease in the number of out-of-stock items were recorded [7]. Wanjohi, et al., on the other hand, found out that the installation of electronic inventory management systems in Kenyan supermarkets improved the monitoring of stock levels. Furthermore, customers were satisfied because of the increased variety of products available in the supermarkets [8].

Previous studies also attribute the increase in revenue to the introduction of business analytics. According to Gollapudi, et al., organizations which used IBM's Business Analytics software experienced 33% revenue growth and a 32% increase in capital investment returns [29]. Moreover, Olexova mentioned that previous studies performed in Finnish companies that use Business Intelligence and Analytics gained benefits such as better quality of information for decision making, improved ability to anticipate threats and opportunities, and faster decision making. Furthermore, Olexova also mentioned that previous studies indicate that companies may gain revenue increases and improved customer service from Business Intelligence [30].

VII. Conclusions

The LA Global Product Trends, Inc. inventory system has been created to monitor the inventory levels of the kiosks and the warehouse. The inventory system can also generate reports and predictive analytics from the sales data submitted by the kiosks.

Employees of the company can sign up for an account with varying functions depending on their role in the company. The Sales Personnel can update sales transactions and record condemned items when they can no longer be sold. They can also receive low stock notifications, delivery confirmation notifications and pullout confirmation notifications.

The CEO, on the other hand, can create and update kiosks and products, generate reports and view sales analytics, trace transactions and condemned items, and decide on pullout and delivery notifications. The CEO will also receive a low stock notification when a product in the warehouse has reached its threshold.

The inventory system allows the Sales Supervisor to update the designated kiosk's information, view reports for the kiosk assigned to him/her, set product thresholds, and make stock replenishment or pullout requests. In addition, the Sales Supervisor can receive low stock notifications, delivery confirmation notifications, and pullout confirmation notifications similar to the Sales Personnel.

The Warehouse Personnel has been granted the capability to create and update products, set warehouse thresholds, update warehouse stocks, record condemned items in the warehouse, and make delivery notifications. Furthermore, the Warehouse Personnel can receive low stock notifications from the Warehouse, delivery confirmation notifications and pullout confirmation notification.

Lastly, the System Administrator is tasked with approving or deactivating of user accounts.

In conclusion, the LA Global Product Trends, Inc. inventory system has automated the business processes performed by the company's employees. The automation of the system hastened the generation of reports by automatically

consolidating the sales information submitted from the kiosks. The system can also notify its users whenever the stocks in a kiosk has reached its threshold or whenever a pullout or delivery has been approved by the CEO. These functionalities allow the company to respond to the demands of the customers without overstocking the kiosks.

VIII. Recommendations

As mentioned in the previous chapter, the Exponential Smoothing Forecasting method cannot take the seasonality of products into account. Therefore, an analytics module using the Holt-Winters Method may help inventory systems prepare for the seasonal demands for the products. The Holt-Winters method may serve as an option in the Analytics module to respond to the seasonality of products.

The addition of reports which measures the gross income of the company and the kiosk is also recommended. This report can help the head officers of the company to determine which kiosks are profitable and focus on them. Kiosks that are suffering from losses may be transferred into a new branch or may be shut down.

One limitation of the LA Global Inventory System is that it does not allow the CEO to order from the company's supplier directly using the system. It is recommended to add an additional functionality which may allow the CEO to contact the suppliers and send order forms easily and quickly.

Another recommendation is the lack of visual representation of products. The addition of such feature may allow users to identify products quickly.

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X. Appendix

A. Forms

One file is allotted per kiosk. For every kiosk, the monthly sales are inputted into the sheet assigned for that month. The total sales for the month are shown at the end of the sheet as shown in Figure 55. The total sales for the year, on the other hand, are shown in another sheet as shown in Figure 56.

STORE INVENTORY			OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET	OUTLET			
BEAUTY TREATS			Sales																		
ITEM CODE	ITEM DESCRIPTION	SRP	BEG. QTY	Del	Del	Pat	Tester	30	31	1	2	3	4	5	End	Var	BEG. QTY	Del	Del	Pat	
Monthly Target:			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0434	BT 2nd Love Eyebrow Dark 03	239.00													0		0				
0432	BT 2nd Love Eyebrow Light 01	239.00													0		0				
0433	BT 2nd Love Eyebrow Medium 02	239.00													0		0				
0340	BT Defining Liquid Mascara Black	216.50													0		0				
0030	BT Defining Mascara	216.50													0		0				
0031	BT Eye Cream	463.50													0		0				
* EYE LINER PENCIL *																					
0032	BT Eye Liner Pencil Short Black	216.50													0		0				
0033	BT Eye Liner Pencil Short Dark Brown	216.50													0		0				
0034	BT Eye Liner Pencil Short Eggplant	216.50													0		0				
0035	BT Eye Liner Pencil Short Emerald	216.50													0		0				
0036	BT Eye Liner Pencil Short Light Brown	216.50													0		0				
0037	BT Eye Liner Pencil Short Navy	216.50													0		0				
0038	BT Eye Liner Pencil Short Steel	216.50													0		0				
0029	BT Long Wear Eye Liner Black	239.00													0		0				
* EYESHADOW *																					
0025	BT Pure Eyeshadow Blue Gray	309.25													0		0				
0026	BT Pure Eyeshadow Brown Orange	309.25													0		0				
0024	BT Pure Eyeshadow Purple Pink	309.25													0		0				
0435	BT Swag Bag	399.00													0		0				

Figure 54: Excel File used in consolidating sales

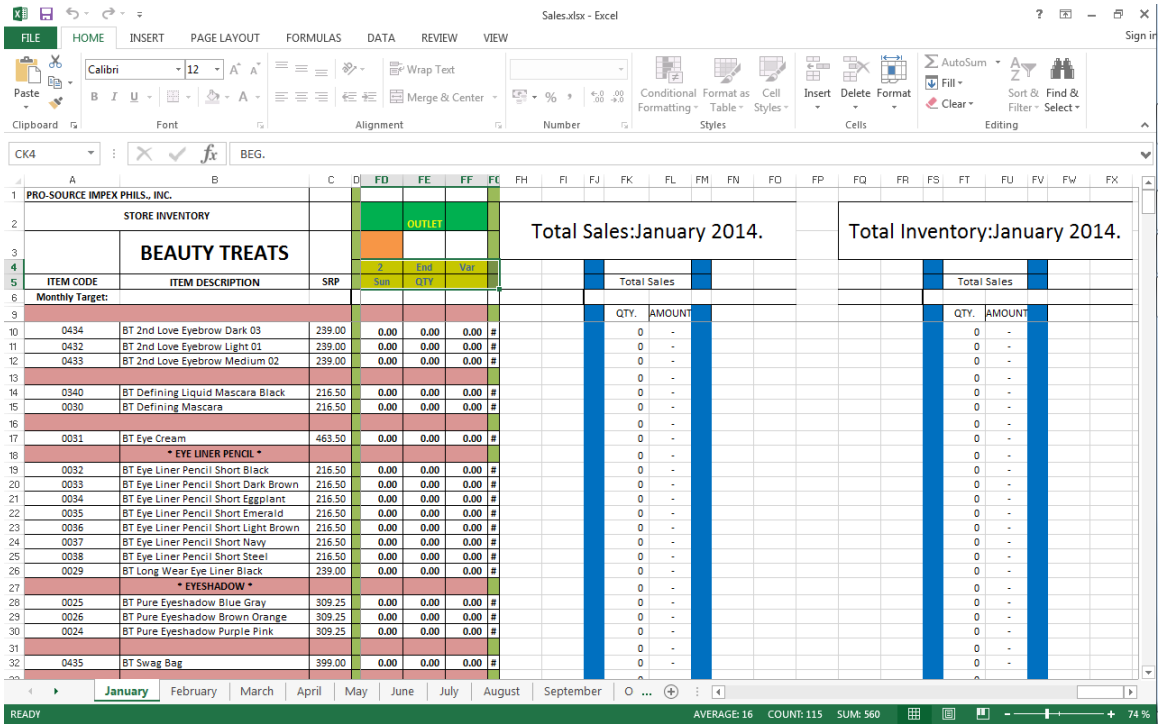


Figure 55: Excel File used in consolidating sales (Total Sales for the month)

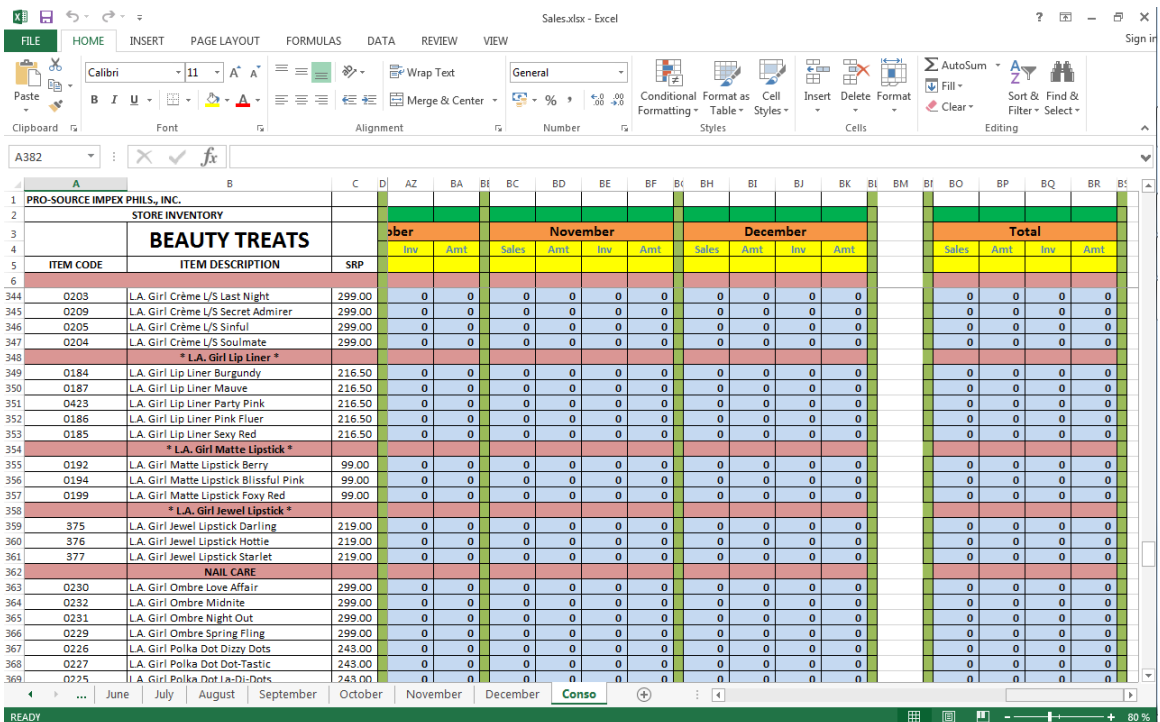


Figure 56: Excel File used in consolidating sales (Total Sales for the year)


```

$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
        $_SESSION['user_id'], "unread", 5);
$this->load->model('transaction_model');
$this->load->model('kiosk_model');
$this->load->helper('form');
$data['title'] = "View_Total_Sales_Analytics";
$data['observations'] = $this->
    transaction_model->
    retrieve_progress_analytics(array(1), '
    total', date('Y'), false);
$breakdown = $this->transaction_model->
    retrieve_total_breakdown();
$data['product_sales'] = $breakdown[0];
$info = $breakdown[1];
$data['prediction'] = array();
for($x = 0; $x < count($data['observations']);
    $x++){
    $array = $data['observations'][$x];
    $data_obs = array_column($array['value_array']
        ], 'sales');
    $a = 2 / (count($data_obs) + 1);
    $num = count($data_obs);
    $data_obs = implode('-', $data_obs);
    $data_labels = array_column($array['
        value_array'], 'month');
    $data_labels = implode('-', $data_labels);
    $f = new TS("Time_Series", $data_obs,
        $data_labels);
    //print_r( $f->ts_smoothing_simple($a, null,
        $num) );
    $value_array = array(
        'kiosk_id' => $array['kiosk_id'],
        'value_array' => $f->ts_smoothing_simple($a,
            null, $num)
    );
    array_push($data['prediction'], $value_array);
}
$data['product_prediction'] = array();
for($x = 0; $x < count($data['product_sales']);
    $x++){
    $array = $data['product_sales'][$x];
    $data_obs = array_column($array['value_array']
        ], 'sales');
    $a = 2 / (count($data_obs) + 1);
    $num = count($data_obs);
    $data_obs = implode('-', $data_obs);
    $data_labels = array_column($array['
        value_array'], 'month');
    $data_labels = implode('-', $data_labels);
    $f = new TS("Time_Series", $data_obs,
        $data_labels);
    $value_array = array(
        'code' => $array['code'],
        'value_array' => $f->ts_smoothing_simple($a,
            null, $num)
    );
    array_push($data['product_prediction'],
        $value_array);
}

$data['prediction2'] = array();
if(isset($data['product_prediction'][0]['
    value_array']) && count($data['
    product_prediction'][0]['value_array'] >
    0)
    $length = count($data['product_prediction']
        ][0]['value_array']);
    else
    $length = 0;
    for($y = 0; $y < $length; $y++){
    $total = 0;
    for($x = 0; $x < count($data['
        product_prediction']); $x++){
    $element = $data['product_prediction'][$x]['
        value_array'];
    $key = array_search($data['product_prediction']
        )[$x]['code'], array_column($info, 'code'
        ));
    if(! ($key == false && $info[$key]['code'] !=
        $data['product_prediction'][$x]['code'
        ]))){
    $total += round($element[$y]) * $info[$key]['
        srp'];
    }
    }
    array_push($data['prediction2'], $total);
}
$this->load->view('header', $data);
$this->load->view('total_analytics', $data);
$this->load->view('footer');
}else{
    redirect('/');
}

public function productAnalytics(){
    if(isset($_SESSION['username']) && $this->
        user_model->check_match_role($_SESSION['
        role'], 'CEO')){
    $data['notifications'] = $this->
        notification_model->retrieve_all_notifs(
            $_SESSION['user_id'], "unread", 5);
    $this->load->model('transaction_model');
    $this->load->model('product_model');
    $this->load->helper('form');
    $data['title'] = "View_Product_Analytics";
    $data['products'] = $this->product_model->
        retrieve_products_not_zero();
    $products = $this->input->post('products');
    if(count($products) > 0){
    $data['observations'] = $this->
        transaction_model->
        retrieve_progress_analytics($products, '
        product', date('Y'), false);
    $data['prediction'] = array();
    for($x = 0; $x < count($data['observations']);
        $x++){
    $array = $data['observations'][$x];
    $data_obs = array_column($array['value_array']
        ], 'sales');
    $a = 2 / (count($data_obs) + 1);
}

```



```

$this->load->model('user_model');
$this->load->helper('form');
if($kiosk_id != 0){
$data['kiosk_id'] = $kiosk_id;
$data['kiosk'] = $this->kiosk_model->
    retrieve_spec_kiosk($kiosk_id);
$assign = $this->kiosk_model->
    retrieve_assignments($kiosk_id);
$a = array();
for($x = 0; $x < count($assign); $x++){
array_push($a, $assign[$x]['user_id']);
}
$data['assignments'] = $a;
}else{
$data['kiosk'] = 0;
}
$data['location'] = $this->kiosk_model->
    getLocation();
$data['personnel'] = $this->user_model->
    retrieve_personnel("Sales_Personnel");
$data['supervisor'] = $this->user_model->
    retrieve_personnel("Sales_Supervisor");
$data['title'] = "Update_Kiosk_Information";
$this->load->view('header', $data);
$this->load->view('kiosk_registration', $data)
    ;
$this->load->view('footer');
}else{
redirect('/');
}
}
public function editUpdatedKiosk(){
if(isset($_SESSION['username']) && ($this->
    user_model->check_match_role($_SESSION[
    'role'], 'CEO') || $this->user_model->
    check_match_role($_SESSION['role'], '
    Sales_Supervisor'))){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$this->load->model('kiosk_model');
$process['process'] = 'Kiosk_Details_Update';
$this->kiosk_model->update_data();
$data['title'] = 'Update_Kiosk_Information';
$this->load->view('header', $data);
$this->load->view('success', $process);
$this->load->view('footer');
}else{
redirect('/');
}
}
public function deliverProducts(){
if(isset($_SESSION['username']) && $this->
    user_model->check_match_role($_SESSION[
    'role'], 'Warehouse_Personnel')){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$this->load->model('kiosk_model');
$process['process'] = 'Kiosk_Registration';

```

```

$data['title'] = 'Deliver_Products';
$data['kiosk'] = $this->kiosk_model->
    retrieve_kiosks("few");
$this->load->view('header', $data);
$this->load->view('deliver_kiosk_display',
    $data);
$this->load->view('footer');
}else{
redirect('/');
}
}
public function delivery($id = 0){
if(isset($_SESSION['username']) && $this->
    user_model->check_match_role($_SESSION[
    'role'], 'Warehouse_Personnel')){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$this->load->model('product_model');
$this->load->model('kiosk_model');
$data['title'] = 'Deliver_Products';
$quantity = $this->product_model->
    retrieve_quantity_spec($id);
$data['quantity'] = $quantity;
$data['id'] = $id;
$data['warehouse_quantities'] = $this->
    product_model->retrieve_quantity_spec(1);
$data['headers'] = array('Code', 'Name', '
    Variant', 'SRP', 'Quantity_Remaining', '
    Stocks_in_Warehouse');
$kiosk = $this->kiosk_model->
    retrieve_spec_kiosk($id);
$data['name'] = $kiosk['kiosk_name']."_Stocks"
    ;
$quantity_code = array();
for($x=0; $x < count($quantity); $x++){
array_push($quantity_code, $quantity[$x]['code
    ']);
}
$this->load->view('header', $data);
$this->load->view('update_stocks', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}
public function delivery_notif($id = 0,
    $notif_id = 0){
if(isset($_SESSION['username']) && $this->
    user_model->check_match_role($_SESSION[
    'role'], 'Warehouse_Personnel')){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$this->load->model('product_model');
$this->load->model('kiosk_model');
$data['title'] = 'Deliver_Products';
$quantity = $this->product_model->

```

```

        retrieve_quantity_spec($id);
    $data['quantity'] = $quantity;
    $data['id'] = $id;
    $data['notif_id'] = $notif_id;
    $data['warehouse_quantities'] = $this->
        product_model->retrieve_quantity_spec(1);
    $data['headers'] = array('Code', 'Name', '
        Variant', 'SRP', 'Quantity_Remaining', '
        Warehouse_Quantity');
    $kiosk = $this->kiosk_model->
        retrieve_spec_kiosk($id);
    $data['name'] = $kiosk['kiosk_name']."_Stocks"
        ;
    $quantity_code = array();
    for($x=0; $x < count($quantity); $x++){
    array_push($quantity_code, $quantity[$x]['code
        ']);
    }
    $this->load->model('notification_model');
    $data['request_quantity'] = $this->
        notification_model->retrieve_products(
        $notif_id);
    $this->notification_model->update_confirmation
        ($this->input->post('notif_id'),
        $_SESSION['user_id']);
    $this->notification_model->update_read(
        $notif_id, $_SESSION['user_id']);
    $this->load->view('header', $data);
    $this->load->view('update_stocks', $data);
    $this->load->view('footer');
    }else{
    redirect('/');
    }
    }
    public function saveStocks(){
    if(isset($_SESSION['username']) && $this->
        user_model->check_match_role($_SESSION['
        role'], 'Warehouse_Personnel')){
    $data['notifications'] = $this->
        notification_model->retrieve_all_notifs(
        $_SESSION['user_id'], "unread", 5);
    $this->load->helper('form');
    $this->load->model('notification_model');
    if($this->input->post('id') == 1){
    $data['title'] = 'Warehouse';
    $data['process'] = 'Warehouse_Stock_Update';
    }else{
    $this->load->model('product_model');
    $data['title'] = 'Deliver_Products';
    $data['process'] = 'Deliver_Products';
    }
    $reference = $this->input->post('notif_id');
    if(empty($reference)){
    $reference = 0;
    }
    $this->notification_model->create_notif($this
        ->input->post('id'), $_SESSION['user_id'
        ], 'Delivery', $this->input->post('eta'),
        $reference);
    $this->load->view('header', $data);
    $this->load->view('success', $data);
    $this->load->view('footer');
    }else{
    redirect('/');
    }
    }
    public function transactionRecord(){
    $id = $_SESSION['user_id'];
    $assignment = $this->user_model->
        retrieve_kiosk_assignment($id);
    if(isset($_SESSION['username']) && count(
        $assignment) > 0 && $this->user_model->
        check_match_role($_SESSION['role'], '
        Sales_Personnel')){
    $data['notifications'] = $this->
        notification_model->retrieve_all_notifs(
        $_SESSION['user_id'], "unread", 5);
    $this->load->helper('form');
    $this->load->model('product_model');
    $this->load->model('kiosk_model');
    $this->load->model('user_model');
    $data['title'] = 'Update_Sales';
    $data['headers'] = array('Code', 'Name', '
        Variant', 'SRP', 'Quantity_Remaining', '
        Units_Sold');
    $data['id'] = $assignment;
    $data['quantity'] = $this->product_model->
        retrieve_quantity_spec($assignment);
    $kiosk = $this->kiosk_model->
        retrieve_spec_kiosk($assignment);
    $data['name'] = $kiosk['kiosk_name']."_
        Transactions";
    $this->load->view('header', $data);
    $this->load->view('update_stocks', $data);
    $this->load->view('footer');
    }else{
    redirect('/');
    }
    }
    public function updateTransactions(){
    $this->load->model('kiosk_model');
    $assignment = $this->kiosk_model->
        retrieve_kiosk_assigned($_SESSION['
        user_id']);
    if(isset($_SESSION['username']) && count(
        $assignment) > 0 && $this->user_model->
        check_match_role($_SESSION['role'], '
        Sales_Personnel')){
    $data['notifications'] = $this->
        notification_model->retrieve_all_notifs(
        $_SESSION['user_id'], "unread", 5);
    $this->load->helper('form');
    $this->load->model('product_model');
    $this->load->model('notification_model');
    $data['title'] = 'Update_Sales';
    $data['process'] = 'Sales_Transaction_Update';
    $this->product_model->
        update_transaction_stocks($this->input->
        post('id'));
    $criticalStocks = $this->notification_model->

```

```

        check_stock_alert($this->input->post('id'
    ));
    $lowStockItems = array();
    for($x = 0; $x < count($criticalStocks); $x++)
    {
        if($criticalStocks[$x]['low_stock']){
            array_push($lowStockItems, $criticalStocks[$x
        ]);
        }
    }
    if(count($lowStockItems) > 0){
        $this->notification_model->set_notification('
            Stock_Replenishment', $_SESSION['user_id'
        ], $assignment[0]['kiosk_id'], 0, '');
        $this->notification_model->
            set_notification_products($lowStockItems)
        ;
        $recipients = $this->kiosk_model->
            retrieve_assignments($assignment[0]['
                kiosk_id']);
        $this->notification_model->set_recipients(
            $recipients);
    }
    $this->load->view('header', $data);
    $this->load->view('success', $data);
    $this->load->view('footer');
} else{
    redirect('/');
}
}

public function getKioskLocation(){
    if(isset($_SESSION['username']) && $this->
        user_model->check_match_role($_SESSION['
            role'], 'CEO')){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->helper('form');
        $data['title'] = 'Kiosk_Location';
        $this->load->view('header', $data);
        $this->load->view('location', $data);
        $this->load->view('footer');
    } else{
        redirect('/');
    }
}

public function editKioskLocation(){
    if(isset($_SESSION['username']) && $this->
        user_model->check_match_role($_SESSION['
            role'], 'CEO')){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->helper('form');
        $this->load->model('kiosk_model');
        $data['title'] = 'Update_Kiosk_Location';
        $data['locs'] = $this->kiosk_model->
            getLocation();
        $this->load->view('header', $data);
        $this->load->view('kiosk_loc_update', $data);
        $this->load->view('footer');
    } else{
        redirect('/');
    }
}

public function updateKioskLocation($id = 0){
    if(isset($_SESSION['username']) && $this->
        user_model->check_match_role($_SESSION['
            role'], 'CEO')){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->helper('form');
        $this->load->model('kiosk_model');
        $data['title'] = 'Update_Kiosk_Location';
        $data['loc_details'] = $this->kiosk_model->
            retrieve_spec_loc($id);
        $this->load->view('header', $data);
        $this->load->view('location', $data);
        $this->load->view('footer');
    } else{
        redirect('/');
    }
}

public function updateLocSuccess(){
    if(isset($_SESSION['username']) && $this->
        user_model->check_match_role($_SESSION['
            role'], 'CEO')){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->model('kiosk_model');
        $data['title'] = 'Update_Kiosk_Location';
        $data['process'] = 'Location_Details_Update';
        $this->kiosk_model->update_location($this->
            input->post('loc_id'));
        $this->load->view('header', $data);
        $this->load->view('success', $data);
        $this->load->view('footer');
    } else{
        redirect('/');
    }
}

public function saveLocation(){
    if(isset($_SESSION['username']) && $this->
        user_model->check_match_role($_SESSION['
            role'], 'CEO')){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->model('kiosk_model');
        $data['title'] = 'Kiosk_Location';
        $data['process'] = 'Location_Registration';
        $this->kiosk_model->addLocation();
        $this->load->view('header', $data);
        $this->load->view('success', $data);
        $this->load->view('footer');
    } else{
        redirect('/');
    }
}

```



```

$this->load->view('set_threshold', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}

public function saveProductThreshold(){
if(isset($_SESSION['username']) && ($this->
user_model->check_match_role($_SESSION['
role'], 'Sales_Supervisor') || $this->
user_model->check_match_role($_SESSION['
role'], 'Warehouse_Personnel'))){
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
$_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$data['title'] = 'Set_Product_Threshold';
$data['process'] = 'Set_Product_Threshold';
$this->load->model('product_model');
$this->product_model->set_threshold();
$this->load->view('header', $data);
$this->load->view('success', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}

public function getMiscTransaction(){
if(isset($_SESSION['username']) && ($this->
user_model->check_match_role($_SESSION['
role'], 'Sales_Personnel') || $this->
user_model->check_match_role($_SESSION['
role'], 'Warehouse_Personnel'))){
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
$_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$this->load->model('product_model');
$this->load->model('kiosk_model');
$data['title'] = 'Condemned_Items';
if($this->user_model->check_match_role(
$_SESSION['role'], 'Sales_Personnel')){
$assignment = $this->user_model->
retrieve_kiosk_assignment($_SESSION['
user_id']);
$data['id'] = $assignment;
if(count($assignment) <= 0){
redirect('/');
}
}
$data['quantity'] = $this->product_model->
retrieve_quantity_spec($assignment);
$kiosk = $this->kiosk_model->
retrieve_spec_kiosk($assignment);
$data['name'] = $kiosk['kiosk_name']."_
Condemned_Items";
}else{
$data['id'] = 1;
$data['quantity'] = $this->product_model->
retrieve_quantity_spec(1);
$data['name'] = "Warehouse_Condemned_Items";
}
}

}

$this->load->view('header', $data);
$this->load->view('misc_transactions', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}

public function saveMiscTransaction(){
if(isset($_SESSION['username']) && ($this->
user_model->check_match_role($_SESSION['
role'], 'Sales_Personnel') || $this->
user_model->check_match_role($_SESSION['
role'], 'Warehouse_Personnel'))){
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
$_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$data['title'] = 'Condemned_Items';
$data['process'] = 'Condemned_Items_
Registration';
$this->load->model('product_model');
$this->product_model->set_misc_transaction();
$this->load->view('header', $data);
$this->load->view('success', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}

public function recentTransactions(){
if(isset($_SESSION['username']) && ($this->
user_model->check_match_role($_SESSION['
role'], 'CEO'))){
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
$_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$data['title'] = 'Trace_Transactions';
$this->load->model('transaction_model');
$data['transactions'] = $this->
transaction_model->trace_transactions();
$data['comment'] = $this->transaction_model->
get_transaction_comment();
$this->load->view('header', $data);
$this->load->view('trace_transaction', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}
?>

```

Login Controller

```

<?php
class Login extends CI_Controller{
function __construct() {
parent::__construct();

```

```

$this->load->helper('url');
$this->load->model('user_model');
$this->load->model('notification_model');
}
public function getLogin(){
$this->load->helper('form');
$this->load->library('session');
if(isset($_SESSION['username'])){
redirect('/dashboard');
}else{
$this->load->view('login');
}
}
public function getSignup(){
$this->load->helper('form');
$this->load->view('signup');
}
public function signupSuccess(){
$this->load->helper('form');
$this->load->model('user_model');
$data['process'] = 'User_Registration';
$this->user_model->set_user_data();
$data['title'] = 'User_Registration';
$id = $this->user_model->retrieve_max_id();
$this->notification_model->set_notification('
    Confirm_User', $id['user_id'], 1, 0, '');
$recipients = $this->notification_model->
    retrieve_possible_recipients("
    Administrator");
$this->notification_model->set_recipients(
    $recipients);
$this->load->view('signup_success', $data);
}
public function loginSession(){
$this->load->library('session');
$this->load->model('user_model');
$user_data = $this->user_model->verify_user();
if($user_data != false){
$this->session->set_userdata($user_data);
redirect('/dashboard');
}else{
redirect('/');
}
}
public function Dashboard(){
$this->load->library('session');
if(isset($_SESSION['username'])){
$this->load->model('transaction_model');
$this->load->model('kiosk_model');
$data['title'] = "Dashboard";
$data['name'] = $this->user_model->
    retrieve_name($_SESSION['user_id']);
$data['notifications_page'] = $this->
    notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
if($this->user_model->check_match_role(
    $_SESSION['role'], 'Sales_Supervisor') ||
        $this->user_model->check_match_role(
        $_SESSION['role'], 'Sales_Personnel')){
    $kiosks = $this->kiosk_model->
        retrieve_kiosk_assigned($_SESSION['
        user_id']);
    if(count($kiosks) > 0){
        $data['kiosk_name'] = $kiosks[0]['kiosk_name'
        ];
        $data['week_sales'] = $this->transaction_model
        ->retrieve_week_sales(array_column(
        $kiosks, 'kiosk_id'));
    }
}
else if($this->user_model->check_match_role(
    $_SESSION['role'], 'CEO')){
    $kiosks = $this->kiosk_model->retrieve_kiosks(
        "less");
    $data['kiosk_name'] = "Total_Sales";
    $data['week_sales'] = $this->transaction_model
    ->retrieve_week_sales(array_column(
    $kiosks, 'kiosk_id'));
}
$this->load->view('header', $data);
$this->load->view('body', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}
public function Logout(){
$this->load->library('session');
$this->session->sess_destroy();
redirect('/');
}
public function approve(){
$this->load->library('session');
if(isset($_SESSION['username'])){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$this->load->model('user_model');
$data['title'] = "Approve_Users";
$data['users'] = $this->user_model->
    retrieve_users('F');
$this->load->view('header', $data);
$this->load->view('approve_users', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}
public function approveNotif($notif_id){
$this->load->library('session');
if(isset($_SESSION['username'])){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$this->load->model('user_model');
}
}

```



```

$this->notification_model->update_read(
    $notif_id, $_SESSION['user_id']);
$data['title'] = "Approve_Users";
$data['users'] = $this->user_model->
    retrieve_users('F');
$this->load->view('header', $data);
$this->load->view('approve_users', $data);
$this->load->view('footer');
}else{
    redirect('/');
}
}

public function deactivate(){
    $this->load->library('session');
    if(isset($_SESSION['username'])){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->helper('form');
        $this->load->model('user_model');
        $data['title'] = "Deactivate_Users";
        $data['users'] = $this->user_model->
            retrieve_users('T');
        $this->load->view('header', $data);
        $this->load->view('approve_users', $data);
        $this->load->view('footer');
    }else{
        redirect('/');
    }
}

public function deactivateSuccess(){
    $this->load->library('session');
    if(isset($_SESSION['username'])){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->model('user_model');
        $data['title'] = "Deactivate_Users";
        $data['process'] = "Deactivate_Users";
        $this->user_model->deactivate_users();
        $this->load->view('header', $data);
        $this->load->view('success', $data);
        $this->load->view('footer');
    }else{
        redirect('/');
    }
}

public function approveSuccess(){
    $this->load->library('session');
    if(isset($_SESSION['username'])){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->model('user_model');
        $data['title'] = "Approve_Users";
        $data['process'] = "Approve_Users";
        $this->user_model->approve_users();
        $this->load->view('header', $data);
        $this->load->view('success', $data);
        $this->load->view('footer');
    }else{
        redirect('/');
    }
}

public function viewProfile(){
    $this->load->library('session');
    if(isset($_SESSION['username'])){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->helper('form');
        $this->load->model('user_model');
        $data['details'] = $this->user_model->
            retrieve_profile($_SESSION['user_id']);
        $data['title'] = "View_Profile";
        $this->load->view('header', $data);
        $this->load->view('view_profile', $data);
        $this->load->view('footer');
    }else{
        redirect('/');
    }
}

public function updateProfile(){
    $this->load->library('session');
    if(isset($_SESSION['username'])){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->model('user_model');
        $check = $this->user_model->update_profile(
            $_SESSION['user_id']);
        $data['title'] = "View_Profile";
        $data['process'] = "Update_Profile";
        $this->load->view('header', $data);
        if(!$check){
            $data['reason'] = "Wrong_Password";
            $this->load->view('fail', $data);
        }
        else{
            $this->load->view('success', $data);
        }
        $this->load->view('footer');
    }else{
        redirect('/');
    }
}
?>

```

Notification Controller

```

<?php
defined('BASEPATH') OR exit('No direct script
    access allowed');
class Notification extends CI_Controller {
    function __construct() {
        parent::__construct();
        $this->load->helper('url');
        $this->load->library('session');
    }
}

```

```

public function getDetails($id){
if(isset($_SESSION['username'])){
$this->load->helper('form');
$this->load->model('notification_model');
$this->load->model('user_model');
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
$_SESSION['user_id'], "unread", 5);
$notifs = $this->notification_model->
retrieve_specific_notification($id);
$data['notification_details'] = $notifs;
$data['approved'] = $this->user_model->
retrieve_name($notifs[0]['approved_by']);
if($notifs[0]['notif_type'] == 3 || $notifs
[0]['notif_type'] == 5 || $notifs[0]['
notif_type'] == 6){
$data['items'] = $this->notification_model->
retrieve_products($notifs[0]['
notif_reference']);
$data['product_remaining'] = $this->
notification_model->
retrieve_product_details_ref($id);
if($notifs[0]['notif_type'] == 3){
$data['eta'] = $this->notification_model->
retrieve_eta($id);
}
$this->notification_model->update_read($id,
$_SESSION['user_id']);
}else if($notifs[0]['notif_type'] == 2 ||
$notifs[0]['notif_type'] == 4){
$data['items'] = $this->notification_model->
retrieve_products($id);
$data['product_remaining'] = $this->
notification_model->
retrieve_product_details($id);
if($notifs[0]['notif_type'] == 2){
$data['eta'] = $this->notification_model->
retrieve_eta($id);
}
}else if($notifs[0]['notif_type'] == 1){
$this->load->model('transaction_model');
$data['items'] = $this->notification_model->
retrieve_low_stocks($id);
$data['product_remaining'] = $this->
notification_model->
retrieve_product_details($id);
if($notifs[0]['approved'] == 'F'){
$data['average'] = $this->transaction_model->
retrieve_averages($notifs[0]['loc']);
}else if($notifs[0]['approved'] == 'T'){
$ref_id = $this->notification_model->
retrieve_referenced_notif($id);
$data['average'] = $this->notification_model->
retrieve_products($ref_id);
}
}else if($notifs[0]['notif_type'] == 7){
$this->load->model('transaction_model');
$data['transaction_code'] = $this->
notification_model->
retrieve_transaction_code($id);
}
}

$data['request'] = $this->notification_model->
retrieve_products($id);
}
$this->notification_model->update_read($id,
$_SESSION['user_id']);
$data['title'] = 'Notification';
$this->load->view('header', $data);
$this->load->view('notification', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}

public function acceptNotification(){
if(isset($_SESSION['username'])){
$this->load->model('product_model');
$this->load->model('notification_model');
$this->load->model('kiosk_model');
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
$_SESSION['user_id'], "unread", 5);
if($this->input->post('button_confirmation')
== "accept"){
$data['title'] = 'Notification';
$data['process'] = 'Notification_Confirmation'
;
if($this->notification_model->get_type($this->
input->post('notif_id')) == 2){
$confirmed_codes = $this->input->post('
confirmation');
$conf_quantity = count($confirmed_codes);
if($conf_quantity <= 0){
$confirmed_codes = array(-1);
}
$this->product_model->update_stocks($this->
input->post('notif_id'), $confirmed_codes
);
$this->notification_model->
update_product_approved($this->input->
post('notif_id'), $confirmed_codes);
if($this->notification_model->get_kiosk_id(
$this->input->post('notif_id')) != 1){
$this->product_model->update_warehouse_stocks(
$this->input->post('notif_id'), 'Delivery'
, $confirmed_codes);
$criticalStocks = $this->notification_model->
check_stock_alert(1);
$lowStockItems = array();
for($x = 0; $x < count($criticalStocks); $x++){
{
if($criticalStocks[$x]['low_stock']){
array_push($lowStockItems, $criticalStocks[$x
]);
}
}
}
if(count($lowStockItems) > 0){
$this->notification_model->set_notification('
Stock_Replenishment', $_SESSION['user_id'
], 1, 0, '');
$this->notification_model->

```

```

        set_notification_products($lowStockItems)
    ;
    $recipients = $this->notification_model->
        retrieve_possible_recipients('Warehouse_
        Personnel');
    $recipients2 = $this->notification_model->
        retrieve_possible_recipients('CEO');
    $this->notification_model->set_recipients(
        $recipients);
    $this->notification_model->set_recipients(
        $recipients2);
    }
    }
    $transaction = $this->notification_model->
        retrieve_specific_notification($this->
        input->post('notif_id'));
    $this->notification_model->set_notification('
    Delivery_Confirmation', $_SESSION['
    user_id'], $transaction[0]['loc'], $this
    ->input->post('notif_id'), substr($this->
    input->post('comment'), 0, 150));
    if($conf_quantity > 0){
    $recipients = $this->kiosk_model->
        retrieve_assignments($transaction[0]['loc
        ']);
    }
    $this->notification_model->set_recipients(
        $recipients);
    $recipients = $this->notification_model->
        retrieve_possible_recipients('Warehouse_
        Personnel');
    $this->notification_model->set_recipients(
        $recipients);
    $this->notification_model->update_confirmation
        ($this->input->post('notif_id'),
        $_SESSION['user_id']);
    }else if($this->notification_model->get_type(
        $this->input->post('notif_id')) == 4){
    $confirmed_codes = $this->input->post('
    confirmation');
    $conf_quantity = count($confirmed_codes);
    if( $conf_quantity <= 0){
    $confirmed_codes = array(-1);
    }
    $this->product_model->update_pullout_stocks(
        $this->input->post('notif_id'),
        $confirmed_codes);
    $this->notification_model->
        update_product_approved($this->input->
        post('notif_id'), $confirmed_codes);
    $this->product_model->update_warehouse_stocks(
        $this->input->post('notif_id'), 'Pullout'
        , $confirmed_codes);
    $transaction = $this->notification_model->
        retrieve_specific_notification($this->
        input->post('notif_id'));
    $this->notification_model->set_notification('
    Pullout_Confirmation', $_SESSION['user_id
    '], $transaction[0]['loc'], $this->input
    ->post('notif_id'), substr($this->input->
    post('comment'), 0, 150));
    $recipients = $this->kiosk_model->
        retrieve_assignments($transaction[0]['loc
        ']);
    $this->notification_model->set_recipients(
        $recipients);
    }
    $this->load->view('header', $data);
    $this->load->view('success', $data);
    $this->load->view('footer');
    }else{
        post('comment'), 0, 150));
    $recipients = $this->kiosk_model->
        retrieve_assignments($transaction[0]['loc
        ']);
    $this->notification_model->set_recipients(
        $recipients);
    if($conf_quantity > 0){
    $recipients = $this->notification_model->
        retrieve_possible_recipients('Warehouse_
        Personnel');
    }
    $this->notification_model->set_recipients(
        $recipients);
    $this->notification_model->update_confirmation
        ($this->input->post('notif_id'),
        $_SESSION['user_id']);
    }
    }else if($this->input->post('
    button_confirmation') == "request"){
    $data['title'] = 'Notification';
    $data['process'] = 'Notification_Request';
    $this->notification_model->set_notification('
    Stock_Replenishment_Request', $_SESSION['
    user_id'], $this->input->post('notif_loc'
    ), $this->input->post('notif_id'), substr
    ($this->input->post('comment'), 0, 150));
    $recipients = $this->notification_model->
        retrieve_possible_recipients('Warehouse_
        Personnel');
    $this->notification_model->set_recipients(
        $recipients);
    $this->notification_model->
        set_request_products();
    $this->notification_model->update_confirmation
        ($this->input->post('notif_id'),
        $_SESSION['user_id']);
    }else{
    $data['title'] = 'Notification';
    $data['process'] = 'Notification_Rejection';
    $transaction = $this->notification_model->
        retrieve_specific_notification($this->
        input->post('notif_id'));
    $this->notification_model->set_notification('
    Reject_Notification', $_SESSION['user_id'
    ], $transaction[0]['loc'], $this->input
    ->post('notif_id'), substr($this->input->
    post('comment'), 0, 150));
    $this->notification_model->update_confirmation
        ($this->input->post('notif_id'),
        $_SESSION['user_id']);
    $recipients = $this->kiosk_model->
        retrieve_assignments($transaction[0]['loc
        ']);
    $this->notification_model->set_recipients(
        $recipients);
    }
    $this->load->view('header', $data);
    $this->load->view('success', $data);
    $this->load->view('footer');
    }else{

```

```

redirect('/');
}
}
public function getNotifications(){
$this->load->model('notification_model');
$data['notifications_page'] = $this->
notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "full", 200);
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$data['title'] = "Notifications_Page";
$this->load->view('header', $data);
$this->load->view('notification_list', $data);
$this->load->view('footer');
}
}
?>

```

Product Controller

```

<?php
class Product extends CI_Controller{
function __construct() {
parent::__construct();
$this->load->helper('url');
$this->load->library('session');
$this->load->model('user_model');
$this->load->model('notification_model')
}
public function getProdReg(){
if($this->session->userdata('username') && (
    $this->user_model->check_match_role(
        $_SESSION['role'], 'CEO') || $this->
user_model->check_match_role($_SESSION['
role'], 'Warehouse_Personnel'))){
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$this->load->model('product_model');
$data['max_code'] = $this->product_model->
get_max_id();
$data['title'] = "Register_Product";
$this->load->view('header', $data);
$this->load->view('product_registration',
    $data);
$this->load->view('footer');
}else{
redirect('/');
}
}
public function editProductDetail($code = 0){
if($this->session->userdata('username') && (
    $this->user_model->check_match_role(
        $_SESSION['role'], 'CEO') || $this->
user_model->check_match_role($_SESSION['
role'], 'Warehouse_Personnel'))){
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(

```

```

    $_SESSION['user_id'], "unread", 5);
$this->load->model('product_model');
$this->load->helper('form');
if($code != 0){
$data['product'] = $this->product_model->
retrieve_spec_prod($code);
}else{
$data['product'] = 0;
}
$data['title'] = "Update_Product_Information";
$this->load->view('header', $data);
$this->load->view('product_registration',
    $data);
$this->load->view('footer');
}else{
redirect('/');
}
}
public function getUpdateProd(){
if($this->session->userdata('username') && (
    $this->user_model->check_match_role(
        $_SESSION['role'], 'CEO') || $this->
user_model->check_match_role($_SESSION['
role'], 'Warehouse_Personnel'))){
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$this->load->model('product_model');
$this->load->helper('form');
$data['title'] = "Update_Product_Information";
$data['products'] = $this->product_model->
retrieve_products();
$this->load->view('header', $data);
$this->load->view('product_update', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}
public function saveProduct(){
if($this->session->userdata('username') && (
    $this->user_model->check_match_role(
        $_SESSION['role'], 'CEO') || $this->
user_model->check_match_role($_SESSION['
role'], 'Warehouse_Personnel'))){
$data['notifications'] = $this->
notification_model->retrieve_all_notifs(
    $_SESSION['user_id'], "unread", 5);
$this->load->model('product_model');
$process['process'] = 'Product_Registration';
$success = $this->product_model->
set_product_data();
$data['title'] = 'Register_Product';
if($success == 1){
$this->load->view('header', $data);
$this->load->view('success', $process);
$this->load->view('footer');
}else{
$process['reason'] = 'Duplicate_entry_found!';
$this->load->view('header', $data);

```

```

$this->load->view('fail', $process);
$this->load->view('footer');
}
}else{
redirect((('/'));
}
}
public function saveUpdatedProduct(){
if($this->session->userdata('username') && (
    $this->user_model->check_match_role(
        $_SESSION['role'], 'CEO') || $this->
        user_model->check_match_role($_SESSION['
        role'], 'Warehouse_Personnel'))){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
        $_SESSION['user_id'], "unread", 5);
$this->load->model('product_model');
$process['process'] = 'Product_Registration';
$success = $this->product_model->
    update_product_data();
$data['title'] = 'Update_Product_Details';
if($success == 1){
$this->load->view('header', $data);
$this->load->view('success', $process);
$this->load->view('footer');
}else{
$process['reason'] = 'Duplicate_entry_found!';
$this->load->view('header', $data);
$this->load->view('fail', $process);
$this->load->view('footer');
}
}else{
redirect((('/'));
}
}
}
?>

```

Report Controller

```

<?php
class Report extends CI_Controller {
public function __construct(){
parent::__construct();
$this->load->helper('url');
$this->load->library('session');
$this->load->model('user_model');
$this->load->model('notification_model');
}
public function getKioskReports(){
if(isset($_SESSION['username']) && ($this->
    user_model->check_match_role($_SESSION['
    role'], 'Sales_Supervisor') || $this->
    user_model->check_match_role($_SESSION['
    role'], 'CEO'))){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
        $_SESSION['user_id'], "unread", 5);
$KioskFilters = $this->input->post('
    kioskFilters');

```

```

$this->load->model('kiosk_model');
$this->load->model('product_model');
$this->load->model('transaction_model');
$data['title'] = 'View_Kiosk_Reports';
if($this->user_model->check_match_role(
    $_SESSION['role'], 'Sales_Supervisor')){
$data['kiosks'] = $this->kiosk_model->
    retrieve_kiosk_assigned($_SESSION['
    user_id']);
if(count($data['kiosks']) < 0){
$data['kiosks'] = array();
}
}else{
$data['kiosks'] = $this->kiosk_model->
    retrieve_kiosks("less");
$data['products'] = $this->product_model->
    retrieve_products();
$data['region'] = $this->kiosk_model->
    getLocation();
}
if($this->input->post('kioskFilters')){
$Kiosks = $this->input->post('kiosks');
$startDate = $this->input->post('startDate');
$endDate = $this->input->post('endDate');
if(isset($Kiosks))
$Kiosk_names = $this->kiosk_model->
    retrieve_kiosk_names($Kiosks);
if(isset($products))
$product_names = $this->product_model->
    retrieve_product_name($products);
if(isset($Kiosks))
$data['kiosk_filter'] = $Kiosks;
if(isset($products))
$data['product_filter'] = $products;
if(isset($region))
$data['region_filter'] = $region;
if(count($Kiosks) > 0){
$data['report'] = $this->transaction_model->
    retrieve_reports($Kiosks, $startDate,
        $endDate, $KioskFilters, $Kiosk_names);
$data['progress'] = $this->transaction_model->
    retrieve_progress_report($Kiosks, 'kiosk'
        , date('Y'));
$data['year_progress'] = $this->
    transaction_model->
    retrieve_individual_year_progress($Kiosks
        , 'kiosk');
}
if(isset($Kiosks))
$data['kioskFilters'] = $KioskFilters;
$data['startDate'] = $startDate;
$data['endDate'] = $endDate;
if(isset($products))
$data['product_codes'] = $products;
}else{
$dates = $this->transaction_model->
    retrieve_date();
$data['startDate'] = substr($dates[0]['start'
        ], 0, 10);
$data['endDate'] = substr($dates[0]['end'], 0,

```

```

        10);
    }
    if($this->input->post('action') === "pdf" ){
        $data['title'] = "Kiosk";
        $header = $this->load->view('pdf_header',
            $data, true);
        $html = $this->load->view('pdf_report', $data,
            true);
    }else{
        $this->load->helper('form');
        $this->load->view('header', $data);
        $this->load->view('reports', $data);
    }
    $this->load->view('footer');
    if($this->input->post('action') === "pdf" ){
        $this->load->library('Pdf');
        $pdf = new Pdf('P', 'mm', 'A4', true, 'UTF-8',
            false);
        $pdf->SetTitle('Pdf_Example');
        $pdf->SetHeaderMargin(30);
        $pdf->SetTopMargin(20);
        $pdf->setFooterMargin(20);
        $pdf->SetAutoPageBreak(true, PDF_MARGIN_BOTTOM
            );
        $pdf->SetAuthor('Author');
        $pdf->SetDisplayMode('real', 'default');
        $pdf->AddPage();
        $pdf->writeHTML($header, true, false, true,
            false, '');
        $pdf->writeHTML($html, true, false, true,
            false, '');
        $pdf->SetFont('helvetica', 'N', 10);
        $pdf->Output('report_-' . date('Y-m-d') . '.pdf',
            'I');
    }
} else{
    redirect('/');
}
}

public function getProductReports(){
    if(isset($_SESSION['username']) && $this->
        user_model->check_match_role($_SESSION['
            role'], 'CEO')){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $kioskFilters = $this->input->post('
            kioskFilters');
        $this->load->model('kiosk_model');
        $this->load->model('product_model');
        $this->load->model('transaction_model');
        $data['title'] = 'View_Product_Reports';
        $data['kiosks'] = $this->kiosk_model->
            retrieve_kiosks("less");
        $data['products'] = $this->product_model->
            retrieve_products();
        $data['region'] = $this->kiosk_model->
            getLocation();
        if($this->input->post('kioskFilters')){
            $products = $this->input->post('products');
            $startDate = $this->input->post('startDate');
            $endDate = $this->input->post('endDate');
            if(isset($kiosks))
                $kiosk_names = $this->kiosk_model->
                    retrieve_kiosk_names($kiosks);
            if(isset($products))
                $product_names = $this->product_model->
                    retrieve_product_name($products);
            if(isset($kiosks))
                $data['kiosk_filter'] = $kiosks;
            if(isset($products))
                $data['product_filter'] = $products;
            if(isset($region))
                $data['region_filter'] = $region;
            if(count($products) > 0){
                $data['report'] = $this->transaction_model->
                    retrieve_product_reports($products,
                        $startDate, $endDate, $kioskFilters,
                        $product_names);
                $data['progress'] = $this->transaction_model->
                    retrieve_progress_report($products, '
                        product', date('Y'));
                $data['year_progress'] = $this->
                    transaction_model->
                        retrieve_individual_year_progress(
                            $products, 'product');
            }
            $data['kioskFilters'] = $kioskFilters;
            $data['startDate'] = $startDate;
            $data['endDate'] = $endDate;
            if(isset($products))
                $data['product_codes'] = $products;
        }else{
            $dates = $this->transaction_model->
                retrieve_date();
            $data['startDate'] = substr($dates[0]['start'
                ], 0, 10);
            $data['endDate'] = substr($dates[0]['end'], 0,
                10);
        }
    }
    if($this->input->post('action') === "pdf" ){
        $data['title'] = "Product";
        $header = $this->load->view('pdf_header',
            $data, true);
        $html = $this->load->view('pdf_report', $data,
            true);
    }else{
        $this->load->helper('form');
        $this->load->view('header', $data);
        $this->load->view('reports', $data);
    }
    $this->load->view('footer');
    if($this->input->post('action') === "pdf" ){
        $this->load->library('Pdf');
        $pdf = new Pdf('P', 'mm', 'A4', true, 'UTF-8',
            false);
        $pdf->SetTitle('Pdf_Example');
        $pdf->SetHeaderMargin(30);
        $pdf->SetTopMargin(20);
        $pdf->setFooterMargin(20);

```



```

$data['title'] = 'View_Reports';
$data['breakdown_type'] = 'Kiosk';
$this->load->view('header', $data);
$this->load->view('breakdowns', $data);
$this->load->view('footer');
} else {
    redirect('/');
}
}

public function getRegionBreakdown($id = 0,
    $startDate, $endDate){
    if(isset($_SESSION['username']) && $id >= 1 &&
        $startDate != '' && $endDate != '' &&
        $this->user_model->check_match_role(
            $_SESSION['role'], 'CEO')){
        $data['notifications'] = $this->
            notification_model->retrieve_all_notifs(
                $_SESSION['user_id'], "unread", 5);
        $this->load->helper('form');
        $this->load->model('transaction_model');
        $data['breakdown'] = $this->transaction_model
            ->retrieve_region_breakdown($id,
                $startDate, $endDate);
        $data['title'] = 'View_Reports';
        $data['startDate'] = $startDate;
        $data['endDate'] = $endDate;
        $data['breakdown_type'] = 'Regional';
        $this->load->view('header', $data);
        $this->load->view('breakdowns', $data);
        $this->load->view('footer');
    } else {
        redirect('/');
    }
}

public function getPdfTransactionReport(){
    $data['notifications'] = $this->
        notification_model->retrieve_all_notifs(
            $_SESSION['user_id'], "unread", 5);
    $this->load->helper('form');
    $data['title'] = "Download_PDF";
    $data['process'] = 'Download_PDF';
    $this->load->model('notification_model');
    if($this->input->post("action") == "deliver"){
        $stype = $this->notification_model->
            get_notif_type('Delivery');
        $filename = "delivery_report_";
        $query = "SELECT_notification_eta.notif_eta_as_
            _eta,_notification.notif_id_as_id,_
            notification.notif_type_as_type,_
            kiosk_details.kiosk_name_as_kiosk_name,_
            product.code_as_code,_product.identifier_
            as_identifier,_product.name_as_name,_
            product.variant_as_variant,_
            notification_product.quantity_as_quantity
            ,_notification_product.quantity*_product
            .srp_as_total_amount_FROM_notification,_
            notification_product,_product,_
            kiosk_details,_notification_eta_WHERE_
            notification_eta.notif_id_as_notification.
            notif_id_AND_notification.notif_id_as_
            notification_product.notif_id_AND_
            notification.notif_location_as_
            kiosk_details.kiosk_id_AND_
            notification_product.code_as_product.code_
            AND_notification.notif_id_as(SELECT_MAX(
            notif_id)_FROM_notification_WHERE_
            notif_type_as?)";
    } else if($this->input->post("action") == "
        pullout"){
        $stype = $this->notification_model->
            get_notif_type('Pullout');
        $filename = "pullout_report_";
        $query = "SELECT_notification.notif_id_as_id,_
            notification.notif_type_as_type,_
            kiosk_details.kiosk_name_as_kiosk_name,_
            product.code_as_code,_product.identifier_
            as_identifier,_product.name_as_name,_
            product.variant_as_variant,_
            notification_product.quantity_as_quantity
            ,_notification_product.quantity*_product
            .srp_as_total_amount_FROM_notification,_
            notification_product,_product,_
            kiosk_details_WHERE_notification.notif_id
            as_notification_product.notif_id_AND_
            notification.notif_location_as_
            kiosk_details.kiosk_id_AND_
            notification_product.code_as_product.code_
            AND_notification.notif_id_as(SELECT_MAX(
            notif_id)_FROM_notification_WHERE_
            notif_type_as?)";
    }
    $q = $this->db->query($query, array($stype));
    $notif = $q->result_array();
    $data['details'] = $notif;
    $header = $this->load->view('pdf_header',
        $data, true);
    $html = $this->load->view('pdf_notif', $data,
        true);
    $this->load->library('Pdf');
    $pdf = new Pdf('P', 'mm', 'A4', true, 'UTF-8',
        false);
    $pdf->SetTitle('Pdf_Example');
    $pdf->SetHeaderMargin(30);
    $pdf->SetTopMargin(20);
    $pdf->setFooterMargin(20);
    $pdf->SetAutoPageBreak(true, PDF_MARGIN_BOTTOM
        );
    $pdf->SetAuthor('Author');
    $pdf->SetDisplayMode('real', 'default');
    $pdf->AddPage();
    $pdf->writeHTML($header, true, false, true,
        false, '');
    $pdf->writeHTML($html, true, false, true,
        false, '');
    $pdf->SetFont('helvetica', 'N', 10);
    $pdf->Output($filename.date('Y-m-d').'.pdf', '
        I');
}

public function getPdf($id){

```



```

$this->load->helper('form');
$data['title'] = "Download_PDF";
$data['process'] = 'Download_PDF';
$this->load->model('notification_model');
$ref_id = $this->notification_model->
    retrieve_reference($id);
$filename = "pullout_report_";
$query = "SELECT notification.notif_id as id,
notification.notif_type as type,
kiosk_details.kiosk_name as kiosk_name,
product.code as code, product.identifier as
identifier, product.name as name,
product.variant as variant,
notification_product.quantity as quantity,
notification_product.quantity*_product
.srp as total_amount FROM notification,
notification_product, product,
kiosk_details WHERE notification.notif_id
= notification_product.notif_id AND
notification.notif_location =
kiosk_details.kiosk_id AND
notification_product.code = product.code
AND notification_product.approved = 'T'
AND notification.notif_id = ?";
$q = $this->db->query($query, array($ref_id));
$notif = $q->result_array();
$data['details'] = $notif;
$header = $this->load->view('pdf_header',
    $data, true);
$html = $this->load->view('pdf_notif', $data,
    true);
$this->load->library('Pdf');
$pdf = new Pdf('P', 'mm', 'A4', true, 'UTF-8',
    false);
$pdf->SetTitle('Pdf_Example');
$pdf->SetHeaderMargin(30);
$pdf->SetTopMargin(20);
$pdf->setFooterMargin(20);
$pdf->SetAutoPageBreak(true, PDF_MARGIN_BOTTOM
    );
$pdf->SetAuthor('Author');
$pdf->SetDisplayMode('real', 'default');
$pdf->AddPage();
$pdf->writeHTML($header, true, false, true,
    false, '');
$pdf->writeHTML($html, true, false, true,
    false, '');
$pdf->SetFont('helvetica', 'N', 10);
$pdf->Output($filename.date('Y-m-d').'.pdf', '
    I');
}
public function getSalesProgressReport(){
if(isset($_SESSION['username']) && $this->
    user_model->check_match_role($_SESSION['
    role'], 'CEO')){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
        $_SESSION['user_id'], "unread", 5);
$this->load->model('transaction_model');
$data['title'] = "Sales_Progress_Report";

```

```

$data['year'] = date("Y");
$data['month_progress'] = $this->
    transaction_model->
    retrieve_month_progress($data['year']);
$data['year_progress'] = $this->
    transaction_model->retrieve_year_progress
    ();
$this->load->view('header', $data);
$this->load->view('sales_progress', $data);
$this->load->view('footer');
}else{
    redirect('/');
}
}
?>

```

Warehouse Controller

```

<?php
class Warehouse extends CI_Controller{
function __construct() {
parent::__construct();
$this->load->helper('url');
$this->load->library('session');
$this->load->model('user_model');
$this->load->model('notification_model');
}
public function updateWarehouseStocks(){
if(isset($_SESSION['username']) && $this->
    user_model->check_match_role($_SESSION['
    role'], 'Warehouse_Personnel')){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
        $_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$this->load->model('product_model');
$data['title'] = 'Warehouse';
$quantity = $this->product_model->
    retrieve_quantity_spec(1);
$data['quantity'] = $quantity;
$data['id'] = 1;
$data['name'] = 'Warehouse';
$data['headers'] = array('Code', 'Name', '
    Variant', 'SRP', 'Quantity_Remaining_in_
    Warehouse', 'Update_Stocks');
$quantity_code = array();
for($x=0; $x < count($quantity); $x++){
    array_push($quantity_code, $quantity[$x]['code
        ']);
}
$data['products'] = $this->product_model->
    retrieve_quantity_none($quantity_code);
$this->load->view('header', $data);
$this->load->view('update_warehouse_stocks',
    $data);
$this->load->view('footer');
}else{
    redirect('/');
}
}
}

```

```

public function saveWarehouseStocks(){
if(isset($_SESSION['username']) && $this->
    user_model->check_match_role($_SESSION['
        role'], 'Warehouse_Personnel')){
$data['notifications'] = $this->
    notification_model->retrieve_all_notifs(
        $_SESSION['user_id'], "unread", 5);
$this->load->helper('form');
$this->load->model('product_model');
$data['title'] = 'Warehouse';
$data['process'] = 'Warehouse_Stock_Updates';
$this->product_model->update_stocks(1,
    $_SESSION['user_id']);
$this->load->view('header', $data);
$this->load->view('success', $data);
$this->load->view('footer');
}else{
redirect('/');
}
}
}
?>

```

Kiosk Model

```

<?php
if ( ! defined('BASEPATH')) exit('No direct_
    script_access_allowed');
class Kiosk_model extends CI_Model {
public function __construct(){
$this->load->database();
}
public function set_kiosk_data(){
$this->load->helper('url');
$skiosk_data = array( // $data is an
    associative array containing the database
    row information to be inserted
    'kiosk_name' => $this->input->post('kiosk_name
        '),
    'location_id' => $this->input->post('
        kiosk_location'),
);
$this->db->insert('kiosk_details', $skiosk_data
);
$skiosk_id = $this->retrieve_latest_record();
$assigned_personnel = $this->input->post('
    sales_personnel');
for($x = 0; $x < count($assigned_personnel);
    $x++){
$this->db->delete('kiosk_assignment', array('
    user_id' => $assigned_personnel[$x]));
}
for($x = 0; $x < count($assigned_personnel);
    $x++){
$skiosk_assignment = array(
    'kiosk_id' => $skiosk_id[0]['kiosk_id'],
    'user_id' => $assigned_personnel[$x]
);
$this->db->insert('kiosk_assignment',
    $skiosk_assignment);
}
$this->db->select('code');
$q = $this->db->get('product');
$codes = $q->result_array();
for($x = 0; $x < count($codes); $x++){
if($this->input->post(''. $codes[$x]['code']) >
    0){
$product_value = array(
    'kiosk_id' => $kiosk_id[0]['kiosk_id'],
    'code' => $codes[$x]['code'],
    'quantity' => $this->input->post(''. $codes[$x]
        )['code'])
);
$this->db->insert('kiosk_products',
    $product_value);
}
}
public function retrieve_latest_record(){
$this->db->select_max('kiosk_id');
$q = $this->db->get('kiosk_details');
$latest_record = $q->result_array();
return $latest_record;
}
public function addLocation(){
$location = array('location_name' => $this->
    input->post('kiosk_location'));
$this->db->insert('location', $location);
}
public function update_location($id){
$location = array('location_name' => $this->
    input->post('kiosk_location'));
$this->db->where('location_id', $id);
$this->db->update('location', $location);
}
public function getLocation(){
$this->db->select('*');
$q = $this->db->get('location');
$loc = $q->result_array();
return $loc;
}
public function retrieve_spec_loc($id){
$this->db->select('*');
$this->db->where('location_id', $id);
$q = $this->db->get('location');
$loc = $q->result_array();
return $loc;
}
public function retrieve_kiosks($setting){
$this->db->select('*');
$q = $this->db->get('kiosk_details');
$kiosks = $q->result_array();
if($setting == "full"){
$kiosk_full = array();
for($x = 0; $x < count($kiosks); $x++){
$kiosk_det['kiosk_id'] = $kiosks[$x]['kiosk_id
        '];
$kiosk_det['kiosk_name'] = $kiosks[$x]['
        kiosk_name'];
$assignments = $this->retrieve_assignments(

```

```

        $kiosks[$x]['kiosk_id']);
if (!empty($assignments)){
    $kiosk_det['assignment'] = $this->
        retrieve_names($assignments);
} else {
    $kiosk_det['assignment'] = array();
}
array_push($kiosk_full, $kiosk_det);
}
return $kiosk_full;
}
return $kiosks;
}

public function retrieve_kiosk_assigned($id){
    $query = "SELECT _kiosk_details.kiosk_name AS _
        kiosk_name, _kiosk_assignment.kiosk_id AS _
        kiosk_id FROM _kiosk_assignment INNER JOIN
        _kiosk_details ON _kiosk_details.kiosk_id =
        _kiosk_assignment.kiosk_id WHERE _
        kiosk_assignment.user_id = ?";
    $q = $this->db->query($query, array($id));
    return $q->result_array();
}

public function retrieve_assignments($id){
    $this->db->select('user_id');
    $this->db->where('kiosk_id', $id);
    $q = $this->db->get('kiosk_assignment');
    $assignment = $q->result_array();
    return $assignment;
}

public function retrieve_kiosk_names($kiosk_id
    ){
    $this->db->select('kiosk_name, _kiosk_id');
    $this->db->where_in('kiosk_id', $kiosk_id);
    $q = $this->db->get('kiosk_details');
    $kiosk_info = $q->result_array();
    return $kiosk_info;
}

public function retrieve_names($assignments){
    $assign_array = array();
    for($x = 0; $x < count($assignments); $x++){
        array_push($assign_array, $assignments[$x][
            'user_id']);
    }
    $this->db->select('first_name, _last_name, _
        role_id');
    $this->db->where_in('user_id', $assign_array);
    $q = $this->db->get('user');
    $assignment = $q->result_array();
    return $assignment;
}

public function retrieve_spec_kiosk($kiosk_id)
    {
    $this->db->select('*');
    $this->db->where('kiosk_id', $kiosk_id);
    $q = $this->db->get('kiosk_details');
    $kiosks = $q->result_array();
    $kiosk_det['kiosk_id'] = $kiosks[0]['kiosk_id'];
    $kiosk_det['kiosk_name'] = $kiosks[0]['
        kiosk_name'];
    $kiosk_det['location_id'] = $kiosks[0][
        'location_id'];
    return $kiosk_det;
}

public function update_data(){
    $kiosk_name = array(
        'kiosk_id' => $this->input->post('kiosk_id'),
        'kiosk_name' => $this->input->post('kiosk_name
            '),
        'location_id' => $this->input->post('
            kiosk_location'),
    );
    $this->db->where('kiosk_id', $this->input->
        post('kiosk_id'));
    $this->db->update('kiosk_details', $kiosk_name
        );
    $this->db->delete('kiosk_assignment', array('
        kiosk_id' => $this->input->post('kiosk_id
            ')));
    $assigned_personnel = $this->input->post('
        sales_personnel');
    for($x = 0; $x < count($assigned_personnel);
        $x++){
    $this->db->delete('kiosk_assignment', array('
        user_id' => $assigned_personnel[$x]));
    }
    for($x = 0; $x < count($assigned_personnel);
        $x++){
    $kiosk_assignment = array(
        'kiosk_id' => $this->input->post('kiosk_id'),
        'user_id' => $assigned_personnel[$x]
        );
    $this->db->insert('kiosk_assignment',
        $kiosk_assignment);
    }
}

public function retrieve_kiosks_not_zero(){
    $query = "SELECT DISTINCT _kiosk_transaction.
        kiosk_id, _kiosk_details.kiosk_name, _
        kiosk_details.location_id FROM _
        kiosk_transaction INNER JOIN _
        kiosk_details ON _kiosk_transaction.
        kiosk_id = _kiosk_details.kiosk_id WHERE _
        kiosk_transaction.transaction_type = 1";
    $q = $this->db->query($query);
    return $q->result_array();
}
}
}
?>
}

Notification Model

<?php
if (! defined('BASEPATH')) exit('No direct
    script access allowed');
class Notification_model extends CI_Model {
    public function __construct(){
        $this->load->database();
    }
}

```

```

public function set_notification($type, $id,
    $location, $notif_reference,
    $notif_comment){
    $this->load->helper('url');
    $this->db->select('notif_type');
    $this->db->where('notif_name', $type);
    $q = $this->db->get('notification_details');
    $notif_type = $q->result_array();
    $notif_data = array( // $data is an
        associative array containing the database
        row information to be inserted
    'notif_type' => $notif_type[0]['notif_type'],
    'notif_from' => $id,
    'notif_location' => $location,
    'notif_reference' => $notif_reference,
    'notif_comment' => $notif_comment,
    'notif_approved' => 'F',
    'notif_approved_by' => 0
    );
    $this->db->insert('notification', $notif_data)
    ;
}

public function update_confirmation($notif_id,
    $user_id){
    $update_array = array(
    'notif_approved' => 'T',
    'notif_approved_by' => $user_id
    );
    $this->db->where('notif_id', $notif_id);
    $this->db->update('notification',
        $update_array);
}

public function set_notification_products(
    $products){
    $this->db->select_max('notif_id');
    $q = $this->db->get('notification');
    $max_id = $q->result_array();
    for($x=0; $x < count($products); $x++){
    $product_array = array(
    'notif_id' => $max_id[0]['notif_id'],
    'code' => $products[$x]['code'],
    'quantity' => $products[$x]['quantity']
    );
    $this->db->insert('notification_product',
        $product_array);
    }
}

public function set_recipients($recipients){
    $this->db->select_max('notif_id');
    $q = $this->db->get('notification');
    $max_id = $q->result_array();
    for($x=0; $x < count($recipients); $x++){
    $product_array = array(
    'notif_id' => $max_id[0]['notif_id'],
    'user_id' => $recipients[$x]['user_id'],
    'notif_read' => 'F'
    );
    $this->db->insert('notification_recipients',
        $product_array);
    }
}

}

public function retrieve_specific_notification
    ($id){
    $query= "SELECT_notification.notif_comment_as_
        comment,_notification.notif_reference_as_
        notif_reference,_notification.notif_id_as_
        _notif_id,_notification.notif_type_as_
        notif_type,_notification.notif_location_
        as_loc,_notification.notif_approved_as_
        approved,_notification.notif_approved_by_
        as_approved_by,_notification.timestamp_as_
        _notif_timestamp,_user.first_name_as_
        first_name,_user.last_name_as_last_name_,
        kiosk_details.kiosk_name_as_notif_location_
        FROM_notification,_user,_kiosk_details_
        WHERE_notification.notif_id=?_AND_user.
        user_id=?_notification.notif_from_AND
        kiosk_details.kiosk_id=?_notification.
        notif_location";
    $q = $this->db->query($query, array($id));
    $notifs = $q->result_array();
    return $notifs;
}

public function retrieve_products($id){
    $query="SELECT_notification_product.approved_
        as_ceo_approval,_notification_product.
        code_as_code,_notification_product.
        quantity_as_quantity,_product.identifier_
        as_identifier,_product.name_as_name,_
        product.variant_as_variant,
        notification_product.quantity*_product.srp_as
        _amount_from_notification_product,_
        product_WHERE
        notification_product.code=?_product.code_AND_
        notification_product.notif_id=?";
    $q = $this->db->query($query, array($id));
    $products = $q->result_array();
    return $products;
}

public function retrieve_product_details($id){
    $query="SELECT_notification_product.code_as_
        code,_kiosk_products.threshold_as_
        threshold,_kiosk_products.quantity_as_
        remaining_quantity_from_
        notification_product,_notification,_
        kiosk_products_WHERE
        notification.notif_id=?_notification_product.
        notif_id_AND_notification.notif_location_
        =_kiosk_products.kiosk_id_AND_
        kiosk_products.code=?_
        notification_product.code_AND_
        notification_product.notif_id=?";
    $q = $this->db->query($query, array($id));
    $products = $q->result_array();
    return $products;
}

public function retrieve_product_details_ref(
    $id){
    $query="SELECT_notification_product.code_as_
        code,_kiosk_products.threshold_as_

```

```

        threshold, _kiosk_products.quantity_as_
        remaining_quantity_from_
        notification_product, _notification, _
        kiosk_products_WHERE
notification.notif_reference_=_
        notification_product.notif_id_AND_
        notification.notif_location_=_
        kiosk_products.kiosk_id_AND_
        kiosk_products.code_=_
        notification_product.code_AND_
        notification.notif_id_=_?";
$q = $this->db->query($query, array($id));
$products = $q->result_array();
return $products;
}

public function update_read($notif_id,
        $user_id){
    $this->db->set('notif_read', "T", FALSE);
    $this->db->where('notif_id', $notif_id);
    $this->db->where('user_id', $user_id);
    $this->db->update('notification_recipients');
}

public function create_notif($kiosk_id,
        $notif_sender, $type, $eta, $reference){
    $this->db->select('code');
    $this->db->where('kiosk_id', $kiosk_id);
    $q = $this->db->get('kiosk_products');
    $codes = $q->result_array();
    $product_notification = array();
    for($x = 0; $x < count($codes); $x++){
        if($this->input->post(''.$codes[$x]['code']) >
            0){
            $value = array('code' => $codes[$x]['code'], '
                quantity' => $this->input->post(''.$codes
                    [$x]['code']));
            array_push($product_notification, $value);
        }
    }
    $code_array = array_column($codes, 'code');
    if(count($code_array) == 0){
        $code_array = array(-1);
    }
    $this->db->select('code');
    $this->db->where_not_in('code', $code_array);
    if($kiosk_id == 1){
        $q = $this->db->get('product');
    }else{
        $this->db->where('kiosk_id', 1);
        $q = $this->db->get('kiosk_products');
    }
    $code_new = $q->result_array();
    for($x = 0; $x < count($code_new); $x++){
        if($this->input->post(''.$code_new[$x]['code']
            )) > 0){
            $value = array('code' => $code_new[$x]['code']
                ], 'quantity' => $this->input->post(''.
                    $code_new[$x]['code']));
            array_push($product_notification, $value);
        }
    }
}

$query = "SELECT_user.user_id_FROM_user_INNER_
        JOIN_role_ON_role.role_id_=_user.role_id_
        WHERE_role.role_name_=_'CEO'";
$q = $this->db->query($query);
$recipients = $q->result_array();
$this->notification_model->set_notification(
        $type, $notif_sender, $kiosk_id,
        $reference, '');
$this->notification_model->
        set_notification_products(
            $product_notification);
$this->notification_model->set_recipients(
        $recipients);
if(strtotime($eta) != strtotime('0000-00-00')){
    $this->set_eta($eta);
}
}

public function set_eta($eta){
    $this->db->select_max('notif_id');
    $q = $this->db->get('notification');
    $max_id = $q->result_array();
    $eta_array = array(
        'notif_id' => $max_id[0]['notif_id'],
        'notif_eta' => $eta
    );
    $this->db->insert('notification_eta',
        $eta_array);
}

public function retrieve_possible_recipients(
        $type){
    $query = "SELECT_user.user_id_FROM_user_INNER_
        JOIN_role_ON_role.role_id_=_user.role_id_
        WHERE_role.role_name_=_?";
    $q = $this->db->query($query, array($type));
    $recipients = $q->result_array();
    return $recipients;
}

public function get_kiosk_id($notif_id){
    $this->db->select('notif_location');
    $this->db->where('notif_id', $notif_id);
    $q = $this->db->get('notification');
    $kiosk_id = $q->result_array();
    return $kiosk_id[0]['notif_location'];
}

public function get_notif_type($type){
    $this->db->select('notif_type');
    $this->db->where('notif_name', $type);
    $q = $this->db->get('notification_details');
    $type = $q->result_array();
    return $type[0]['notif_type'];
}

public function get_type($notif_id){
    $this->db->select('notif_type');
    $this->db->where('notif_id', $notif_id);
    $q = $this->db->get('notification');
    $type = $q->result_array();
    return $type[0]['notif_type'];
}

public function check_stock_alert($id){
    $query = "SELECT_kiosk_products.code,_

```

```

        kiosk_products.quantity ,
CASE_WHEN_kiosk_products.quantity <=
        kiosk_products.threshold
THEN_true
ELSE_false_END_as_low_stock
FROM_kiosk_products_WHERE_kiosk_id=?";
$q = $this->db->query($query , array($id));
return $q->result_array();
}
public function check_warehouse_stock_alert(){
$this->db->select('kiosk.threshold');
$this->db->where('kiosk.id', 1);
$q = $this->db->get('kiosk.details');
$threshold = $q->row_array();
$query = "SELECT_SUM(kiosk_products.quantity_*
        _product.srp)_as_onhand_FROM_
        kiosk_products_INNER_JOIN_product_on_
        kiosk_products.code=_product.code_WHERE_
        kiosk_products.kiosk_id=?";
$q = $this->db->query($query);
$amount = $q->row_array();
if($amount['onhand'] < $threshold['
        kiosk.threshold']){
return true;
}else{
return false;
}
}
public function retrieve_all_notifs($id, $type
        , $limit){
$query = "SELECT_notification.notif_id_as_
        notif_id ,_notification.notif_type_as_
        notif_type ,_notification.notif_from_as_
        notif_from ,_notification.notif_location_
        as_notif_location_id ,_notification.
        timestamp_as_notif_timestamp ,_user.
        first_name_as_first_name ,_user.last_name_
        as_last_name ,_kiosk_details.kiosk_name_as_
        _notif_location ,_notification.recipients.
        notif_read_as_notif_read
FROM_notification ,_notification.recipients ,_
        kiosk_details ,_user
WHERE_notification.recipients.notif_id=?_
        notification.notif_id_AND_
        notification.recipients.user_id=?_AND_
        kiosk_details.kiosk_id=?_notif_location_
        AND_user.user_id=?_notif_from";
if(strcmp($type, "unread") == 0){
$query .= "_AND_notification.recipients.
        notif_read=?'F'";
}
$query .= "_ORDER_BY_notif_timestamp_DESC_
        LIMIT_?";
$q = $this->db->query($query , array($id,
        $limit));
$notifs = $q->result_array();
return $notifs;
}
public function set_request_products(){
$query = "SELECT_MAX(notif_id) ,_notif_location
        _FROM_notification";
$q = $this->db->query($query);
$notif = $q->result_array();
$query = "SELECT_DISTINCT_code_FROM_
        kiosk_products_WHERE_kiosk_id=?";
$q = $this->db->query($query , array($notif[0][
        'notif.location']));
$products = $q->result_array();
$product_notification = array();
for($x = 0; $x < count($products); $x++){
if($this->input->post(''. $products[$x][ 'code'
        ]) > 0){
$value = array('code' => $products[$x][ 'code'
        ], 'quantity' => $this->input->post(''.
        $products[$x][ 'code' ]));
array_push($product_notification , $value);
}
}
$this->notification_model->
        set_notification_products(
        $product_notification);
}
public function retrieve_referenced_notif($id)
        {
$this->db->select('notif.id');
$this->db->where('notif.reference', $id);
$q = $this->db->get('notification');
$ref = $q->row_array();
return $ref['notif.id'];
}
public function retrieve_eta($notif_id){
$query = "SELECT_notification.notif_reference_
        as_ref ,_notification_details.notif_name_
        as_name_FROM_notification_INNER_JOIN_
        notification_details_ON_notification.
        notif_type=?_notification_details.
        notif_type_WHERE_notification.notif_id=?_
        ?";
$q = $this->db->query($query , array($notif_id)
        );
$notif = $q->row_array();
$this->db->select('notif.eta');
if($notif['name'] == "Delivery"){
$this->db->where('notif.id', $notif.id);
}else if($notif['name'] == "Delivery_
        Confirmation"){
$this->db->where('notif.id', $notif['ref']);
}
$q = $this->db->get("notification.eta");
$eta = $q->row_array();
return $eta['notif.eta'];
}
public function retrieve_low_stocks($id){
$query = "SELECT_notification_product.approved_
        _as_ceo_approval ,_notification_product.
        code_as_code ,_notification_product.
        quantity_as_quantity ,product.identifier_
        as_identifier ,_product.name_as_name ,_
        product.variant_as_variant ,_
notification_product.quantity_*_product.srp_as

```

```

        _amount, _kiosk_products.threshold_from_
notification_product, _product, _
kiosk_products, _notification_WHERE
notification_product.code=_product.code_AND_
notification.notif_id=_
notification_product.notif_id_AND_
kiosk_products.code=_
notification_product.code_AND_
kiosk_products.kiosk_id=_notification.
notif_location_AND_notification_product.
notif_id=_?_GROUP_BY_
notification_product.notif_id";
$q = $this->db->query($query, array($id));
return $q->result_array();
}
public function retrieve_reference($id){
$this->db->select('notif_reference');
$this->db->where('notif_id', $id);
$q = $this->db->get('notification');
$rref = $q->row_array();
return $rref['notif_reference'];
}
public function update_product_approved(
    $notif_id, $confirmed_codes){
$query = "SELECT_code_FROM_
notification_product_WHERE_notif_id=_?";
$q = $this->db->query($query, array($notif_id)
);
$transaction = $q->result_array();
for($x = 0; $x < count($transaction); $x++){
if(!in_array($transaction[$x]['code'],
    $confirmed_codes)){
$update_array = array(
    'approved' => 'F',
);
$this->db->where('notif_id', $notif_id);
$this->db->where('code', $transaction[$x][
    'code']);
$this->db->update('notification_product',
    $update_array);
}
}
}
public function retrieve_transaction_code(
    $notif_id){
$this->db->select('notif_id');
$this->db->where('notif_reference', $notif_id)
;
$q = $this->db->get('notification');
$rref_1 = $q -> result_array();
$this->db->select('notif_id');
if(count($rref_1 > 1)){
$this->db->where_in('notif_reference',
    array_column($rref_1, 'notif_id'));
}else{
$this->db->where('notif_reference', $rref_1);
}
$q = $this->db->get('notification');
$rref_2 = $q -> result_array();
return $rref_2;
}

```

Product Model

```

<?php
if ( ! defined('BASEPATH')) exit('No direct_
script_access_allowed');
class Product_model extends CI_Model {
public function __construct(){
$this->load->database();
}
public function set_product_data(){
$this->load->helper('url');
$this->db->select('name');
$this->db->where('code', $this->input->post('
prod_code'));
$q = $this->db->get('product');
$duplicate = $q->result_array();
if(count($duplicate) > 0){
return 0;
}
$prod_data = array( // $data1 is an
    associative array containing the database
    row information to be inserted
    'name' => $this->input->post('prod_name'),
    'variant' => $this->input->post('prod_variant'
    ),
    'code' => $this->input->post('prod_code'),
    'srp' => $this->input->post('prod_srp'),
    'identifier' => $this->get_identifier_code(
        $this->input->post('prod_name'), $this->
        input->post('prod_variant')
    );
$this->db->insert('product', $prod_data);
return 1;
}
public function update_product_data(){
$prod_data = array( // $data1 is an
    associative array containing the database
    row information to be inserted
    'name' => $this->input->post('prod_name'),
    'variant' => $this->input->post('prod_variant'
    ),
    'srp' => $this->input->post('prod_srp'),
    'identifier' => $this->get_identifier_code(
        $this->input->post('prod_name'), $this->
        input->post('prod_variant')
    );
$this->db->where('code', $this->input->post('
prod_code'));
$this->db->update('product', $prod_data);
return 1;
}
public function retrieve_products(){
$query = $this->db->query("SELECT_*_FROM_
product;");
$product = $query->result_array();
return $product;
}
}

```

```

}
public function retrieve_product_name(
    $product_codes){
    $this->db->select('code, _name, _variant, _
        identifier');
    $this->db->where_in('code', $product_codes);
    $q = $this->db->get('product');
    $product = $q->result_array();
    return $product;
}
public function retrieve_spec_prod($code){
    $query = $this->db->query("SELECT_*_FROM_
        product_WHERE_code=".$code.");");
    $product = $query->result_array();
    return $product;
}
public function retrieve_quantity_spec($id){
    $query = $this->db->query("SELECT_product.name
        , _product.variant, _product.code, _product.
        identifier, _product.srp, _kiosk_products.
        quantity, _kiosk_products.kiosk_id, _
        kiosk_products.threshold_FROM_product_
        INNER_JOIN_kiosk_products_ON_product.code
        =kiosk_products.code_WHERE_kiosk_products
        .kiosk_id=".$id.");");
    $quantity = $query->result_array();
    return $quantity;
}
public function retrieve_quantity_none($codes)
    {
    if(count($codes) == 0){
        $codes = array(-1);
    }
    $this->db->select('name, _variant, _code, _
        identifier, _srp');
    $this->db->where_not_in('code', $codes);
    $q = $this->db->get('product');
    $assignment = $q->result_array();
    return $assignment;
}
public function update_stocks($notif_id,
    $confirmed_codes){
    $query = "SELECT_notif_location_FROM_
        notification_WHERE_notif_id_=_?";
    $q = $this->db->query($query, array($notif_id)
    );
    $kiosk = $q->result_array();
    $query = "SELECT_code, _quantity_FROM_
        notification_product_WHERE_notif_id_=_?";
    $q = $this->db->query($query, array($notif_id)
    );
    $transaction = $q->result_array();
    $this->db->select('transaction_type');
    $this->db->where('transaction_name', 'delivery
        ');
    $q = $this->db->get('transaction_details');
    $type = $q->result_array();
    $this->db->select('code');
    $this->db->where('kiosk_id', $kiosk[0][ '
        notif_location' ]);
    $q = $this->db->get('kiosk_products');
    $codes = $q->result_array();
    $q = $this->db->get('kiosk_products');
    $codes = $q->result_array();
    for($x = 0; $x < count($transaction); $x++){
        if(in_array($transaction[$x][ 'code' ],
            $confirmed_codes)){ //check if code is
                accepted by CEO
            if(in_array($transaction[$x][ 'code' ],
                array_column($codes, 'code' ))){
                $this->db->set('quantity', 'quantity+'.
                    $transaction[$x][ 'quantity' ], FALSE);
                $this->db->where('kiosk_id', $kiosk[0][ '
                    notif_location' ]);
                $this->db->where('code', $transaction[$x][ '
                    code' ]);
                $this->db->update('kiosk_products');
            }else{
                $quantity = array(
                    'kiosk_id' => $kiosk[0][ 'notif_location' ],
                    'code' => $transaction[$x][ 'code' ],
                    'quantity' => $transaction[$x][ 'quantity' ],
                    'threshold' => 0
                );
                $this->db->insert('kiosk_products', $quantity)
                    ;
            }
            $transaction_array = array(
                'kiosk_id' => $kiosk[0][ 'notif_location' ],
                'code' => $transaction[$x][ 'code' ],
                'quantity' => $transaction[$x][ 'quantity' ],
                'transaction_type' => $type[0][ '
                    transaction_type' ]
            );
            $this->db->insert('kiosk_transaction',
                $transaction_array);
        }
    }
    return $transaction;
}
public function update_pullout_stocks(
    $notif_id, $confirmed_codes){
    $query = "SELECT_notif_location_FROM_
        notification_WHERE_notif_id_=_?";
    $q = $this->db->query($query, array($notif_id)
    );
    $kiosk = $q->result_array();
    $query = "SELECT_code, _quantity_FROM_
        notification_product_WHERE_notif_id_=_?";
    $q = $this->db->query($query, array($notif_id)
    );
    $transaction = $q->result_array();
    $this->db->select('transaction_type');
    $this->db->where('transaction_name', 'pullout'
        );
    $q = $this->db->get('transaction_details');
    $type = $q->result_array();
    $this->db->select('code');
    $this->db->where('kiosk_id', $kiosk[0][ '
        notif_location' ]);
    $q = $this->db->get('kiosk_products');
    $codes = $q->result_array();

```



```

        retrieve_average($startDate, $endDate, "
        month");
    }
    if(in_array(3, $filters)){
        $deliveries = $this->transaction_model->
            retrieve_product_quantity($products,
            $startDate, $endDate, 2);
    }
    if(in_array(4, $filters)){
        $onhand = $this->transaction_model->
            retrieve_products_onhand($products);
    }
    if(in_array(6, $filters)){
        $perc = $this->transaction_model->
            retrieve_percentage($startDate, $endDate)
            ;
    }
    if(in_array(7, $filters)){
        $daily_ave = $this->transaction_model->
            retrieve_average($startDate, $endDate, "
            day");
    }
    if(in_array(8, $filters)){
        $year_ave = $this->transaction_model->
            retrieve_average($startDate, $endDate, "
            year");
    }
    $report = array();
    for($x=0; $x<count($products); $x++){
        $value = array('code' => $products[$x]);
        if(isset($product_names)){
            $key = array_search($products[$x],
                array_column($product_names, 'code'));
            $value['product_name'] = $product_names[$key][
                'name'];
            $value['product_variant'] = $product_names[
                $key]['variant'];
            $value['identifier'] = $product_names[$key][
                'identifier'];
        }
        if(isset($total)){
            $key = array_search($products[$x],
                array_column($total, 'code'));
            if($key === false){
                $value['quantity_total'] = 0;
                $value['amount_total'] = 0;
            }else{
                $value['quantity_total'] = $total[$key][
                    'product_quantity_total'];
                $value['amount_total'] = $total[$key][
                    'product_amount_total'];
            }
        }
        if(isset($month_averages)){
            $key = array_search($products[$x],
                array_column($month_averages, 'code'));
            if($key === false){
                $value['monthly_average_quantity'] = 0;
                $value['monthly_average_amount'] = 0;
            }else{
                $value['monthly_average_quantity'] = $total[
                    $key]['product_quantity_total']/
                    $month_averages;
                $value['monthly_average_amount'] = $total[
                    $key][
                    'product_amount_total']/
                    $month_averages
                    ;
            }
        }
        if(isset($deliveries)){
            $key = array_search($products[$x],
                array_column($deliveries, 'code'));
            if($key === false){
                $value['delivery_quantity_total'] = 0;
                $value['delivery_amount_total'] = 0;
            }else{
                $value['delivery_quantity_total'] =
                    $deliveries[$key][
                    'product_quantity_total'];
                $value['delivery_amount_total'] = $deliveries[
                    $key][
                    'product_amount_total'];
            }
        }
        if(isset($onhand)){
            $key = array_search($products[$x],
                array_column($onhand, 'code'));
            if($key === false){
                $value['onhand_quantity_total'] = 0;
                $value['onhand_amount_total'] = 0;
            }else{
                $value['onhand_quantity_total'] = $onhand[
                    $key][
                    'onhand_quantity'];
                $value['onhand_amount_total'] = $onhand[
                    $key][
                    'onhand_amount'];
            }
        }
        if(isset($perc)){
            $key = array_search($products[$x],
                array_column($perc, 'code'));
            if($key === false){
                $value['perc_quantity_total'] = 0;
                $value['perc_amount_total'] = 0;
            }else{
                $value['perc_quantity_total'] = ($total[
                    $key][
                    'product_quantity_total']/
                    $perc[0][
                    'quantity']) * 100;
                $value['perc_amount_total'] = ($total[
                    $key][
                    'product_amount_total']/
                    $perc[0][
                    'amount']) * 100;
            }
        }
        if(isset($daily_ave)){
            $key = array_search($products[$x],
                array_column($daily_ave, 'code'));
            if($key === false){
                $value['daily_quantity_total'] = 0;
                $value['daily_amount_total'] = 0;
            }else{
                $value['daily_quantity_total'] = $total[
                    $key][
                    'product_quantity_total']/
                    $daily_ave;
                $value['daily_amount_total'] = $total[
                    $key][

```

```

        product_amount_total']/ $daily_ave;
    }
}
if (isset($year_ave)){
$key = array_search($products[$x],
    array_column($total, 'code'));
if ($key == false){
$value['year_quantity_total'] = 0;
$value['year_amount_total'] = 0;
}else{
$value['year_quantity_total'] = $total[$key]['
    product_quantity_total']/ $year_ave;
$value['year_amount_total'] = $total[$key]['
    product_amount_total']/ $year_ave;
}
}
if (!( $value['quantity_total'] == 0 && $value['
    delivery_quantity_total'] == 0 && $value[
    'onhand_quantity_total'] == 0))
array_push($report, $value);
}
return $report;
}

public function retrieve_product_quantity(
    $products, $startDate, $endDate,
    $transaction_type){
if (count($products) < 1 || !isset($startDate)
    || !isset($endDate)){
return array();
}
$sales = array();
$startDate .= "_00:00:00";
$endDate   .= "_23:59:59";
$query= "SELECT_kiosk_transaction.code_as_code
    ,_SUM(kiosk_transaction.quantity)_as_
    product_quantity_total ,_SUM(
    kiosk_transaction.quantity*product.srp)_
    as_product_amount_total_FROM_
    kiosk_transaction INNER JOIN product_ON_
    product.code=kiosk_transaction.code
WHERE_kiosk_transaction.code_IN_?_AND_
    timestamp_>=?_AND_timestamp_<=?_AND_
    kiosk_transaction.transaction_type_=?_
GROUP_BY_kiosk_transaction.code";
$q = $this->db->query($query, array($products,
    $startDate, $endDate, $transaction_type)
    );
$total_quantity = $q->result_array();
return $total_quantity;
}

public function retrieve_average($startDate,
    $endDate, $average_formula){
if ($average_formula == "year"){
$formula = 60*60*24*30*12;
}else if ($average_formula == "month"){
$formula = 60*60*24*30;
}else{
$formula = 60*60*24;
}
$difference = floor((strtotime($endDate) -
    strtotime($startDate)) / $formula) + 1;
return $difference;
}

public function retrieve_products_onhand(
    $products){
$on_hand = array();
$query= "SELECT_kiosk_products.code_as_code ,_
    SUM(kiosk_products.quantity)_as_
    onhand_quantity ,_SUM(kiosk_products.
    quantity*product.srp)_as_onhand_amount_
FROM_kiosk_products INNER JOIN product_ON_
    product.code=kiosk_products.code
WHERE_kiosk_products.code_IN_?_GROUP_BY_code";
;
$q = $this->db->query($query, array($products)
    );
$total = $q->result_array();
return $total;
}

public function retrieve_percentage($startDate
    , $endDate){
$startDate .= "_00:00:00";
$endDate   .= "_23:59:59";
$query= "SELECT_SUM(kiosk_transaction.quantity
    )_as_quantity ,_SUM(kiosk_transaction.
    quantity*product.srp)_as_amount_FROM_
    kiosk_transaction INNER JOIN product_ON_
    product.code=kiosk_transaction.code
WHERE_timestamp_>=?_AND_timestamp_<=?_AND_
    kiosk_transaction.transaction_type_=?";
$q = $this->db->query($query, array($startDate
    , $endDate));
$total = $q->result_array();
return $total;
}

public function retrieve_quantity($kiosks,
    $startDate, $endDate, $transaction_type){
if (count($kiosks) < 1 || !isset($startDate) ||
    !isset($endDate)){
return array();
}
$sales = array();
$startDate .= "_00:00:00";
$endDate   .= "_23:59:59";
$query= "SELECT_kiosk_transaction.kiosk_id_as_
    kiosk_id ,_SUM(kiosk_transaction.quantity)
    _as_kiosk_quantity_total ,_SUM(
    kiosk_transaction.quantity*product.srp)_
    as_kiosk_amount_total_FROM_
    kiosk_transaction INNER JOIN product_ON_
    product.code=kiosk_transaction.code
WHERE_kiosk_transaction.kiosk_id_IN_?_AND_
    timestamp_>=?_AND_timestamp_<=?_AND_
    kiosk_transaction.transaction_type_=?_
GROUP_BY_kiosk_transaction.kiosk_id";
$q = $this->db->query($query, array($kiosks,
    $startDate, $endDate, $transaction_type)
    );
;
$total_quantity = $q->result_array();
return $total_quantity;
}

```

```

}
public function retrieve_onhand($kiosks){
$on_hand = array();
$query= "SELECT_kiosk_products.kiosk_id_as_
kiosk_id,_SUM(kiosk_products.quantity)_as_
_onhand_quantity,_SUM(kiosk_products.
quantity*product.srp)_as_onhand_amount_
FROM_kiosk_products_INNER_JOIN_product_ON_
_product.code=kiosk_products.code
WHERE_kiosk_products.kiosk_id_IN_?_GROUP_BY_
kiosk_id";
$q = $this->db->query($query, array($kiosks));
$total = $q->result_array();
return $total;
}

public function retrieve_product_breakdown($id
,$startDate,$endDate){
$startDate .= "_00:00:00";
$endDate .= "_23:59:59";
$query = "SELECT_DISTINCT_kiosk_transaction.
code_FROM_kiosk_transaction_WHERE_
kiosk_id=_?_AND_timestamp_>=_?_AND_
timestamp_<=_?";
$q = $this->db->query($query, array($id,
$startDate,$endDate));
$codes = $q->result_array();
$query2 = "SELECT_code_FROM_kiosk_products_
WHERE_kiosk_id=_?";
$q = $this->db->query($query2, array($id));
$codes2 = $q->result_array();
for($x = 0; $x < count($codes2); $x++){
if(!in_array($codes2[$x]['code'], array_column
($codes, 'code'))){
array_push($codes, $codes2[$x]);
}
}
$breakdown = array();
for($x = 0; $x < count($codes); $x++){
$query= "SELECT_SUM(kiosk_transaction.quantity
)_as_quantity,_product.name_as_name,_
product.variant_as_variant,_SUM(
kiosk_transaction.quantity*product.srp)_
as_amount_FROM_kiosk_transaction_INNER_
JOIN_product_ON_product.code=
kiosk_transaction.code
WHERE_kiosk_id=_?_AND_kiosk_transaction.code_
=_?_AND_kiosk_transaction.
transaction_type=_1_AND_timestamp_>=_?_
AND_timestamp_<=_?";
$q = $this->db->query($query, array($id,
$codes[$x]['code'],$startDate,$endDate)
);
$item = $q->result_array();
$query= "SELECT_SUM(kiosk_transaction.quantity
)_as_quantity,_product.name_as_name,_
product.variant_as_variant,_SUM(
kiosk_transaction.quantity*product.srp)_
as_amount_FROM_kiosk_transaction_INNER_
JOIN_product_ON_product.code=
kiosk_transaction.code
WHERE_kiosk_id=_?_AND_kiosk_transaction.code_
=_?_AND_kiosk_transaction.
transaction_type=_2_AND_timestamp_>=_?_
AND_timestamp_<=_?";
$q = $this->db->query($query, array($id,
$codes[$x]['code'],$startDate,$endDate)
);
$delivery = $q->result_array();
$query= "SELECT_SUM(kiosk_products.quantity)_
as_quantity,_product.name_as_name,_
product.variant_as_variant,_SUM(
kiosk_products.quantity*product.srp)_as_
amount_FROM_kiosk_products_INNER_JOIN_
product_ON_product.code=kiosk_products.
code
WHERE_kiosk_id=_?_AND_kiosk_products.code=_?_
";
$q = $this->db->query($query, array($id,
$codes[$x]['code']));
$onhand = $q->result_array();
if($item[0]['quantity'] == 0){
$item[0]['quantity'] = 0;
$item[0]['amount'] = 0;
}
if($delivery[0]['quantity'] == 0){
$delivery[0]['quantity'] = 0;
$delivery[0]['amount'] = 0;
}
if($onhand[0]['quantity'] == 0){
$onhand[0]['quantity'] = 0;
$onhand[0]['amount'] = 0;
}
if($item[0]['name'] == '' && $delivery[0][
'name'] != ''){
$item[0]['name'] = $delivery[0]['name'];
$item[0]['variant'] = $delivery[0][
'variant'];
}
if($item[0]['name'] == '' && $delivery[0][
'name'] == '' && $onhand[0]['name'] != '')
{
$item[0]['name'] = $onhand[0]['name'];
$item[0]['variant'] = $onhand[0][
'variant'];
}
$value = array(
'code' => $codes[$x]['code'],
'name' => $item[0]['name'],
'variant' => $item[0]['variant'],
'quantity' => $item[0]['quantity'],
'amount' => $item[0]['amount'],
'delivery-quantity' => $delivery[0][
'quantity'],
'delivery_amount' => $delivery[0][
'amount'],
'onhand-quantity' => $onhand[0][
'quantity'],
'onhand-amount' => $onhand[0][
'amount'],
);
array_push($breakdown, $value);
}
return $breakdown;
}

public function get_stocks_on_hand($id){

```

```

$this->db->select('kiosk_id');
$this->db->where('kiosk_name', $id);
$q = $this->db->get('kiosk_details');
$kiosk_id = $q->result_array();
$query = "SELECT_kiosk_products.code,_product.
name,_product.variant,_kiosk_products.
quantity,_kiosk_products.quantity*product
.srp_as_amount,_kiosk_products.quantity_
FROM_kiosk_products INNER JOIN_product_on
_product.code=kiosk_products.code_WHERE_
kiosk_products.kiosk_id=?";
$q = $this->db->query($query, array($kiosk_id
[0]['kiosk_id']));
$currentTotal = $q->result_array();
return $currentTotal;
}

public function retrieve_region_reports(
    $region, $startDate, $endDate,
    $kioskFilters, $region_names){
    if(in_array(1, $kioskFilters)){
        $total = $this->transaction_model->
            retrieve_region_quantity($region,
                $startDate, $endDate, 1);
    }
    if(in_array(2, $kioskFilters)){
        $month_averages = $this->transaction_model->
            retrieve_average($startDate, $endDate, "
            month");
    }
    if(in_array(3, $kioskFilters)){
        $deliveries = $this->transaction_model->
            retrieve_region_quantity($region,
                $startDate, $endDate, 2);
    }
    if(in_array(4, $kioskFilters)){
        $onhand = $this->transaction_model->
            retrieve_region_onhand($region);
    }
    if(in_array(6, $kioskFilters)){
        $perc = $this->transaction_model->
            retrieve_percentage($startDate, $endDate)
            ;
    }
    if(in_array(7, $kioskFilters)){
        $daily_ave = $this->transaction_model->
            retrieve_average($startDate, $endDate, "
            day");
    }
    if(in_array(8, $kioskFilters)){
        $year_ave = $this->transaction_model->
            retrieve_average($startDate, $endDate, "
            year");
    }
    $report = array();
    for($x=0; $x<count($region); $x++){
        $value = array('region_id' => $region[$x]);
        if(isset($region_names)){
            $key = array_search($region[$x], array_column(
                $region_names, 'location_id'));
            $value['region_name'] = $region_names[$key]['
                location_name'];
        }
        if(isset($total)){
            $key = array_search($region[$x], array_column(
                $total, 'region_id'));
            if($key === false){
                $value['quantity_total'] = 0;
                $value['amount_total'] = 0;
            }else{
                $value['quantity_total'] = $total[$key]['
                    region_quantity_total'];
                $value['amount_total'] = $total[$key]['
                    region_amount_total'];
            }
        }
        if(isset($month_averages)){
            $key = array_search($region[$x], array_column(
                $total, 'region_id'));
            if($key === false){
                $value['monthly_average_quantity'] = 0;
                $value['monthly_average_amount'] = 0;
            }else{
                $value['monthly_average_quantity'] = $total[
                    $key]['region_quantity_total']/
                    $month_averages;
                $value['monthly_average_amount'] = $total[$key]
                    [['region_amount_total']/$month_averages;
            }
        }
        if(isset($deliveries)){
            $key = array_search($region[$x], array_column(
                $deliveries, 'region_id'));
            if($key === false){
                $value['delivery_quantity_total'] = 0;
                $value['delivery_amount_total'] = 0;
            }else{
                $value['delivery_quantity_total'] =
                    $deliveries[$key]['region_quantity_total'
                    ];
                $value['delivery_amount_total'] = $deliveries[
                    $key]['region_amount_total'];
            }
        }
        if(isset($onhand)){
            $key = array_search($region[$x], array_column(
                $onhand, 'region_id'));
            if($key === false){
                $value['onhand_quantity_total'] = 0;
                $value['onhand_amount_total'] = 0;
            }else{
                $value['onhand_quantity_total'] = $onhand[$key]
                    [['onhand_quantity'];
                $value['onhand_amount_total'] = $onhand[$key][
                    'onhand_amount'];
            }
        }
        if(isset($perc)){
            $key = array_search($region[$x], array_column(
                $total, 'region_id'));
            if($key === false){

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$value['perc_quantity_total'] = 0;
$value['perc_amount_total'] = 0;
}else{
$value['perc_quantity_total'] = ($total[$key][
'region_quantity_total']/ $perc[0]['
quantity']) *100;
$value['perc_amount_total'] = ($total[$key]['
region_amount_total']/ $perc[0]['amount'])
* 100;
}
}
if(isset($daily_ave)){
$key = array_search($region[$x], array_column(
$total, 'region_id'));
if($key === false){
$value['daily_quantity_total'] = 0;
$value['daily_amount_total'] = 0;
}else{
$value['daily_quantity_total'] = $total[$key][
'region_quantity_total']/ $daily_ave;
$value['daily_amount_total'] = $total[$key][
'region_amount_total']/ $daily_ave;
}
}
if(isset($year_ave)){
$key = array_search($region[$x], array_column(
$total, 'region_id'));
if($key === false){
$value['year_quantity_total'] = 0;
$value['year_amount_total'] = 0;
}else{
$value['year_quantity_total'] = $total[$key][
'region_quantity_total']/ $year_ave;
$value['year_amount_total'] = $total[$key][
'region_amount_total']/ $year_ave;
}
}
if(!($value['quantity_total'] == 0 && $value['
delivery_quantity_total'] == 0 && $value[
'onhand_quantity_total'] == 0))
array_push($report, $value);
}
return $report;
}
public function retrieve_region_quantity(
$region, $startDate, $endDate,
$transaction_type){
if(count($region) < 1 || !isset($startDate) ||
!isset($endDate)){
return array();
}
$sales = array();
$startDate .= "_00:00:00";
$endDate .= "_23:59:59";
$query = "SELECT_kiosk_details.location_id_as_
region_id, _SUM(kiosk_transaction.quantity
)_as_region_quantity_total, _SUM(
kiosk_transaction.quantity*product.srp)_
as_region_amount_total_FROM_kiosk_details
,_kiosk_transaction, _product_WHERE_
kiosk_details.location_id_IN_?_AND_
kiosk_details.kiosk_id_=_
kiosk_transaction.kiosk_id_AND_
kiosk_transaction.code_=_product.code_AND
_timestamp_>=_?_AND_timestamp_<=_?_AND_
kiosk_transaction.transaction_type_=_?_
GROUP_BY_kiosk_details.location_id";
$q = $this->db->query($query, array($region,
$startDate, $endDate, $transaction_type))
;
$total_quantity = $q->result_array();
return $total_quantity;
}
public function retrieve_region_onhand($region
){
$onhand = array();
$query = "SELECT_kiosk_details.location_id_as_
region_id, _SUM(kiosk_products.quantity)_
as_onhand_quantity, _SUM(kiosk_products.
quantity*_product.srp)_as_onhand_amount_
FROM_kiosk_products, _kiosk_details, _
product_WHERE_kiosk_details.location_id_
IN_?_AND_kiosk_details.kiosk_id_=_
kiosk_products.kiosk_id_AND_
kiosk_products.code_=_product.code_GROUP_
BY_kiosk_details.location_id";
$q = $this->db->query($query, array($region));
$total = $q->result_array();
return $total;
}
public function retrieve_region_breakdown($id,
$startDate, $endDate){
$startDate .= "_00:00:00";
$endDate .= "_23:59:59";
$query = "SELECT_kiosk_id, _kiosk_name_FROM_
kiosk_details_WHERE_location_id_=_?";
$q = $this->db->query($query, array($id));
$kiosks = $q->result_array();
$total_sales = $this->retrieve_quantity(
array_column($kiosks, 'kiosk_id'),
$startDate, $endDate, 1);
$total_delivery = $this->retrieve_quantity(
array_column($kiosks, 'kiosk_id'),
$startDate, $endDate, 2);
$total_onhand = $this->retrieve_onhand(
array_column($kiosks, 'kiosk_id'));
$breakdown=array();
for($x = 0; $x < count($kiosks); $x++){
$key_s = array_search($kiosks[$x]['kiosk_id'],
array_column($total_sales, 'kiosk_id'));
if($key_s === false){
$sales_q = 0;
$sales_a = 0;
}else{
$sales_q = $total_sales[$key_s][
'kiosk_quantity_total'];
$sales_a = $total_sales[$key_s][
'kiosk_amount_total'];
}
$key_d = array_search($kiosks[$x]['kiosk_id'],

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        array_column($total_delivery, 'kiosk_id'
    ));
    if($key-d === false){
        $delivery-q = 0;
        $delivery-a = 0;
    }else{
        $delivery-q = $total_delivery[$key-d]['
            kiosk-quantity-total'];
        $delivery-a = $total_delivery[$key-d]['
            kiosk-amount-total'];
    }
    $key-o = array_search($kiosks[$x]['kiosk_id'],
        array_column($total_onhand, 'kiosk_id'))
        ;
    if($key-o === false){
        $onhand-q = 0;
        $onhand-a = 0;
    }else{
        $onhand-q = $total_onhand[$key-o]['
            onhand-quantity'];
        $onhand-a = $total_onhand[$key-o]['
            onhand-amount'];
    }
    $value = array(
        'code' => $kiosks[$x]['kiosk_id'],
        'name' => $kiosks[$x]['kiosk-name'],
        'quantity' => $sales-q,
        'amount' => $sales-a,
        'delivery-quantity' => $delivery-q,
        'delivery-amount' => $delivery-a,
        'onhand-quantity' => $onhand-q,
        'onhand-amount' => $onhand-a
    );
    array_push($breakdown, $value);
}
return $breakdown;
}

public function retrieve_month_progress($year)
{
    $query = "SELECT_MONTH(kiosk_transaction .
        timestamp)_as_month, _SUM(
        kiosk_transaction . quantity_*_product . srp)
        _as_sales _FROM_ kiosk_transaction _INNER_
        JOIN_ product_ON_ kiosk_transaction . code_=_
        product . code
    WHERE_ kiosk_transaction . transaction_type _=_1_
        AND_YEAR(kiosk_transaction . timestamp)_=_?_?_
        _GROUP_BY_MONTH(kiosk_transaction .
        timestamp)_";
    $q = $this->db->query($query, array($year));
    $month_progress = $q->result_array();
    if(count($month_progress) > 0)
        $month_progress = $this->set_blank_months(
            $month_progress);
    return $month_progress;
}

public function retrieve_year_progress(){
    $query = "SELECT_YEAR(kiosk_transaction .
        timestamp)_as_year, _SUM(kiosk_transaction
        . quantity_*_product . srp)_as_sales _FROM_
        kiosk_transaction _INNER_JOIN_ product_ON_
        kiosk_transaction . code_=_product . code
    WHERE_ kiosk_transaction . transaction_type _=_1_
        AND_YEAR(kiosk_transaction . timestamp)_=_?_?_
        _GROUP_BY_YEAR(kiosk_transaction .
        timestamp)_";
    $q = $this->db->query($query);
    $year_progress = $q->result_array();
    return $year_progress;
}

public function retrieve_progress_report(
    $id_array, $type, $year){
    if($type === "kiosk"){
        $query = "SELECT_SUM(kiosk_transaction .
            quantity_*_product . srp)_as_sales, _month(
            kiosk_transaction . timestamp)_as_month_
        FROM_ kiosk_transaction _INNER_JOIN_ product
        _ON_ product . code_=_kiosk_transaction . code
        _WHERE_ kiosk_transaction . transaction_type
        _=_1_ AND_ kiosk_transaction . kiosk_id _=_?_?_
        AND_YEAR(kiosk_transaction . timestamp)_=_?_?_
        _GROUP_BY_month(kiosk_transaction .
        timestamp)_";
        $string = 'kiosk_id';
    }else if($type === "product"){
        $query = "SELECT_MONTH(kiosk_transaction .
            timestamp)_as_month, _SUM(
            kiosk_transaction . quantity_*_product . srp)
            _as_sales _FROM_ kiosk_transaction _INNER_
            JOIN_ product_ON_ kiosk_transaction . code_=_
            product . code
        WHERE_ kiosk_transaction . code_=_?_?_ AND_
            kiosk_transaction . transaction_type _=_1_
            AND_YEAR(kiosk_transaction . timestamp)_=_?_?_
            _GROUP_BY_MONTH(kiosk_transaction .
            timestamp)_";
        $string = 'code';
    }else if($type === "region"){
        $query = "SELECT_MONTH(kiosk_transaction .
            timestamp)_as_month, _SUM(
            kiosk_transaction . quantity_*_product . srp)
            _as_sales _FROM_ kiosk_transaction, _
            kiosk_details, _product _WHERE_
            kiosk_transaction . code_=_product . code
            AND_ kiosk_transaction . kiosk_id _=_kiosk_details
            . kiosk_id AND_ kiosk_details . location_id _=_
            _?_?_ AND_ kiosk_transaction . transaction_type
            _=_1_ AND_YEAR(kiosk_transaction . timestamp)
            )_=_?_?_ GROUP_BY_MONTH(kiosk_transaction .
            timestamp)_";
        $string = 'region_id';
    }
    $month_progress = array();
    for($x = 0; $x < count($id_array); $x++){
        $q = $this->db->query($query, array($id_array[
            $x], $year));
        $progress = $q->result_array();
        if(count($progress) > 0)
            $progress = $this->set_blank_months($progress)
            ;
        $value = array(

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$string => $id_array[$x],
'value_array' => $progress
);
if(count($progress) > 0)
array_push($month_progress, $value);
}
return $month_progress;
}
public function retrieve_progress_analytics(
    $id_array, $type, $year){
if($type === "kiosk"){
$query = "SELECT SUM(kiosk.transaction.
    quantity*_product.srp)_as_sales, month(
    kiosk.transaction.timestamp)_as_month,
    year(kiosk.transaction.timestamp)_as_year
    FROM kiosk.transaction INNER JOIN
    product ON product.code=
    kiosk.transaction.code WHERE
    kiosk.transaction.timestamp >= curdate() -
    interval (dayofmonth(curdate()) - 1) day
    - interval 5 month AND kiosk.transaction
    .transaction_type = 1 AND
    kiosk.transaction.kiosk_id = ? GROUP BY
    month(kiosk.transaction.timestamp), year(
    kiosk.transaction.timestamp)";
$string = 'kiosk_id';
}else if($type === "product"){
$query = "SELECT MONTH(kiosk.transaction.
    timestamp)_as_month, SUM(
    kiosk.transaction.quantity)_as_sales,
    year(kiosk.transaction.timestamp)_as_year
    FROM kiosk.transaction INNER JOIN
    product ON kiosk.transaction.code =
    product.code
WHERE kiosk.transaction.timestamp >= curdate() -
    interval (dayofmonth(curdate()) - 1)
    day - interval 5 month AND
    kiosk.transaction.transaction_type = 1
    AND kiosk.transaction.code = ? GROUP BY
    month(kiosk.transaction.timestamp), year(
    kiosk.transaction.timestamp)";
$string = 'code';
}else if($type === "total"){
$query = "SELECT SUM(kiosk.transaction.
    quantity*_product.srp)_as_sales, month(
    kiosk.transaction.timestamp)_as_month,
    year(kiosk.transaction.timestamp)_as_year
    FROM kiosk.transaction INNER JOIN
    product ON product.code =
    kiosk.transaction.code WHERE
    kiosk.transaction.timestamp >= curdate() -
    interval (dayofmonth(curdate()) - 1) day
    - interval 5 month AND kiosk.transaction
    .transaction_type = 1 GROUP BY month(
    kiosk.transaction.timestamp), year(
    kiosk.transaction.timestamp)";
$string = 'kiosk_id';
}
}
$month_progress = array();
for($x = 0; $x < count($id_array); $x++){
if($type !== "total"){
$query = $this->db->query($query, array($id_array[
    $x]));
}else{
$query = $this->db->query($query);
}
$progress = $q->result_array();
if(count($progress) > 0)
$progress = $this->set_zeroes($progress, 6);
$value = array(
    $string => $id_array[$x],
    'value_array' => $progress
);
if(count($progress) > 0)
array_push($month_progress, $value);
}
return $month_progress;
}
public function
    retrieve_individual_year_progress(
        $id_array, $type){
if($type === "kiosk"){
$query = "SELECT YEAR(kiosk.transaction.
    timestamp)_as_year, SUM(kiosk.transaction
    .quantity*_product.srp)_as_sales FROM
    kiosk.transaction INNER JOIN product ON
    kiosk.transaction.code = product.code
WHERE kiosk.transaction.kiosk_id = ? AND
    kiosk.transaction.transaction_type = 1
    GROUP BY YEAR(kiosk.transaction.timestamp)
    -";
$string = 'kiosk_id';
}else if($type === "product"){
$query = "SELECT YEAR(kiosk.transaction.
    timestamp)_as_year, SUM(kiosk.transaction
    .quantity*_product.srp)_as_sales FROM
    kiosk.transaction INNER JOIN product ON
    kiosk.transaction.code = product.code
WHERE kiosk.transaction.code = ? AND
    kiosk.transaction.transaction_type = 1
    GROUP BY YEAR(kiosk.transaction.timestamp)
    -";
$string = 'code';
}else if($type === "region"){
$query = "SELECT YEAR(kiosk.transaction.
    timestamp)_as_year, SUM(kiosk.transaction
    .quantity*_product.srp)_as_sales FROM
    kiosk.transaction, kiosk_details, product
    WHERE kiosk.transaction.code = product.
    code
    AND kiosk.transaction.kiosk_id = kiosk_details
    .kiosk_id AND kiosk_details.location_id =
    ? AND kiosk.transaction.transaction_type
    = 1 GROUP BY YEAR(kiosk.transaction.
    timestamp) -";
$string = 'region_id';
}
}
$query2 = "SELECT MIN(YEAR(timestamp))_as_year
    FROM kiosk.transaction WHERE kiosk_id IN
    ? AND transaction_type = 1";

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Sq2 = $this->db->query($query2, array(
    Sid_array));
$first_year = $q2->row_array();
$month_progress = array();
for($x = 0; $x < count($Sid_array); $x++){
    $q = $this->db->query($query, array($Sid_array[
        $x]));
    $progress = $this->fill_years($q->result_array
        (), $first_year['year']);
    $value = array(
        $string => $id_array[$x],
        'value_array' => $progress
    );
    if(count($progress) > 0)
        array_push($month_progress, $value);
}
return $month_progress;
}
public function fill_years($year_array,
    $start_year){
    if(count($year_array) < 1){
        return array();
    }
    $date = getdate();
    $year = $date['year'];
    $counter = $year - $start_year;
    $filled = array();
    for($x = $counter; $x >= 0; $x--){
        $key = array_search(($year - $x), array_column
            ($year_array, 'year'));
        if(!($key === false && $year_array[$key]['year
            '] != ($year-$x))){
            $value = array(
                'sales' => $year_array[$key]['sales'],
                'year' => $year - $x
            );
        }else{
            $value = array(
                'sales' => 0,
                'year' => $year - $x
            );
        }
        array_push($filled, $value);
    }
    return $filled;
}
public function set_zeroes($month_array,
    $count){
    $date = getdate();
    $month = $date['mon'];
    $year = $date['year'];
    $progress_report = array();
    for($x = $count; $x > 0; $x--){
        $month_searched = (($month - $x + 13) % 12 > 0
            ? ($month - $x + 13)%12 : 12); // if 0,
            that means that December is the month we
            are searching for
        $key = array_search($month_searched,
            array_column($month_array, 'month'));
        if(!($key === false && $month_array[$key]['
            month'] != $month_searched)){ // month
            has been found in array
            $value = array(
                'month' => $month_searched,
                'sales' => $month_array[$key]['sales'],
                'year' => (($month - $x) >= 0 ? $year : $year
                    -1)
            );
        }else{
            $value = array(
                'month' => $month_searched,
                'sales' => 0,
                'year' => (($month - $x) >= 0 ? $year : $year
                    -1)
            );
        }
        array_push($progress_report, $value);
    }
    return $progress_report;
}
public function set_blank_months($month_array)
    {
        $progress_report = array();
        for($x = 0; $x < 12; $x++){
            $key = array_search($x+1, array_column(
                $month_array, 'month'));
            if(!($key === false && $month_array[$key]['
                month'] != $x+1)){
                $value = array(
                    'month' => $x,
                    'sales' => $month_array[$key]['sales']
                );
            }else{
                $value = array(
                    'month' => $x,
                    'sales' => 0
                );
            }
            array_push($progress_report, $value);
        }
        return $progress_report;
    }
public function retrieve_monthly_breakdown($id
    , $year){
    $query = "SELECT DISTINCT kiosk.transaction.
        code_as_code, _product.variant_as_name, _
        product.identifier_as_identifier, _product
        .srp_as_srp FROM kiosk.transaction INNER_
        JOIN product ON kiosk.transaction.code=_
        product.code WHERE kiosk.transaction.
        transaction_type = 1 AND_
        kiosk.transaction.kiosk_id = ? AND_
        kiosk.transaction.timestamp > _curdate() -
        _interval_(dayofmonth(curdate()) - 1)_day
        _ - _interval_5_month";
    $q = $this->db->query($query, array($id));
    $codes = $q->result_array();
    $product_info = array();
    for($x = 0; $x < count($codes); $x++){
        $query = "SELECT SUM(kiosk.transaction.

```

```

        quantity) _as_ sales, _MONTH(
        kiosk_transaction.timestamp) _as_ month, _
        YEAR(kiosk_transaction.timestamp) _as_ year
FROM kiosk_transaction INNER JOIN product ON
    kiosk_transaction.code = product.code
WHERE kiosk_transaction.transaction_type =
    1 AND kiosk_transaction.code = ? AND
    kiosk_id = ? AND kiosk_transaction.
    timestamp > curdate() - interval(
    dayofmonth(curdate()) - 1) _day - interval
    5 _month
GROUP BY month, year";
$q = $this->db->query($query, array($codes[$x]
    ]['code'], $id));
$sales = $this->set zeroes($q->result_array(),
    6);
$value = array(
    'code' => $codes[$x]['code'],
    'identifier' => $codes[$x]['identifier'],
    'name' => $codes[$x]['name'],
    'value_array' => $sales
);
array_push($product_info, $value);
}
return array($product_info, $codes);
}

public function retrieve_total_breakdown(){
$query = "SELECT DISTINCT kiosk_transaction.
    code _as_ code, _product.variant _as_ name, _
    product.identifier _as_ identifier, _product.
    srp _as_ srp FROM kiosk_transaction INNER
    JOIN product ON kiosk_transaction.code =
    product.code WHERE kiosk_transaction.
    transaction_type = 1 AND
    kiosk_transaction.timestamp > curdate() -
    interval(dayofmonth(curdate()) - 1) _day
    - interval 5 _month";
$q = $this->db->query($query);
$codes = $q->result_array();
$product_info = array();
for($x = 0; $x < count($codes); $x++){
$query = "SELECT SUM(kiosk_transaction.
    quantity) _as_ sales, _MONTH(
    kiosk_transaction.timestamp) _as_ month, _
    YEAR(kiosk_transaction.timestamp) _as_ year
FROM kiosk_transaction INNER JOIN product ON
    kiosk_transaction.code = product.code
WHERE kiosk_transaction.transaction_type =
    1 AND kiosk_transaction.code = ? AND
    kiosk_transaction.timestamp > curdate() -
    interval(dayofmonth(curdate()) - 1) _day
    - interval 5 _month
GROUP BY month, year, kiosk_transaction.code";
$q = $this->db->query($query, array($codes[$x]
    ]['code']));
$sales = $this->set zeroes($q->result_array(),
    6);
$value = array(
    'code' => $codes[$x]['code'],
    'identifier' => $codes[$x]['identifier'],
    'name' => $codes[$x]['name'],
    'value_array' => $sales
);
array_push($product_info, $value);
}
return array($product_info, $codes);
}

public function retrieve_warehouse_averages(){
$query = "SELECT (SUM(kiosk_transaction.
    quantity) + 0.0) / (_FLOOR((
    unix_timestamp(CURRENT_TIMESTAMP) -
    unix_timestamp(MIN(TIMESTAMP))) /
    60 / 60 / 24 / 30) + 1) _as_ average, _CONCAT(
    product.name, '-', _product.variant) _as_
    name, _kiosk_transaction.code _as_ code
FROM kiosk_transaction INNER JOIN product ON
    kiosk_transaction.code = product.code
WHERE kiosk_transaction.transaction_type =
    1 AND kiosk_transaction.kiosk_id = ?
GROUP BY kiosk_transaction.code";
$q = $this->db->query($query, array($kiosk_id)
    );
return $q->result_array();
}

public function retrieve_warehouse_averages(){
$query = "SELECT (SUM(kiosk_transaction.
    quantity) + 0.0) / (_FLOOR((
    unix_timestamp(CURRENT_TIMESTAMP) -
    unix_timestamp(MIN(TIMESTAMP))) /
    60 / 60 / 24 / 30) + 1) _as_ average, _CONCAT(
    product.name, '-', _product.variant) _as_
    name, _kiosk_transaction.code _as_ code
FROM kiosk_transaction INNER JOIN product ON
    kiosk_transaction.code = product.code
WHERE kiosk_transaction.transaction_type =
    2 GROUP BY kiosk_transaction.code";
$q = $this->db->query($query);
return $q->result_array();
}

public function create_analytics($kiosk_id){
$query = "SELECT product.code _as_ code, _SUM(
    kiosk_transaction.quantity * _product.srp)
    _as_ sales, _month(kiosk_transaction.
    timestamp) _as_ month, _year(
    kiosk_transaction.timestamp) _as_ year
FROM kiosk_transaction ' INNER JOIN product ON
    _product.code = kiosk_transaction.code
WHERE kiosk_transaction.timestamp > curdate() -
    interval(dayofmonth(curdate()) - 1) _
    day - interval 5 _month AND
    kiosk_transaction.transaction_type = 1
AND kiosk_transaction.kiosk_id = ? GROUP
    BY month(kiosk_transaction.timestamp), _
    year(kiosk_transaction.timestamp), _
    product.code";
$q = $this->db->query($query, array($kiosk_id)
    );
$analytics = $q->result_array();
return $analytics;
}

```

```

public function retrieve_week_sales($kiosks){
$query = "SELECT DATE_FORMAT(DATE(
    kiosk_transaction.timestamp), '%Y-%b-%d')
    as date, SUM(kiosk_transaction.quantity *
    product.srp) as sales FROM
    kiosk_transaction INNER JOIN product ON
    product.code = kiosk_transaction.code
WHERE kiosk_transaction.kiosk_id IN ? AND
    kiosk_transaction.timestamp >= curdate() -
    interval 6 DAY AND kiosk_transaction.
    transaction_type = 1 GROUP BY date ASC";
$q = $this->db->query($query, array($kiosks));
$sales = $q->result_array();
return $this->fill_week($sales);
}

public function fill_week($sales){
$date = date('Y-M-d');
$filled = array();
if(count($sales) > 0){
for($x = 6; $x >= 0; $x--){
$date = date('Y-M-d', strtotime('-'.$x.'_day',
    strtotime(date('Y-M-d'))));
$key = array_search($date, array_column($sales,
    'date'));
if(!($key === false && $sales[$key]['date']
    !== $date)){
$value = array(
    'date' => $date,
    'sales' => $sales[$key]['sales']
);
}else{
$value = array(
    'date' => $date,
    'sales' => 0
);
}
array_push($filled, $value);
}
}
return $filled;
}

public function trace_transactions(){
$query = "SELECT kiosk_details.kiosk_name as
    kiosk_name, product.name as product_name,
    product.identifier as identifier,
    product.variant as product_variant,
    kiosk_transaction.code as code,
    kiosk_transaction.quantity as quantity,
    kiosk_transaction.timestamp as timestamp,
    kiosk_transaction.transaction_id as
    transaction,
    transaction_details.transaction_name as
    transaction_name
FROM kiosk_details, product, kiosk_transaction
, transaction_details
WHERE kiosk_details.kiosk_id =
    kiosk_transaction.kiosk_id AND product.
    code = kiosk_transaction.code
AND transaction_details.transaction_type =
    kiosk_transaction.transaction_type AND

```

```

    kiosk_transaction.transaction_type in
    (2,3,4,5,6) AND YEAR(kiosk_transaction.
    timestamp) = ?";
$q = $this->db->query($query, array(date('Y'))
);
return $q->result_array();
}

public function get_transaction_comment(){
$query = "SELECT * FROM
    kiosk_transaction_comment";
$q = $this->db->query($query);
return $q->result_array();
}
}
?>

```

User Model

```

<?php
if ( ! defined('BASEPATH')) exit('No direct
    script access allowed');
class User_model extends CI_Model {
public function __construct(){
parent::__construct();
$this->load->database();
}

public function set_user_data(){
$this->load->helper('url');
$password = $this->input->post('password');
$encrypted = hash("sha256", $password);
$role_id = $this->retrieve_role_id($this->
    input->post('urole'));
$user_data = array( // $data1 is an
    associative array containing the database
    row information to be inserted
    'first_name' => $this->input->post('fname'),
    'last_name' => $this->input->post('lname'),
    'sex' => $this->input->post('sex'),
    'email' => $this->input->post('email'),
    'username' => $this->input->post('username'),
    'password' => $encrypted,
    'role_id' => $role_id[0]['role_id'],
    'confirmed' => 'F'
);
$this->db->insert('user', $user_data);
}

public function retrieve_name($id){
$this->db->select('first_name, last_name');
$this->db->where('user_id', $id);
$q = $this->db->get('user');
$name = $q->result_array();
return $name;
}

public function retrieve_personnel($role){
$role = $this->retrieve_role_id($role);
$this->db->select('user_id, first_name,
    last_name, sex');
$this->db->where('role_id', $role[0]['role_id']
);
$this->db->where('confirmed', 'T');

```

```

$q = $this->db->get('user');
$personnel = $q->result_array();
return $personnel;
}
public function retrieve_role_id($role){
$this->db->where('role_name', $role);
$q = $this->db->get('role');
$data = $q->result_array();
return $data;
}
public function retrieve_profile($id){
$query = "SELECT user.first_name_as_f_name, user.last_name_as_l_name, user.sex_as_sex, user.email_as_email, user.username_as_username, role.role_name_as_role FROM user INNER JOIN role ON user.role_id = role.role_id WHERE user.user_id = ";
$q = $this->db->query($query, array($id));
$profile = $q->result_array();
return $profile;
}
public function update_profile($id){
$this->db->select('password');
$this->db->where('user_id', $id);
$q = $this->db->get('user');
$data = $q->result_array();
$pass = hash("sha256", $this->input->post('old_password'));
if(strcmp($pass, $data[0]['password']) == 0){
$pass_original = $this->input->post('password');
};
$pass = hash("sha256", $pass_original);
$info = array(
'first_name' => $this->input->post('fname'),
'last_name' => $this->input->post('lname'),
'sex' => $this->input->post('sex'),
'email' => $this->input->post('email'),
'password' => $pass
);
$this->db->where('user_id', $id);
$this->db->update('user', $info);
return true;
}else{
return false;
}
}
public function retrieve_kiosk_assignment($id)
{
$this->db->select('kiosk_id');
$this->db->where('user_id', $id);
$q = $this->db->get('kiosk_assignment');
$kiosk = $q->result_array();
if(count($kiosk)>0)
return $kiosk[0]['kiosk_id'];
}
public function verify_user(){
$username = $this->input->post('username');
$password = hash("sha256", $this->input->post('inputPassword'));
$this->db->select('confirmed, password, role_id, user_id');
$this->db->where('username', $username);
$q = $this->db->get('user');
$personnel = $q->result_array();
if($personnel[0]['password'] == $password && $personnel[0]['confirmed'] == 'T'){
$user_details = array(
'username' => $username,
'role' => $personnel[0]['role_id'],
'user_id' => $personnel[0]['user_id']
);
return $user_details;
}
return false;
}
public function retrieve_users($approved){
$query = "SELECT user.first_name_as_f_name, user.last_name_as_l_name, user.user_id_as_id, role.role_name_as_role FROM user INNER JOIN role ON user.role_id = role.role_id WHERE user.confirmed = ";
$q = $this->db->query($query, array($approved));
$users = $q->result_array();
return $users;
}
public function approve_users(){
$users = $this->input->post('users');
$approve = array(
'confirmed'=> 'T'
);
$this->db->where_in('user_id', $users);
$this->db->update('user', $approve);
}
public function deactivate_users(){
$users = $this->input->post('users');
$deactivate = array(
'confirmed'=> 'F'
);
$this->db->where_in('user_id', $users);
$this->db->update('user', $deactivate);
}
public function check_match_role($role_id, $role_check){
$this->db->select('role_name');
$this->db->where('role_id', $role_id);
$q = $this->db->get('role');
$role = $q->row_array();
if($role['role_name'] == $role_check){
return true;
}else{
return false;
}
}
public function retrieve_max_id(){
$this->db->select_max('user_id');
$q = $this->db->get('user');
return $q->row_array();
}
}

```

??

Analytics View

```
<div class = "body">
<center><h2> <?php echo $title?></h2></center>
<?php
if($title == "View_Kiosk_Analytics"){
echo form_open('kioskanalytics');
}else{
echo form_open('productanalytics');
}
??
<?php if(isset($prediction)){ ??
<center><button type="button" onclick="
hideKiosks()" class = "btn btn-lg">Pick
specific <?php if($title == "View_Kiosk_
Analytics"){echo "kiosk"; }else{ echo "
product"; } ?></button></center>
<?php } ??
<form>
<?php if($title == "View_Kiosk_Analytics"){??
<div <?php if ( isset($prediction) && count(
$observations) > 0 ) { ?>style="display:
none;" <?php } ?> id=" kiosks-div">
<h4>Select Kiosks:</h4>
<table id="table1" class="table table-striped_
table-bordered" cellspacing="0">
<thead>
<tr>
<th id="head1_kiosk">ID</th>
<th id="head2_kiosk">Name</th>
<th id="head3_kiosk"></th>
</tr>
</thead>
<tbody>
<?php
for($x = 0; $x < count($kiosks); $x++){
echo "<tr>";
echo "<th_id='head1_kiosk'>" . $kiosks[$x][ '
kiosk_id ' ] . "</th>";
echo "<th_id='head2_kiosk'>" . $kiosks[$x][ '
kiosk_name ' ] . "</th>";
echo "<th_id='head3_kiosk'><input_type='radio'
_class_='kiosk_box' _name='kiosks' _value
=' " . $kiosks[$x][ ' kiosk_id ' ] . "'></input></
th>";
echo "</tr>";
}
??
</tbody>
</table>
<center><button id="button" type="submit" name
= "action" value = "report" class="btn_
btn-primary btn-lg"><span class="
glyphicon glyphicon-ok"> Submit</span></
button></center>
</div>
<?php }else{
??
```

```
<div <?php if ( isset($prediction) && count(
$observations) > 0){ ?>style="display:
none;" <?php } ?> id=" kiosks-div">
<h4>Select Kiosks:</h4>
<table id="table1" class="table table-striped_
table-bordered" cellspacing="0">
<thead>
<tr>
<th id="head1_kiosk">Code</th>
<th id="head2_kiosk">Name</th>
<th id="head3_kiosk"></th>
</tr>
</thead>
<tbody>
<?php
for($x = 0; $x < count($products); $x++){
echo "<tr>";
echo "<th_id='head1_kiosk'>" . $products[$x][ '
identifier ' ] . '- ' . $products[$x][ 'code ' ] . "
</th>";
echo "<th_id='head2_kiosk'>" . $products[$x][ '
name ' ] . "- " . $products[$x][ 'variant ' ] . "</th
>";
echo "<th_id='head3_kiosk'><input_type='radio'
_class_='kiosk_box' _name='products' _
value=' " . $products[$x][ 'code ' ] . "'></input
></th>";
echo "</tr>";
}
??
</tbody>
</table>
<center><button id="button" type="submit" name
= "action" value = "report" class="btn_
btn-primary btn-lg"><span class="
glyphicon glyphicon-ok"> Submit</span></
button></center>
</div>
<?php } ??
</form>
<div id="monthly-prediction"></div>
<div id="product-prediction"></div>
</div>
<script src="<?php_echo_base_url('assets/
datatables/js/jquery.dataTables.min.js')
?"></script>
<script src="<?php_echo_base_url('assets/
datatables/js/dataTables.bootstrap.js')?"
"></script>
<script src="<?php_echo_base_url('assets/
highcharts/js/highcharts.js')?"></script
>
<script src="<?php_echo_base_url('assets/
highcharts/js/modules/exporting.js')?"
"></script>
<script src="<?php_echo_base_url('assets/
highcharts/js/modules/offline-exporting.
js')?"></script>
<script>
$( '#table1' ). DataTable();
```

```

function hideKiosks(){
if(document.getElementById('kiosks-div').style
    .display == "none"){
document.getElementById('kiosks-div').style.
    display = "block";
}else{
document.getElementById('kiosks-div').style.
    display = "none";
}
}
function checkKiosks(){
$("#kiosk_box").click();
}
</script>
<?php if(isset($observations) && count(
    $observations) > 0 && isset($prediction))
    { ?>
<?php
$month_array = array('Jan', 'Feb', 'Mar', 'Apr
    ', 'May', 'Jun',
'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec');
$x_axis = array();
$obs = $observations[0]['value_array'];
for($x = 0; $x < count($obs); $x++){
array_push($x_axis, $month_array[$obs[$x]['
    month']-1]."_". $obs[$x]['year']);
}
$latest_month = $obs[$x-1]['month'];
$latest_year = $obs[$x-1]['year'];
for($y = $x; $y < count($prediction[0]['
    value_array']) + $x; $y++){
$month_predict = ( ($latest_month + ($y-$x) +
    13) % 12 > 0 ? ($latest_month + ($y-$x)
    + 13) % 12 : 12 );
$year_predict = ( ($latest_month + ($y-$x) ) >
    12 ? $latest_year++ : $latest_year );
array_push($x_axis, $month_array[
    $month_predict-1]."_". $year_predict."_(
    prediction)");
}
?>
<script>
$(function () {
$('#monthly-prediction').highcharts({
    title: {
        text: 'Monthly_Progress',
        x: -20 //center
    },
    subtitle: {
        text: "Year-<?php_echo_date('Y')_?>",
        x: -20
    },
    xAxis: {
        categories: <?php_echo json_encode($x_axis);?>
    },
    yAxis: {
        title: {
            <?php if($title == "View_Kiosk_Analytics"){?>
            text: 'Amount_(P)'
            <?php }else{?>
            text: 'Quantity'
            <?php } ?>
        },
        plotLines: [{
            value: 0,
            width: 1,
            color: '#808080'
        }],
        <?php if($title == "View_Kiosk_Analytics"){?>
        tooltip: {
            valuePrefix: 'P_'
        },
        <?php ?>
        legend: {
            layout: 'vertical',
            align: 'right',
            verticalAlign: 'middle',
            borderWidth: 0
        },
        series: [
            <?php for($x = 0; $x < count($observations);
                $x++ )?>
            {
                <?php
                if($title == "View_Kiosk_Analytics"){
                    $key = array_search($observations[$x]['
                        kiosk_id'], array_column($prediction, '
                        kiosk_id'));
                    $key2 = array_search($observations[$x]['
                        kiosk_id'], array_column($kiosks, '
                        kiosk_id'));
                }else if($title == "View_Product_Analytics"){
                    $key = array_search($observations[$x]['code'],
                        array_column($observations, 'code'));
                    $key2 = array_search($observations[$x]['code'
                        ], array_column($products, 'code'));
                }
                ?>
                name: "<?php
                if($title == 'View_Kiosk_Analytics'){
                    echo_$kiosks[$key2]['kiosk_name'];
                }else if($title == 'View_Product_Analytics'){
                    echo_$products[$key2]['identifier'].' - '.
                        $products[$key2]['code'];
                }
                ?>",
                data: <?php_echo json_encode( array_merge(
                    array_column($observations[$x]['
                        value_array'], 'sales') , $prediction[
                        $key]['value_array'] ),
                    JSON_NUMERIC_CHECK );?>
            },
        <?php } ?>
        <?php if(isset($prediction2)){?>
        {
            name: "Product-based_Prediction",
            data:<?php_echo json_encode( array_merge(
                array_column($observations[0]['
                    value_array'], 'sales') , $prediction2 ),

```



```

        JSON_NUMERIC_CHECK );?>
    }
<?php } ?>
]
});
});
<?php if(isset($product_prediction) && count(
    $product_prediction) > 0){?>
$(function () {
$( '#product-prediction' ).highcharts({
title: {
text: 'Product_Sales_Per_Month',
x: -20 //center
},
subtitle: {
text: "Year_<?php echo date('Y');_?>",
x: -20
},
xAxis: {
categories: <?php echo json_encode($x_axis);?>
},
yAxis: {
title: {
text: 'Quantity'
},
plotLines: [{
value: 0,
width: 1,
color: '#808080'
}]
},
legend: {
layout: 'vertical',
align: 'right',
verticalAlign: 'middle',
borderWidth: 0
},
series: [
<?php for($x = 0; $x < count($product_sales);
    $x++){?>
{
<?php
if($title === "View_Kiosk_Analytics"){
$key = array_search($product_sales[$x]['code'],
    array_column($product_prediction, 'code'));
}else if($title === "View_Product_Analytics"){
$key = array_search($observations[$x]['code'],
    array_column($observations, 'code'));
}
?>
name: "<?php
if($title === 'View_Kiosk_Analytics'){
echo $product_sales[$key]['identifier'].'-'.
    $product_sales[$key]['code'];
}else_if($title === 'View_Product_Analytics'){
echo $observations[$key]['identifier'];
}
?>",
data: <?php echo json_encode( array_merge(

```

```

        array_column($product_sales[$x][ '
        value_array'], 'sales') ,
        $product_prediction[$key][ 'value_array'
        ), JSON_NUMERIC_CHECK );?>
    },
<?php } ?>
]
});
});
<?php } ?>
</script >
<?php } ?>

```

Approve Users View

```

<?
if($title === "Approve_Users"){
    echo form_open("approvesuccess");
}else{
    echo form_open("deactivatesuccess");
}
?>
<div class = "prodreg_body">
<h2 class="prodreg-header"><?php echo $title
?></h2>
<form>
<div>
<label class="control-label">Users requiring
    approval:</label>
<table id="table1" class="table table-striped_
    table-bordered" cellspacing="0">
<thead>
<tr>
<th id="head1">ID</th>
<th id="head2">First Name</th>
<th id="head3">Last Name</th>
<th id="head4">Role</th>
<th id="head5">Approve</th>
</tr>
</thead>
<tbody>
<?php
for($x = 0; $x < count($users); $x++){
echo "<tr>";
echo "<th_id='head1'>". $users[$x]['id' ]. "</th>";
";
echo "<th_id='head2'>". $users[$x]['f_name' ]. "
</th>";
echo "<th_id='head3'>". $users[$x]['l_name' ]. "
</th>";
echo "<th_id='head4'>". $users[$x]['role' ]. "<
th>";
echo "<th_id='head5'><center><input type='
checkbox' id=_ 'users'_name=_ 'users []'_
value='". $users[$x]['id' ]. "'></input></
center></th>";
echo "</tr>";
}
?>
</tbody>

```

```

</table>
</div>
</br>
<center>
<div>
<button type="submit" class="btn btn-primary btn-lg"><span class="glyphicon glyphicon-ok"> Approve</span></button>
</div>
</center>
</form>
</div>
<script src="<?php echo base_url('assets/datatables/js/jquery.dataTables.min.js')?>"></script>
<script src="<?php echo base_url('assets/datatables/js/dataTables.bootstrap.js')?>"></script>
<script src="<?php echo base_url('assets/touchspin/jquery.bootstrap-touchspin.min.js')?>"></script>
<script>
$(document).ready(function() {
$('#table1').DataTable({
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
});
$('#table2').DataTable({
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
});
$('#table3').DataTable({
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
});
});
</script>

```

Dashboard View

```

<div class="body">
<div class="alert alert-block alert-success fade_in">
<br>
<center><h4 class="alert-heading"> Welcome to
LA Global Product Trends Inc. Inventory
System, <?php echo $name[0]['first_name'] . " " . $name[0]['last_name']; ?>!</h4></center>
<br>
</div>
<div class="panel-wrapper">
<div class="panel panel-primary filters-panel border-violet">
<div class="panel-heading panel-violet">
Recent Notifications
</div>

```

```

<div class="panel-body">
<?php
if(count($notifications_page) > 0){
for($x = 0; $x < count($notifications_page);
$x++){
if($notifications_page[$x]['notif-type'] == 2)
{
echo "<li><a href='". base_url('/notificationdetails/'. $notifications_page[$x]['notif_id']). "'><span class='author'><span class='notif'>".
$notifications_page[$x]['notif_location']. " 's_stocks_need_confirmation_for_delivery.</span></br><_from_".
$notifications_page[$x]['first_name']. " " . $notifications_page[$x]['last_name']. " _on_". $notifications_page[$x]['notif_timestamp']. "</span></a></li>";
}
}
}
else if($notifications_page[$x]['notif-type'] == 3){
echo "<li><a href='". base_url('/notificationdetails/'. $notifications_page[$x]['notif_id']). "'><span class='author'><span class='notif'>".
$notifications_page[$x]['notif_location']. " 's_stock_deliveries_have_been_confirmed!</span></br><_from_".
$notifications_page[$x]['first_name']. " " . $notifications_page[$x]['last_name']. " _on_". $notifications_page[$x]['notif_timestamp']. "</span></a></li>";
}
}
}
else if($notifications_page[$x]['notif-type'] == 1){
echo "<li><a href='". base_url('/notificationdetails/'. $notifications_page[$x]['notif_id']). "'><span class='author'><span class='notif'>".
$notifications_page[$x]['notif_location']. " 's_stocks_are_running_out!</span></br><_triggered_by_". $notifications_page[$x]['first_name']. " " . $notifications_page[$x]['last_name']. " _on_". $notifications_page[$x]['notif_timestamp']. "</span></a></li>";
}
}
}
else if($notifications_page[$x]['notif-type'] == 4){
echo "<li><a href='". base_url('/notificationdetails/'. $notifications_page[$x]['notif_id']). "'><span class='author'><span class='notif'>".
$notifications_page[$x]['notif_location']. " 's_stocks_need_confirmation_for_pullout.</span></br><_from_".
$notifications_page[$x]['first_name']. " " . $notifications_page[$x]['last_name']. " _on_". $notifications_page[$x]['notif_timestamp']. "</span></a></li>";
}
}
}
else if($notifications_page[$x]['notif-type'] == 5){
echo "<li><a href='". base_url('/

```

```

notificationdetails/'. $notifications_page
[$x][ 'notif_id' ])." '><span_class='author
'><span_class='notif'>".
$notifications_page[$x][ 'notif_location '
]." 's_stock_pullouts_have_been_confirmed
!</span></br>_from_". $notifications_page [
$x][ 'first_name' ]. "_". $notifications_page
[$x][ 'last_name' ]. "_on_".
$notifications_page[$x][ 'notif_timestamp '
]." </span></a></li>";
} else if ($notifications_page[$x][ 'notif_type ' ]
== 6){
echo " <li><a_href='". base_url (' /
notificationdetails/'. $notifications_page
[$x][ 'notif_id' ])." '><span_class='author
'><span_class='notif'>".
$notifications_page[$x][ 'notif_location '
]." 's_transaction_have_been_rejected!</
span></br>_from_". $notifications_page [$x
][ 'first_name' ]. "_". $notifications_page [
$x][ 'last_name' ]. "_on_".
$notifications_page[$x][ 'notif_timestamp '
]." </span></a></li>";
} else if ($notifications_page[$x][ 'notif_type ' ]
== 7){
echo " <li><a_href='". base_url (' /
notificationdetails/'. $notifications_page
[$x][ 'notif_id' ])." '><span_class='author
'><span_class='notif'>".
$notifications_page[$x][ 'notif_location '
]." _has_sent_a_delivery_request!</span></
br>_from_". $notifications_page[$x][ '
first_name' ]. "_". $notifications_page[$x][
'last_name' ]. "_on_". $notifications_page [
$x][ 'notif_timestamp' ]." </span></a></li>"
;
} else if ($notifications_page[$x][ 'notif_type ' ]
== 8){
echo " <li><a_href='". base_url (' /approveusers/
'. $notifications_page[$x][ 'notif_id' ])."
'><span_class='author'><span_class='notif
'>". $notifications_page[$x][ 'first_name '
]." ". $notifications_page[$x][ 'last_name '
]." _needs_confirmation.</span></br>_from_
". $notifications_page[$x][ 'first_name' ]. "
_". $notifications_page[$x][ 'last_name' ]. "
_on_". $notifications_page[$x][ '
notif_timestamp ' ]." </span></a></li>";
}
}
echo "<hr>";
}
echo "<a_href='". base_url (' /notifications/')."
'>View_More_Notifications... </a>";
} else{
echo "No_recent_notifications.";
}
?>
</div>
</div>
</div>
<?php if($_SESSION['role'] == 2 || $_SESSION['
role'] == 3 || $_SESSION['role'] == 4 )
{?>
<div class="panel-wrapper">
<div class="panel_panel-primary_filters-panel_
border-violet">
<div class="panel-heading_panel-violet">
Kiosk Sales for the last week
</div>
<div class="panel-body">
<div id="week-sales"></div>
</div>
</div>
<?php } ?>
</div>
<script src="<?php_echo_base_url('assets/
highcharts/js/highcharts.js')?>"></script
>
<script src="<?php_echo_base_url('assets/
highcharts/js/modules/exporting.js')?>"
></script>
<script src="<?php_echo_base_url('assets/
highcharts/js/modules/offline-exporting.
js')?>"></script>
<script>
<?php if($_SESSION['role'] == 2 || $_SESSION['
role'] == 3 || $_SESSION['role'] == 4 )
{?>
$(function () {
$('#week-sales').highcharts({
title: {
text: 'Sales_for_the_last_7_days',
x: -20 //center
},
xAxis: {
categories: <?php_echo json_encode(
array_column($week_sales, 'date'))?>
},
yAxis: {
title: {
text: 'Amount_(P)'
},
plotLines: [{
value: 0,
width: 1,
color: '#808080'
}],
tooltip: {
valuePrefix: 'P_'
},
legend: {
layout: 'vertical',
align: 'right',
verticalAlign: 'middle',
borderWidth: 0
},
series: [
{

```

```

name: "<?php_echo_{$kiosk_name_?}>",
data: "<?php_echo json_encode(array_column(
    $week_sales, 'sales'), JSON_NUMERIC_CHECK
)?>"
}
]
});
});
<?php } ?>
</script>

```

```

}
?>
</tbody>
<tfoot>
<tr>
<th>Total:</th>
<th></th>
<th><?
$sum_q=0;
$sum_a=0;
$sum_del_q=0;
$sum_del_a=0;
$sum_onh_q=0;
$sum_onh_a=0;
for($x=0; $x < count($breakdown); $x++){
$sum_q += $breakdown[$x]['quantity'];
$sum_a += $breakdown[$x]['amount'];
$sum_del_q += $breakdown[$x]['
delivery_quantity'];
$sum_del_a += $breakdown[$x]['delivery_amount'];
$sum_onh_q += $breakdown[$x]['onhand_quantity'];
$sum_onh_a += $breakdown[$x]['onhand_amount'];
}
echo $sum_q;
?></th>
<th><? echo "P_". $sum_a; ?></th>
<th><? echo $sum_del_q; ?></th>
<th><? echo "P_". $sum_del_a; ?></th>
<th><? echo $sum_onh_q; ?></th>
<th><? echo "P_". $sum_onh_a; ?></th>
</tr>
</tfoot>
</table>

```

Kiosk/Region Breakdown View

```

<div class = "prodreg_body">
<h2 class="prodreg-header">View <? echo
    $breakdown_type ?> Breakdowns:</h2>
<div style="display: block" id="products-div">
<h4>Breakdown:</h4>
<table id="table1" class="table table-striped
table-bordered" cellspacing="0">
<thead>
<tr>
<th>Code</th>
<th width="15%">Product Name</th>
<th>Total Units</th>
<th>Total Sales Amount</th>
<th>Delivery</th>
<th>Delivery Total</th>
<th>On-hand Quantity*</th>
<th>On-hand Total*</th>
</tr>
</thead>
<tbody>
<?php
for($x=0; $x < count($breakdown); $x++){
echo "<tr>";
echo "<th>". $breakdown[$x]['code']. "</th>";
if($breakdown_type == 'Regional'){
echo "<th><a href='". base_url('/
reportbreakdown/'. $breakdown[$x]['code'].
'/'. $startDate. '/'. $endDate). "' _target="
. $x. "'>". $breakdown[$x]['name']. "</a></th
>";
} else {
echo "<th>". $breakdown[$x]['name']. "_".
$breakdown[$x]['variant']. "</th>";
}
echo "<th>". $breakdown[$x]['quantity']. "</th>"
;
echo "<th>_P_". $breakdown[$x]['amount']. "</th>"
;
echo "<th>". $breakdown[$x]['delivery_quantity']
. "</th>";
echo "<th>_P_". $breakdown[$x]['delivery_amount']
. "</th>";
echo "<th>". $breakdown[$x]['onhand_quantity'].
"</th>";
echo "<th>_P_". $breakdown[$x]['onhand_amount']
. "</th>";
echo "</tr>";

```

```

* Stocks on-hand are up to date regardless of
date input.
</div>
</div>
</div>
<script src="<?php_echo_base_url('assets/
datatables/js/jquery.dataTables.min.js')
?"></script>
<script src="<?php_echo_base_url('assets/
datatables/js/dataTables.bootstrap.js')?"
"></script>
<script>
$(document).ready(function() {
$('#table1').DataTable();
}
);
</script>

```

Pullout/Delivery Kiosk Selection View

```

<div class = "prodreg_body">
<h2 class="prodreg-header"><? if($title == '
Pullout_Stocks') echo "Pullout_Stocks";
else echo "Product_Delivery" ?></h2>
<div class="container">

```



```

        $notifications[$x]['notif_timestamp'])."</
        span></a></li>";
    }else if($notifications[$x]['notif_type'] ==
    4){
    echo "<li><a href=\"" . base_url('/
    notificationdetails/'. $notifications[$x][
    'notif_id']) . "><span class='author2'><
    span class='notif'>". $notifications[$x][
    'notif_location'] . " 's_stocks_need_
    confirmation_for_pullout..."</span></br>...
    from..." . $notifications[$x]['first_name'] . "
    " . $notifications[$x]['last_name'] . "_on_"
    . $notifications[$x]['notif_timestamp'] . "</
    span></a></li>";
    }else if($notifications[$x]['notif_type'] ==
    5){
    echo "<li><a href=\"" . base_url('/
    notificationdetails/'. $notifications[$x][
    'notif_id']) . "><span class='author2'><
    span class='notif'>". $notifications[$x][
    'notif_location'] . " 's_stock_pullouts_have_
    been_confirmed!..."</span></br>...from..."
    . $notifications[$x]['first_name'] . "..."
    . $notifications[$x]['last_name'] . "_on_" .
    $notifications[$x]['notif_timestamp'] . "</
    span></a></li>";
    }else if($notifications[$x]['notif_type'] ==
    6){
    echo "<li><a href=\"" . base_url('/
    notificationdetails/'. $notifications[$x][
    'notif_id']) . "><span class='author2'><
    span class='notif'>". $notifications[$x][
    'notif_location'] . " 's_transaction_have_
    been_rejected!..."</span></br>...from..."
    . $notifications[$x]['first_name'] . "..."
    . $notifications[$x]['last_name'] . "_on_" .
    $notifications[$x]['notif_timestamp'] . "</
    span></a></li>";
    }else if($notifications[$x]['notif_type'] ==
    7){
    echo "<li><a href=\"" . base_url('/
    notificationdetails/'. $notifications[$x][
    'notif_id']) . "><span class='author2'><
    span class='notif'>". $notifications[$x][
    'notif_location'] . " _has_sent_a_delivery_
    request!..."</span></br>...from..."
    . $notifications[$x]['first_name'] . "..."
    . $notifications[$x]['last_name'] . "_on_" .
    $notifications[$x]['notif_timestamp'] . "</
    span></a></li>";
    }else if($notifications[$x]['notif_type'] ==
    8){
    echo "<li><a href=\"" . base_url('/approveusers/
    ' . $Notifications[$x]['notif_id']) . "><
    span class='author2'><span class='notif'>
    " . $notifications[$x]['first_name'] . "..."
    . $notifications[$x]['last_name'] . "_needs_
    confirmation..."</span></br>...from..."
    . $notifications[$x]['first_name'] . "..."
    . $notifications[$x]['last_name'] . "_on_"
    $notifications[$x]['notif_timestamp'] . "</
    span></a></li>";
    }

    $notifications[$x]['notif_timestamp'])."</
    span></a></li>";
    }
    }else{
    echo "<li><a href='#'>_No_unread_
    notifications..."</a></li>";
    }
    }
    echo "<li><a href=\"" . base_url("/notifications/
    ") . ">_View_recent_notifications..."</a></li
    >";
    ?>
</ul>
</li>
<li><a href="<?php_echo_base_url("/logout/");_
?>" class="link">Logout</a></li>
</ul>
</div>
</div>
</nav>
<div class="container-sidebar">
<div class="row">
<div class="col-sm-3_col-md-3">
<div class="panel-group" id="accordion">
<div class="panel_panel-default">
<div class="panel_heading_<?php_if($title_====
"Dashboard"){$_echo_'active';}?>">
<h4 class="panel-title">
<a data-toggle="collapse" data-parent="#
accordion" href="#"><span class="glyphicon
_glyphicon-dashboard">
</span><a href = "<?php_echo_base_url("/
dashboard/");_?>"> Dashboard</a></a>
</h4>
</div>
</div>
<div class="panel_panel-default" <?php_if(
$_SESSION['role'] != 2 && $_SESSION['role
'] != 3 && $_SESSION['role'] != 5){_echo
" style='display:none;_";_}?> >
<div class="panel_heading_<?php_if($title_====
"Register Kiosk"_)||_ $title_===="Update
Kiosk Information"_)||_ $title_===="Set
Product Threshold"_){$_echo_'active';}?>">
<h4 class="panel-title">
<a data-toggle="collapse" data-parent="#
accordion" href="#collapseTwo"><span
class="glyphicon_glyphicon-home">
</span>> Kiosks</a>
</h4>
</div>
<div id="collapseTwo" class="panel_collapse_
collapse_<?if($title_===='Register_Kiosk'
_)||_ $title_===='Update_Kiosk_Information'
_)||_ $title_===='Update_Kiosk_Location'_)||
_)||_ $title_===='Kiosk_Location'_)||_ $title_
===='Set_Product_Threshold'){$_echo_'in
';}?>">
<div class="panel-body">
<table class="table">

```

```

<?php if($_SESSION['role'] == 2){ ?>
<tr>
<td class = "<?php_if($title == "Register
Kiosk") { _echo_ 'active'; } ?>">
<a href = "<?php_echo_base_url("/kioskreg/"); _?>"
class = "<?php_if($title == "Register
Kiosk") { _echo_ 'sub-active'; } ?>"> Register
Kiosk</a>
</td>
</tr>
<?php } ?>
<?php if($_SESSION['role'] == 2 || $_SESSION['
role'] == 3){ ?>
<tr>
<td class = "<?php_if($title == "Update Kiosk
Information") { _echo_ 'active'; } ?>">
<a href = "<?php_echo_base_url("/updatekiosk/");
_?>" class = "<?php_if($title == "Update
Kiosk Information") { _echo_ 'sub-active
'; } ?>" >Update Kiosk Information</a>
</td>
</tr>
<?php } ?>
<?php if($_SESSION['role'] == 2){ ?>
<tr>
<td class = "<?php_if($title == "Kiosk
Location") { _echo_ 'active'; } ?>">
<a href = "<?php_echo_base_url("/kioskloc/"); _?>"
class = "<?php_if($title == "Kiosk
Location") { _echo_ 'sub-active'; } ?>" >
Kiosk Location</a>
</td>
</tr>
<tr>
<td class = "<?php_if($title == "Update Kiosk
Location") { _echo_ 'active'; } ?>">
<a href = "<?php_echo_base_url("/editkioskloc/");
_?>" class = "<?php_if($title == "Update
Kiosk Location") { _echo_ 'sub-active'; } ?>"
>Update Kiosk Location</a>
</td>
</tr>
<?php } ?>
<?php if($_SESSION['role'] == 3 || $_SESSION['
role'] == 5){ ?>
<tr>
<td class = "<?php_if($title == "Set Product
Threshold") { _echo_ 'active'; } ?>">
<a href = "<?php_echo_base_url("/setthreshold/");
_?>" class = "<?php_if($title == "Set
Product Threshold") { _echo_ 'sub-active
'; } ?>" >Set Product Threshold</a>
</td>
</tr>
<?php } ?>
</table>
</div>
</div>
</div>
<div class = "panel_panel-default" <?php if(
$_SESSION['role'] != 2 && $_SESSION['role']
!= 5){ echo "style='display:none; '_?>
?>>
<div class = "panel-heading_<?php_if($title ==
"Register Product") { _echo_ 'active'; } ?>">
"Register Product" _|| _$title == "Update
Product Information") { _echo_ 'active'; } ?>
">
<h4 class = "panel-title">
<a data-toggle = "collapse" data-parent = "#
accordion" href = "#collapseThree"><span
class = "glyphicon glyphicon-briefcase">
</span> Products</a>
</h4>
</div>
<div id = "collapseThree" class = "panel-collapse_
collapse_<?if($title == "Register_
Product" _|| _$title == "Update_Product_
Information" _){ _echo_ 'in'; } ?>">
<div class = "panel-body">
<table class = "table">
<tr>
<td class = "<?php_if($title == "Register
Product") { _echo_ 'active'; } ?>">
<a href = "<?php_echo_base_url("/prodreg/"); _?>"
class = "<?php_if($title == "Register
Product") { _echo_ 'sub-active'; } ?>">
Register Product</a>
</td>
</tr>
<tr>
<td class = "<?php_if($title == "Update Product
Information") { _echo_ 'active'; } ?>">
<a href = "<?php_echo_base_url("/updateprod/"); _
?>" class = "<?php_if($title == "Update
Product Information") { _echo_ 'sub-active
'; } ?>">Update Product Information</a>
</td>
</tr>
</table>
</div>
</div>
</div>
<div class = "panel_panel-default" <?php if(
$_SESSION['role'] != 3 && $_SESSION['role']
!= 2){ echo "style='display:none; '_?>
; } ?>>
<div class = "panel-heading_<?php_if($title ==
"View_Kiosk_Reports" _|| _$title == "View_
Product_Reports" _|| _$title == "View_
Region_Reports" _|| _$title == "Sales_
Progress_Report" _){ _echo_ 'active'; } ?>">
<h4 class = "panel-title">
<a data-toggle = "collapse" data-parent = "#
accordion" href = "#collapseFour"><span
class = "glyphicon glyphicon-file">
</span> Reports</a>
</h4>
</div>
<div id = "collapseFour" class = "panel-collapse_
collapse_<?if($title == "View_Kiosk_

```



```

        Reports'_|_|_ $title _==_'View_Product_
        Reports'_|_|_ $title _==_'View_Region_
        Reports'_|_|_ $title _==_'Sales_Progress_
        Report') { _echo_'in'; }?>">
<div class="panel-body">
<table class="table">
<?php if($_SESSION['role'] == 2 || $_SESSION['
        role'] == 3){ ?>
<tr>
<td class="<?php_if($title _==_'View Kiosk
        Reports'){ _echo_'active'; }?>">
<a href="<?php_echo_base_url("/kioskreports/"
        );_?>" class = "<?php_if($title _==_'View
        Kiosk Reports'){ _echo_'sub-active'; }?>">
        Kiosk Reports</a>
</td>
</tr>
<?php } ?>
<?php if($_SESSION['role'] == 2){ ?>
<tr>
<td class="<?php_if($title _==_'View Product
        Reports'){ _echo_'active'; }?>">
<a href="<?php_echo_base_url("/productreports/"
        );_?>" class = "<?php_if($title _==_'
        View Product Reports'){ _echo_'sub-active
        '; }?>">Product Reports</a>
</td>
</tr>
<tr>
<td class="<?php_if($title _==_'View Region
        Reports'){ _echo_'active'; }?>">
<a href="<?php_echo_base_url("/regionreports/"
        );_?>" class = "<?php_if($title _==_'View
        Region Reports'){ _echo_'sub-active'; }?>"
        >Region Reports</a>
</td>
</tr>
<tr>
<td class="<?php_if($title _==_'Sales Progress
        Report'){ _echo_'active'; }?>">
<a href="<?php_echo_base_url("/salesreport/"
        );_?>" class = "<?php_if($title _==_'Sales
        Progress Report'){ _echo_'sub-active'; }?>"
        >Sales Progress Report</a>
</td>
</tr>
<?php } ?>
</table>
</div>
</div>
<div class="panel_panel-default" <?php if(
        $_SESSION['role'] != 2){ echo "style='
        display:none;'_" ; } ?>>
<div class="panel-heading_<?php_if($title _==_'
        View_Kiosk_Analytics'_|_|_ $title _==_'
        View_Product_Analytics'_|_|_ $title _==_'
        View_Total_Sales_Analytics') { _echo_'
        active'; }?>">
<h4 class="panel-title">
<a data-toggle="collapse" data-parent="#
        accordion" href="#collapseSeven"><span
        class="glyphicon glyphicon-stats">
</span> Analytics</a>
</h4>
</div>
<div id="collapseSeven" class="panel-collapse_
        collapse_<?if($title _==_'View_Kiosk_
        Analytics'_|_|_ $title _==_'View_Product_
        Analytics'_|_|_ $title _==_'View_Total_
        Sales_Analytics') { _echo_'in'; }?>">
<div class="panel-body">
<table class="table">
<tr>
<td class="<?php_if($title _==_'View Kiosk
        Analytics'){ _echo_'active'; }?>">
<a href="<?php_echo_base_url("/kioskanalytics/"
        );_?>" class = "<?php_if($title _==_'
        View Kiosk Analytics'){ _echo_'sub-active
        '; }?>">Kiosk Analytics</a>
</td>
</tr>
<tr>
<td class="<?php_if($title _==_'View Product
        Analytics'){ _echo_'active'; }?>">
<a href="<?php_echo_base_url("/
        productanalytics/" );_?>" class = "<?php_
        if($title _==_'View Product Analytics'){ _
        echo_'sub-active'; }?>">Product Analytics
        </a>
</td>
</tr>
<tr>
<td class="<?php_if($title _==_'View Total
        Sales Analytics'){ _echo_'active'; }?>">
<a href="<?php_echo_base_url("/totalanalytics/"
        );_?>" class = "<?php_if($title _==_'
        View Total Sales Analytics'){ _echo_'sub-
        active'; }?>">View Total Sales Analytics</
        a>
</td>
</tr>
</table>
</div>
</div>
<div class="panel_panel-default" <?php if(
        $_SESSION['role'] == 1 ){ echo "style='
        display:none;'_" ; } ?>>
<div class="panel-heading_<?php_if($title _==_'
        Warehouse'_|_|_ $title _==_'Deliver
        Products'_|_|_ $title _==_'Pullout Stocks'_|
        |_|_ $title _==_'Update_Sales'_|_|_ $title _
        ==_'Condemned_Items'_|_|_ $title _==_'
        Trace_Transactions') { _echo_'active'; }?>">
<h4 class="panel-title">
<a data-toggle="collapse" data-parent="#
        accordion" href="#collapseFive"><span
        class="glyphicon glyphicon-shopping-cart"
        >

```

```

</span> Transactions</a>
</h4>
</div>
<div id="collapseFive" class="panel-collapse
collapse_<?if ($title == 'Warehouse' ||
$title == 'Deliver_Products' || $title
== 'Pullout_Stocks' || $title ==
Update_Sales' || $title == 'Condemned_
Items' || $title == 'Trace_Transactions
') { _echo_'in'; } ?>">
<div class="panel-body">
<table class="table">
<?php if($_SESSION['role'] == 5){ ?>
<tr>
<td class="<?php_if ($title == 'Warehouse') { _
echo_'active'; } ?>">
<a href="<?php_echo_base_url("/warehouse/"); _
?>" class = "<?php_if ($title == "
Warehouse") { _echo_'sub-active'; } ?>">
Update Warehouse Stocks</a>
</td>
</tr>
<tr>
<td class="<?php_if ($title == 'Deliver
Products') { _echo_'active'; } ?>">
<a href="<?php_echo_base_url("/deliverproducts
/"); _?>" class = "<?php_if ($title == "
Deliver_Products") { _echo_'sub-active'; } ?>
">Deliver Products</a>
</td>
</tr>
<?php } ?>
<?php if($_SESSION['role'] == 3){ ?>
<tr>
<td class="<?php_if ($title == 'Pullout Stocks
') { _echo_'active'; } ?>">
<a href="<?php_echo_base_url("/pullout/"); _?>"
class = "<?php_if ($title == "Pullout
Stocks") { _echo_'sub-active'; } ?>">Pullout
Stocks</a>
</td>
</tr>
<?php } ?>
<?php if($_SESSION['role'] == 4){ ?>
<tr>
<td class="<?php_if ($title == 'Update Sales')
{ _echo_'active'; } ?>">
<a href="<?php_echo_base_url("/transaction/");
_?>" class = "<?php_if ($title == "Update
Sales") { _echo_'sub-active'; } ?>">Update
Sales</a>
</td>
</tr>
<?php } ?>
<?php if($_SESSION['role'] == 4 || $_SESSION['
role'] == 5){ ?>
<tr>
<td class="<?php_if ($title == 'Condemned
Items') { _echo_'active'; } ?>">
<a href="<?php_echo_base_url("/misctransaction
/"); _?>" class = "<?php_if ($title == "
Condemned Items") { _echo_'sub-active'; } ?>"
>Condemned Items</a>
</td>
</tr>
<?php } ?>
<?php if($_SESSION['role'] == 2){ ?>
<tr>
<td class="<?php_if ($title == 'Trace
Transactions') { _echo_'active'; } ?>">
<a href="<?php_echo_base_url("/
recenttransactions/"); _?>" class = "<?php
_if ($title == "Trace Transactions") { _
echo_'sub-active'; } ?>">Trace Transactions
</a>
</td>
</tr>
<?php } ?>
</table>
</div>
</div>
<div class="panel_panel-default">
<div class="panel-heading_<?php_if ($title ==
'Approve Users' || $title == 'View
Profile') { _echo_'active'; } ?>">
<h4 class="panel-title">
<a data-toggle="collapse" data-parent="#
accordion" href="#collapseSix"><span
class="glyphicon glyphicon-user">
</span> User</a>
</h4>
</div>
<div id="collapseSix" class="panel-collapse_
collapse_<?if ($title == 'Approve_Users' _
|| $title == 'Deactivate_Users' _ || _
$title == 'View_Profile') { _echo_'in'; } ?>
">
<div class="panel-body">
<table class="table">
<?php if($_SESSION['role'] == 1){ ?>
<tr>
<td class="<?php_if ($title == 'Approve Users'
) { _echo_'active'; } ?>">
<a href="<?php_echo_base_url("/approveusers/")
; _?>" class = "<?php_if ($title == "
Approve Users") { _echo_'sub-active'; } ?>">
Approve Users</a>
</td>
</tr>
<tr>
<td class="<?php_if ($title == 'Deactivate
Users') { _echo_'active'; } ?>">
<a href="<?php_echo_base_url("/deactivateusers
/"); _?>" class = "<?php_if ($title == "
Deactivate Users") { _echo_'sub-active'; } ?>
">Deactivate Users</a>
</td>
</tr>
</table>
</div>

```

```

<?php } ?>
<tr>
<td class="<?php_if($title == "View Profile")
{ _echo_ 'active'; }?>">
<a href="<?php_echo_base_url("/profile/"); _?>"
class = "<?php_if($title == "View
Profile"){ _echo_ 'sub-active'; }?>">View
Profile </a>
</td>
</tr>
</table>
</div>
</div>
</div>
</div>
</div>
</div>
</div>
</div>

```

Kiosk Region View Selection

```

<div class = "prodreg_body">
<h2 class="prodreg_header">Update Kiosk
Information </h2>
<div class="container">
<form>
<table id="table" class="table table-striped
table-bordered" cellspacing="0">
<thead>
<tr>
<th>ID</th>
<th>Kiosk Location</th>
<th></th>
</tr>
</thead>
<tbody>
<?php
for($x = 0; $x < count($locs); $x++){
echo "<tr>";
echo "<th>". $locs[$x]['location_id']. "</th>";
echo "<th>". $locs[$x]['location_name']. "</th>";
;
echo "<th><button_type='button' _class='btn btn
-lg btn-clr'><a_href='". base_url('/
updatekioskloc/'. $locs[$x]['location_id']
) .' _class='clear'>Edit</a></button></th
>";
echo "</tr>";
}
?>
</tbody>
<tfoot>
<tr>
<th>ID</th>
<th>Kiosk Location</th>
<th></th>
</tr>
</tfoot>
</table>
</div>

```

```

</form>
<script src="<?php_echo_base_url('assets/
jquery/jquery-2.1.4.min.js')?>"></script>
<script src="<?php_echo_base_url('assets/
bootstrap/js/bootstrap.min.js')?>"></
script>
<script src="<?php_echo_base_url('assets/
datatables/js/jquery.dataTables.min.js')
?>"></script>
<script src="<?php_echo_base_url('assets/
datatables/js/dataTables.bootstrap.js')?>"
"></script>
</div>
<script>
function activateBox(){
if(document.getElementById("gen_prod_code").
value == "on"){
document.getElementById("prod_code").disabled
= false;
} else if(document.getElementById("
gen_prod_code").value == "off"){
document.getElementById("prod_code").disabled
= true;
}
}
$(document).ready(function() {
$('#table').DataTable();
});
</script>
<script src="<?php_echo_base_url('assets/
jquery/jquery-2.1.4.min.js')?>"></script>
<script src="<?php_echo_base_url('assets/
bootstrap/js/bootstrap.min.js')?>"></
script>
<script src="<?php_echo_base_url('assets/
datatables/js/jquery.dataTables.min.js')
?>"></script>
<script src="<?php_echo_base_url('assets/
datatables/js/dataTables.bootstrap.js')?>"
"></script>

```

Kiosk Registration/Update Kiosk Information View

```

<?php
if(isset($kiosk)){
$exist = true;
echo form_open('editkiosk');
} else {
$exist = false;
echo form_open('savekiosk');
}
?>
<div class = "prodreg_body">
<h2 class="prodreg_header">Kiosk Registration
Form</h2>
<form>
<?php

```

```

if($exist){
echo "<input_type='hidden'_name='kiosk_id'_
_id='kiosk_id'_value='.$kiosk_id.'"></
input>";
}
?>
<div class="form-table">
<label class="control-label">Kiosk Name:</
label>
<input type="text" id="kiosk_name" name = "
kiosk_name" class="form-control"
placeholder="Kiosk_Name" value = "<?php
if($exist){echo_$kiosk['kiosk_name'];}
else{echo_"";}_?>" required autofocus>
</br>
<label class="control-label">Kiosk Location:</
label>
<select name="kiosk_location" id="
kiosk_location" class="form-control">
<?php
for($x=0; $x<count($location); $x++){
if($location[$x]['location_id'] == $kiosk['
location_id']){
echo "<option_value='".$location[$x]['
location_id']."' _selected>".$location[$x
]['location_name' ]."</option>";
} else{
echo "<option_value='".$location[$x]['
location_id']."' _selected>".$location[$x]['
location_name' ]."</option>";
}
}
?>
</select>
</br>
<?if(!$exist && isset($products)){?>
<input type="checkbox" id="new_kiosk" onchange
="hide_products()" checked> <b>New Kiosk
</b> (uncheck if kiosks contain products
before registration)</input>
</br></br>
<?}?>
</div>
<div <?php if($_SESSION['role'] == 3 ){?>
style="display:none;" <?php } ?> >
<label class="control-label">Kiosk Personnel
:</label>
<table id="table1" class="table_table-striped_
table-bordered" cellspacing="0">
<thead>
<tr>
<th id="head1">ID</th>
<th id="head2">First Name</th>
<th id="head3">Last Name</th>
<th id="head4">Sex</th>
<th id="head5"></th>
</tr>
</thead>
<tbody>
<?php
for($x = 0; $x < count($supervisor); $x++){
echo "<tr>";
echo "<th_id='head1'>".$supervisor[$x][ '
user_id' ]."</th>";
echo "<th_id='head2'>".$supervisor[$x][ '
first_name' ]."</th>";
echo "<th_id='head3'>".$supervisor[$x][ '
last_name' ]."</th>";
echo "<th_id='head4'>".$supervisor[$x][ 'sex' ].
"</th>";
echo "<th_id='head5'><input_type='checkbox'_id
='sales_personnel'_name='
sales_personnel['_value='.'"$supervisor[
$x]['user_id' ]. "'";
if($exist && in_array($supervisor[$x][ 'user_id
'], $assignments)){
echo "checked";

```

```

}
echo "></input></th>";
echo "</tr>";
}
?>
</tbody>
</table>
</div>
</br>
<?if (!$exist && isset($products)){
?>
<div id="products-div-initial" style="display:
none;">
<label class="control-label">Initial Products
Deployed:</label>
<table id="table3" class="table table-striped
table-bordered" cellspacing="0">
<thead>
<tr>
<th id="head1_products">Code</th>
<th id="head2_products">Product Name</th>
<th id="head3_products">Variant</th>
<th id="head4_products">SRP</th>
<th id="head5_products"></th>
</tr>
</thead>
<tbody>
<?php
for($x = 0; $x < count($products); $x++){
echo "<tr>";
echo "<th_id='head1_products'>". $products[$x][
'code' ]. "</th>";
echo "<th_id='head2_products'>". $products[$x][
'name' ]. "</th>";
echo "<th_id='head3_products'>". $products[$x][
'variant' ]. "</th>";
echo "<th_id='head4_products'>". $products[$x][
'srp' ]. "</th>";
echo "<th_id='head5_products' _class='quantity-
input'><input_id='quantity_touchspin' _
type='text' _value='0' _name='". $products[
$x][ 'code' ]. "'></th>";
echo "</tr>";
}
?>
</tbody>
</table>
</div>
<?}?>
<center>
<div>
<button type="submit" class="btn btn-primary
btn-lg"><span class="glyphicon glyphicon-
ok"> Register</span></button>
<button type="button" class="btn btn-lg btn-
clr"><a href="<?php_echo_base_url('/
signup/')?>" class="clear"><span class="
glyphicon glyphicon-remove"> Clear</span
></a></button>
</div>
</center>
</form>
</div>
<script src="<?php_echo_base_url('assets/
datatables/js/jquery.dataTables.min.js')
?>"></script>
<script src="<?php_echo_base_url('assets/
datatables/js/dataTables.bootstrap.js')?>
"></script>
<script src="<?php_echo_base_url('assets/
touchspin/jquery.bootstrap-touchspin.min.
js')?>"></script>
<script>
$(document).ready(function() {
$('#table1').DataTable({
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
});
$('#table2').DataTable({
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
});
$('#table3').DataTable({
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
});
});
</script>
<script>
$("input[id='quantity_touchspin']").TouchSpin
({
min: 0,
max: 1000,
initval: '',
replacementval: '',
forcestepdivisibility: 'round',
verticalbuttons: false,
verticalupclass: 'glyphicon glyphicon-
chevron-
up',
verticaldownclass: 'glyphicon glyphicon-
chevron-
down',
boostat: 5,
booster: true,
maxboostedstep: 10,
prefix_extraclass: '',
postfix_extraclass: '',
step: 1,
stepinterval: 100,
stepintervaldelay: 500,
mousewheel: true,
buttondown_class: 'btn btn-default',
buttonup_class: 'btn btn-default',
buttondown_txt: '-',
buttonup_txt: '+'
});
function hide_products(){
if(document.getElementById('products-div-

```

```

        initial').style.display == "none"){
document.getElementById('products-div-initial')
        ).style.display = "block";
} else{
document.getElementById('products-div-initial')
        ).style.display = "none";
}
}
}
</script>

```

```

}
?>
</tbody>
</tfoot>
<tr>
<th>ID</th>
<th>Name</th>
<th>Sales Personnel</th>
<th>Supervisor</th>
<th></th>
</tr>
</tfoot>
</table>
</div>
</form>

```

Update Kiosk Information Kiosk Selection View

```

<div class = "prodreg_body">
<h2 class="prodreg-header">Update Kiosk
    Information</h2>
<div class="container">
<form>
<table id="table" class="table table-striped
    table-bordered" cellspacing="0">
<thead>
<tr>
<th>ID</th>
<th>Name</th>
<th>Sales Personnel</th>
<th>Supervisor</th>
<th></th>
</tr>
</thead>
<tbody>
<?php
for($x = 1; $x < count($kiosks); $x++){
echo "<tr>";
echo "<th>". $kiosks[$x]['kiosk_id']. "</th>";
echo "<th>". $kiosks[$x]['kiosk_name']. "</th>";
$assign_sup = array();
echo "<th>";
for($y = 0; $y < count($kiosks[$x]['assignment
    ']); $y++){
$assign_arr = $kiosks[$x]['assignment'][$y];
if($assign_arr['role_id'] == 3){
array_push($assign_sup, $assign_arr);
} else if($assign_arr['role_id'] == 4){
echo $assign_arr['first_name']. " ". $assign_arr
    ['last_name']. "<br>";
}
}
echo "</th>";
echo "<th>";
for($y = 0; $y < count($assign_sup); $y++){
echo $assign_sup[$y]['first_name']. " ".
    $assign_sup[$y]['last_name']. "<br>";
}
echo "</th>";
echo "<th><button type='button' class='btn btn_
    -lg btn-clr'><a href='". base_url('/
    kiosreg/'. $kiosks[$x]['kiosk_id']). "' _
    class='clear'>Edit</a></button></th>";
echo "</tr>";

```

```

<script src="<?php_echo_base_url('assets/
    jquery/jquery-2.1.4.min.js')?>"></script>
<script src="<?php_echo_base_url('assets/
    bootstrap/js/bootstrap.min.js')?>"></
    script>
<script src="<?php_echo_base_url('assets/
    datatables/js/jquery.dataTables.min.js')
    ?>"></script>
<script src="<?php_echo_base_url('assets/
    datatables/js/dataTables.bootstrap.js')?>
    "></script>
</div>
<script>
function activateBox(){
if(document.getElementById("gen_prod_code").
    value == "on"){
document.getElementById("prod_code").disabled
    = false;
} else if(document.getElementById("
    gen_prod_code").value == "off"){
document.getElementById("prod_code").disabled
    = true;
}
}
$(document).ready(function() {
$('#table').DataTable();
});
</script>
<script src="<?php_echo_base_url('assets/
    jquery/jquery-2.1.4.min.js')?>"></script>
<script src="<?php_echo_base_url('assets/
    bootstrap/js/bootstrap.min.js')?>"></
    script>
<script src="<?php_echo_base_url('assets/
    datatables/js/jquery.dataTables.min.js')
    ?>"></script>
<script src="<?php_echo_base_url('assets/
    datatables/js/dataTables.bootstrap.js')?>
    "></script>
<?php

```

Region Registration/Update Region Name View

```

if(!isset($loc_details))
echo form_open('savelocation');
else
echo form_open('updatelocsucces')
?>
<div class = "prodreg_body">
<h2 class="prodreg-header">Location Form</h2>
<form>
<table class="form-table">
<tr>
<td class="td_1_td_top">
<label class="control-label">Kiosk Location:</label>
<input type="text" id="kiosk_location" name =
" kiosk_location" class="form-control"
placeholder="Kiosk_Location" value = "<?_
if( isset( $loc_details [0][ ' location_name
' ] ) ) { _echo_ $loc_details [0][ ' location_name
' ] ; _ } _?>" required autofocus>
<?
if( isset( $loc_details [0][ ' location_id ' ] ) ) {
echo "<input type='hidden' id='loc_id' name=_
' loc_id ' value=_
' $loc_details [0][ '
location_id ' ] . " _required_autofocus>" ;
}
?>
</br>
</td>
</tr>
<tr>
<td class="button_td_2">
<button type="submit" class="btn btn-primary _
btn-lg"><span class="glyphicon glyphicon-
ok"> Register </span></button>
<button type="button" class="btn btn-lg btn-
clr"><a href="<?php_echo_base_url( ' /
signup / ' ) ; ?>" class="clear"><span class="
glyphicon glyphicon-remove"> Clear </span
></a></button>
</td>
</tr>
</table>
</form>
</div>
</script>

```

Login Page

```

<html lang="en">
<head>
<title>Log In</title>
<link href="<?php_echo_base_url( ' / assets / css /
bootstrap.min.css ' ) ; ?>" rel="stylesheet">
<link href="<?php_echo_base_url( ' / assets / css /
ie10-viewport-bug-workaround.css ' ) ; ?>"
rel="stylesheet">
<link href="<?php_echo_base_url( ' / assets / css /
login.css ' ) ; ?>" rel="stylesheet">
<script src="<?php_echo_base_url( ' / assets / js /
ie-emulation-modes-warning.js ' ) ; ?>"></

```

```

script>
</head>
<body>
<?echo form_open( ' loginSession ' ) ; ?>
<div class="container">
</img>
<form class="form-signin">
<label for="username" class="sr-only"></label>
<strong>Username:</strong><input type="text"
id="username" name="username" class="form
-control" placeholder="Username" required
autofocus>
<strong>Password:</strong><label for="
inputPassword" class="sr-only">Password</
label>
<input type="password" id="inputPassword" name
="inputPassword" class="form-control"
placeholder="Password" required>
<div class="checkbox">
<label>
<input type="checkbox" value="remember-me">
Remember me
</label>
</div>
<button class="btn btn-lg btn-primary btn-
block" type="submit">Sign in</button>
</br>
<div class="signup">
Don't have an account yet? <a href="<?php_echo
_base_url( ' / signup ' ) ; ?>" _class="sign"><
button class="btn btn-lg btn-block btn-
sign" _type="button">Sign up</button></a>
</div>
</form>
</div>
<script _src="<?php_echo_base_url( ' assets / js /
ie10-viewport-bug-workaround.js ' ) ; ?>"></
script>
</body>
</html>

```

Register Condemned Items View

```

<div class = "prodreg_body">
<?php
echo form_open( ' savemisctransaction ' ) ;
?>
<h2 class="prodreg-header"><? echo $name ; ?></
h2>
<div class="container">
<form>
<br>
<input type = "hidden" name = "id" value = "<?
_echo_ $id ; ?>">
<br>
<table class="form-delivery">
<tr>
<td class="td_delivery">
<table id="table1" class="table table-striped _

```

```

        table-bordered" cellspacing="0">
<thead>
<tr>
<th>Code</th>
<th>Product Name</th>
<th>Transaction Type</th>
<th>Comment</th>
<th>Quantity Remaining</th>
<th></th>
</tr>
</thead>
<tbody>
<?php
for ($x = 0; $x < count($quantity); $x++){
echo "<tr>";
echo "<th>". $quantity[$x][ 'identifier' ]. '-'.
    $quantity[$x][ 'code' ]. "</th>";
echo "<th>". $quantity[$x][ 'name' ]. "-".
    $quantity[$x][ 'variant' ]. "</th>";
echo "<th>
<select _name='_'. $quantity[$x][ 'code' ]. '-'.
    transaction' ". '_class='form-control' _
    style='width:_100%'>
<option _value='_4'>_Tester_</option>
<option _value='_5'>_Damaged_</option>
<option _value='_6'>_Missing_</option>
</select></th>";
echo "<th><textarea _maxlength='75' _class='form-
-control' _name='". $quantity[$x][ 'code' ]. "'
-comment' _style='width:_100%'></textarea
></th>";
echo "<th>". $quantity[$x][ 'quantity' ]. "</th>";
echo "<th _class='quantity-input'><input _id='
quantity_touchspin' _type='text' _value='0'
_name='". $quantity[$x][ 'code' ]. "'></th>";
echo "</tr>";
}
?>
</tbody>
</table>
</td>
</tr>
<tr>
<td class="button_td_2">
<button type="submit" class="btn btn-primary _
btn-lg"><span class="glyphicon glyphicon-
ok"> Submit</span></button>
</td>
</tr>
</table>
</form>
</div>
</div>
<script src="<?php_echo_base_url('assets/
datatables/js/jquery.dataTables.min.js')
?"></script>
<script src="<?php_echo_base_url('assets/
datatables/js/dataTables.bootstrap.js')?"
"></script>
<script src="<?php_echo_base_url('assets/

```

```

touchspin/jquery.bootstrap-touchspin.min.
js')?"></script>
<script>
$(document).ready(function() {
$('#table1').DataTable({
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
});
});
</script>
<script>
<?php
for ($x = 0; $x < count($quantity); $x++){
?>
$("input[name='<?php_echo_ $quantity[$x][ 'code
']_?'>']").TouchSpin({
min: 0,
max: <?php_echo $quantity[$x][ 'quantity' ] ?>,
initval: '',
replacementval: '',
forcestepdivisibility: 'round',
verticalbuttons: false,
verticalupclass: 'glyphicon glyphicon-chevron-
up',
verticaldownclass: 'glyphicon glyphicon-
chevron-down',
boostat: 5,
booster: true,
maxboostedstep: 10,
prefix_extraclass: '',
postfix_extraclass: '',
step: 1,
stepinterval: 100,
stepintervaldelay: 500,
mousewheel: true,
buttondown_class: 'btn btn-default',
buttonup_class: 'btn btn-default',
buttondown_txt: '-',
buttonup_txt: '+'
});
<?php } ?>
</script>

```

Notification Details View

```

<? echo form_open('notificationaccept'); ?>
<div class = "prodreg_body">
<h2 class="prodreg-header"><? echo $title ?></
h2>
<div class="panel_panel-primary_filters -panel"
>
<div class="panel-heading">
<span class="panel-title">Details</span>
</div>
<div class="panel-body">
<center>
<b>
<table class="filters-table">
<tr>

```



```

<td>Sent by: <? echo $notification_details [0][
    'first_name' ]. " " . $notification_details
    [0][ 'last_name ' ]?></td>
<td>Sent on: <? echo $notification_details [0][
    'notif_timestamp' ] ?> </td>
<td><?php
if( $notification_details [0][ 'notif_type' ] ==
    2 || $notification_details [0][ '
    notif_type' ] == 3){
echo "Delivered_to:_" ;
}else if( $notification_details [0][ 'notif_type
    ' ] == 4 || $notification_details [0][ '
    notif_type' ] == 5){
echo "Pullout_Stocks_from:_" ;
}else{
echo "Kiosk_Requiring_Delivery:_" ;
}
echo $notification_details [0][ 'notif_location'
    ] ;
?>
</td>
<td><?php if($notification_details [0][ '
    approved' ] == 'T'){echo "Approved_by:_" .
    $approved [0][ 'first_name' ]. " " . $approved
    [0][ 'last_name' ];} ?> </td>
<?php if(isset($eta)) {?><td>Estimated Date of
    Arrival: <?php echo $eta ;?></td><?php }
?>
</tr>
</table>
</b>
</center>
</div>
</div>
<form>
<?php if(!empty($transaction_code)){?>
<div>
<center>
<table id="table3" class="table_table-striped_
    table-bordered" cellspacing="0">
<thead>
<tr>
<td><b>Transaction Code</b></td>
</tr>
</thead>
<tbody>
<?php
for($x = 0; $x < count($transaction_code); $x
    ++){
echo "<tr>
<td><b><a href='\" . base_url('/
    notificationdetails/' . $transaction_code [
    $x][ 'notif_id' ] ). \">_D_\" .
    $transaction_code [$x][ 'notif_id' ]. \"</a></
    b></td>
</tr>";
}
?>
</tbody>
</tfoot>

```



```

        approved'] == 'F' ){
?>
<center>
<button id="button" value="accept" name="
    button_confirmation" type="submit" class=
    "btn btn-primary btn-lg"><span class="
    glyphicon glyphicon-ok"> Submit</span></
    button>
</center>
<? }else if($notification_details[0]['
    notif_type'] == 7 &&
    $notification_details[0]['approved'] ==
    'F' ){ ?>
<button type="button" class="btn btn-lg btn-
    clr"><a href="<?php echo base_url('/
    delivery/'. $notification_details[0]['loc
    ']. '/' . $notification_details[0]['notif_id
    ']. '/' );?>" class="clear"> Deliver</a></
    button>
<? } else if(($notification_details[0]['
    notif_type'] == 1 &&
    $notification_details[0]['approved'] ==
    'F') && $notification_details[0]['loc'] >
    1 && $_SESSION['role'] == 3 ){ ?>
<input type="hidden" name="notif_loc" value="
    <?_echo_ $notification_details[0]['loc ']-
    ?>">
<center><button id="button" value="request"
    name="button_confirmation" type="submit"
    class="btn btn-primary btn-lg"><span
    class="glyphicon glyphicon-ok"> Submit</
    span></button></center>
<? } ?>
</div>
<?php if($_SESSION['role'] == 5 &&
    $notification_details[0]['notif_type'] ==
    3) || ($_SESSION['role'] == 3 &&
    $notification_details[0]['notif_type'] ==
    5)){ ?>
<div>
<button type="button" class="btn btn-lg btn-
    clr"><a href="<?php echo base_url('/
    retrievepdfreport/'. $notification_details
    [0]['notif_id ']);?>" class="clear"> Get
    PDF</a></button>
</div>
<? } ?>
</form>
</div>
<script src="<?php echo base_url('assets/
    datatables/jquery.dataTables.min.js ' )
    ?>"></script>
<script src="<?php echo base_url('assets/
    datatables/js/dataTables.bootstrap.js ')?>
    "></script>
<script src="<?php echo base_url('assets/
    touchspin/jquery.bootstrap-touchspin.min.
    js ')?>"></script>
<script>
<?php
        if(($notification_details[0]['notif_type'] ==
            2 || $notification_details[0]['notif_type
            '] == 4) && $notification_details[0]['
            approved'] == 'F' ){
?>
            $( '#table1' ).DataTable({
                "sScrollX": "100%",
                "scrollY": "200px",
                "paging": false
            } );
            <?php }else{ ?>
            $( '#table1' ).DataTable();
            <?php } ?>
            $(document).ready(function() {
                $( '#table2' ).DataTable({
                    "sScrollX": "100%",
                    "scrollY": "200px",
                    "paging": false
                } );
            });
            <?php
            if(!empty($transaction_code)){
?>
                $( '#table3' ).DataTable();
            <?php } ?>
            </script>
            <script>
            $( "input[id='quantity_touchspin']" ).TouchSpin
                ( {
                    min: 0,
                    max: 1000,
                    initval: '',
                    replacementval: '',
                    forcestepdivisibility: 'round',
                    verticalbuttons: false,
                    verticalupclass: 'glyphicon glyphicon-chevron-
                        up',
                    verticaldownclass: 'glyphicon glyphicon-
                        chevron-down',
                    boostat: 5,
                    booster: true,
                    maxboostedstep: 10,
                    prefix_extraclass: '',
                    postfix_extraclass: '',
                    step: 1,
                    stepinterval: 100,
                    stepintervaldelay: 500,
                    mousewheel: true,
                    buttondown_class: 'btn btn-default',
                    buttonup_class: 'btn btn-default',
                    buttondown_txt: '-',
                    buttonup_txt: '+'
                } );
            </script>
    }
}
</div>
<center><h2><?php echo $title; ?></h2></center>
<br/>

```

List of Notifications View

```

<div class = "body">
<center><h2><?php echo $title; ?></h2></center>
<br/>

```



```

from_" . $notifications_page[$x][ '
first_name ' ] . " " . $notifications_page[$x][
'last_name ' ] . " on " . $notifications_page [
$x][ 'notif.timestamp ' ] . "</span></a></li>"
;
} else if ($notifications_page[$x][ 'notif_type ' ]
= 3){
echo " <li><a href=" . base_url(' /
notificationdetails / ' . $notifications_page
[$x][ 'notif.id ' ] ) . "'><span class='author
'>" . $notifications_page[$x][ '
notif.location ' ] . " 's_stock_deliveries _
have_been_confirmed! </span></br>_from_" .
$notifications_page[$x][ 'first_name ' ] . " " .
$notifications_page[$x][ 'last_name ' ] . " " .
on_" . $notifications_page[$x][ '
notif.timestamp ' ] . "</span></a></li>" ;
} else if ($notifications_page[$x][ 'notif_type ' ]
= 1){
echo " <li><a href=" . base_url(' /
notificationdetails / ' . $notifications_page
[$x][ 'notif.id ' ] ) . "'><span class='author
'>" . $notifications_page[$x][ '
notif.location ' ] . " 's_stocks_are_running _
out! </span></br>_triggered_by_" .
$notifications_page[$x][ 'first_name ' ] . " " .
$notifications_page[$x][ 'last_name ' ] . " " .
on_" . $notifications_page[$x][ '
notif.timestamp ' ] . "</span></a></li>" ;
} else if ($notifications_page[$x][ 'notif_type ' ]
= 4){
echo " <li><a href=" . base_url(' /
notificationdetails / ' . $notifications_page
[$x][ 'notif.id ' ] ) . "'><span class='author
'>" . $notifications_page[$x][ '
notif.location ' ] . " 's_stocks_need _
confirmation_for_pullout. </span></br>_
from_" . $notifications_page[$x][ '
first_name ' ] . " " . $notifications_page[$x][
'last_name ' ] . " on " . $notifications_page [
$x][ 'notif.timestamp ' ] . "</span></a></li>"
;
} else if ($notifications_page[$x][ 'notif_type ' ]
= 5){
echo " <li><a href=" . base_url(' /
notificationdetails / ' . $notifications_page
[$x][ 'notif.id ' ] ) . "'><span class='author
'>" . $notifications_page[$x][ '
notif.location ' ] . " 's_stock_pullouts_have _
been_confirmed! </span></br>_from_" .
$notifications_page[$x][ 'first_name ' ] . " " .
$notifications_page[$x][ 'last_name ' ] . " " .
on_" . $notifications_page[$x][ '
notif.timestamp ' ] . "</span></a></li>" ;
} else if ($notifications_page[$x][ 'notif_type ' ]
= 6){
echo " <li><a href=" . base_url(' /
notificationdetails / ' . $notifications_page
[$x][ 'notif.id ' ] ) . "'><span class='author
'>" . $notifications_page[$x][ '
notif.location ' ] . " 's_transaction_have _
been_rejected! </span></br>_from_" .
$notifications_page[$x][ 'first_name ' ] . " " .
$notifications_page[$x][ 'last_name ' ] . " " .
on_" . $notifications_page[$x][ '
notif.timestamp ' ] . "</span></a></li>" ;
} else if ($notifications_page[$x][ 'notif_type ' ]
= 7){
echo " <li><a href=" . base_url(' /
notificationdetails / ' . $notifications_page
[$x][ 'notif.id ' ] ) . "'><span class='author
'>" . $notifications_page[$x][ '
notif.location ' ] . " _has_sent_a_delivery _
request! </span></br>_from_" .
$notifications_page[$x][ 'first_name ' ] . " " .
$notifications_page[$x][ 'last_name ' ] . " " .
on_" . $notifications_page[$x][ '
notif.timestamp ' ] . "</span></a></li>" ;
} else if ($notifications_page[$x][ 'notif_type ' ]
= 8){
echo " <li><a href=" . base_url(' /approveusers /
' . $notifications_page[$x][ 'notif.id ' ] ) . "
'><span class='author'>" .
$notifications_page[$x][ 'first_name ' ] . " " .
$notifications_page[$x][ 'last_name ' ] . " " .
needs_confirmation. </span></br>_from_" .
$notifications_page[$x][ 'first_name ' ] . " " .
$notifications_page[$x][ 'last_name ' ] . " " .
on_" . $notifications_page[$x][ '
notif.timestamp ' ] . "</span></a></li>" ;
}
}
}
echo "<hr>" ;
}
if(count($notifications_page) < 1){
echo " <li>No_recent_notifications.</li>" ;
}
?>
</ul>
</div>

```

PDF Header View

```

<html>
<head>
<title><? echo $title ?></title>
</head>
<body>
<strong>
<div style="text-align:center">
LA GLOBAL PRODUCT TRENDS, INC.<br />
UNIT 2D MARSK BLDG.<br />
738 AURORA BLVD COR.<br />
BALETE DRIVE, QUEZON CITY<br />
(02) 470-8986<br />
</div>
</strong>

```

Transaction PDF View

```

<?
$salesFilters = array('Total_Sales', 'Monthly_
    Average', 'Percent_Cont.', 'Daily_<br_>
    Average', 'Yearly_Average');
$otherFilters = array('Total_Deliveries', '
    Total_Stocks_On_Hand');
date_default_timezone_set("Asia/Manila");
echo "Report_created_on:<b>".date('Y-m-d')."
    ".date("h:i:sa")."</b><br_>";
if(isset($details[0]['eta']) && !empty(
    $details)){
echo "Estimated_delivery_arrival_date:<b>".
    $details[0]['eta']."</b><br_>";
}
if(!empty($details[0]['type'])){
if($details[0]['type'] == 2) echo "Delivered_
    to: "; else echo "Pullout_from: ";
}
if(!empty($details))echo "<b>". $details[0]['
    kiosk_name']."</b>";
?>
<div>
<h4><? if(!empty($detils)){if($details[0]['
    type'] == 2) echo "Delivered_items: ";
    else echo "Pulled_out_items: "; }?></h4>
<table>
<tr>
<td>
Code
</td>
<td>
Product Name
</td>
<td>
Quantity
</td>
<td>
Total Amount
</td>
</tr>
<?
for($x = 0; $x < count($details); $x++){
echo "<tr>";
echo "<td>". $details[$x]['code']. " - ". $details[
    $x]['identifier']."</td>";
echo "<td>". $details[$x]['name']. " - ". $details[
    $x]['variant']."</td>";
echo "<td>". $details[$x]['quantity']."</td>";
echo "<td>". $details[$x]['total_amount']."</td
    >";
echo "</tr>";
}
?>
</table>
</div>
</body>
</html>

```

Report PDF View

```

<?
$salesFilters = array('Total_Sales', 'Monthly_
    Average', 'Percent_Cont.', 'Daily_<br_>
    Average', 'Yearly_Average');
$otherFilters = array('Total_Deliveries', '
    Total_Stocks_On_Hand');
date_default_timezone_set("Asia/Manila");
echo "Report_created_on:<b>".date('Y-m-d')."
    ".date("h:i:sa")."</b><br_>";
echo "Start_Date:<b>". $startDate."</b><br_>";
;
echo "End_Date:<b>". $endDate."</b>";
?>
<div>
<? if(isset($report) && count($report) > 0){
    ?>
<h2><?php echo $title?> Sales Reports </h2>
<table>
<tr>
<th><?php echo $title?> Names</th>
<?
if(in_array(1, $kioskFilters)){
echo "<th>". $salesFilters[0]. "</th>";
echo "<th>". $salesFilters[0]. "</th>";
}
if(in_array(6, $kioskFilters)){
echo "<th>". $salesFilters[2]. "</th>";
echo "<th>". $salesFilters[2]. "</th>";
}
?>
</tr>
<?
for($x=0; $x<count($report); $x++){
if($report[$x]['quantity_total'] > 0){
echo "<tr>";
if($title == "Kiosk")
echo "<th>". $report[$x]['kiosk_name']. "</th>";
else if ($title == "Product")
echo "<th>". $report[$x]['product_name']. " - "
    . $report[$x]['product_variant']. "</th>";
else if ($title == "Region")
echo "<th>". $report[$x]['region_name']. "</th>";
;
if(in_array(1, $kioskFilters)){
echo "<th>". $report[$x]['quantity_total']. "</
    th>";
echo "<th>P_". $report[$x]['amount_total']. "</
    th>";
}
if(in_array(6, $kioskFilters)){
echo "<th>". floor($report[$x]['
    perc_quantity_total']). "%</th>";
echo "<th>". floor($report[$x]['
    perc_amount_total']). "%</th>";
}
echo "</tr>";
}
}
?>
</table>

```

```

</div>
<? } ?>
<? if(isset($report) && count($report) > 0){
    ?>
<div>
<h2><?php echo $title?> Average Sales Reports
</h2>
<table>
<tr>
<th>Kiosk Name</th>
<?
if(in_array(2, $kioskFilters)){
echo "<th>". $salesFilters [1]. "</th>";
echo "<th>". $salesFilters [1]. "</th>";
}
if(in_array(7, $kioskFilters)){
echo "<th>". $salesFilters [3]. "</th>";
echo "<th>". $salesFilters [3]. "</th>";
}
if(in_array(8, $kioskFilters)){
echo "<th>". $salesFilters [4]. "</th>";
echo "<th>". $salesFilters [4]. "</th>";
}
?>
</tr>
<?
for($x=0; $x<count($report); $x++){
if($report[$x]['quantity_total'] > 0){
echo "<tr>";
if($title == "Kiosk"){
echo "<th>". $report[$x]['kiosk_name']. "</th>";
else if($title == "Product"){
echo "<th>". $report[$x]['product_name']. "_".
    $report[$x]['product_variant']. "</th>";
else if($title == "Region"){
echo "<th>". $report[$x]['region_name']. "</th>";
}
if(in_array(2, $kioskFilters)){
echo "<th>". $report[$x]['
    monthly_average_quantity']. "</th>";
echo "<th>P_". $report[$x]['
    monthly_average_amount']. "</th>";
}
if(in_array(7, $kioskFilters)){
echo "<th>". $report[$x]['daily_quantity_total'
    ]. "</th>";
echo "<th>P_". round($report[$x]['
    daily_amount_total']). "</th>";
}
if(in_array(8, $kioskFilters)){
echo "<th>". $report[$x]['year_quantity_total'
    ]. "</th>";
echo "<th>P_". $report[$x]['year_amount_total'
    ]. "</th>";
}
echo "</tr>";
}
?>
</table>

```

```

</div>
<? } ?>
<? if(isset($report) && count($report) > 0){
    ?>
<div>
<h2><?php echo $title?> Stock Reports</h2>
<table>
<thead>
<tr>
<th>Kiosk Name</th>
<?php
if(in_array(3, $kioskFilters)){
echo "<th>". $otherFilters [0]. "</th>";
echo "<th>". $otherFilters [0]. "</th>";
}
if(in_array(4, $kioskFilters)){
echo "<th>". $otherFilters [1]. "</th>";
echo "<th>". $otherFilters [1]. "</th>";
}
?>
</tr>
</thead>
<tbody>
<?php
for($x=0; $x<count($report); $x++){
if($report[$x]['delivery_quantity_total'] > 0
    || $report[$x]['onhand_quantity_total'] >
    0){
echo "<tr>";
if($title == "Kiosk"){
echo "<th>". $report[$x]['kiosk_name']. "</th>";
else if($title == "Product"){
echo "<th>". $report[$x]['product_name']. "_".
    $report[$x]['product_variant']. "</th>";
else if($title == "Region"){
echo "<th>". $report[$x]['region_name']. "</th>";
}
if(in_array(3, $kioskFilters)){
echo "<th>". $report[$x]['
    delivery_quantity_total']. "</th>";
echo "<th>P_". $report[$x]['
    delivery_amount_total']. "</th>";
}
if(in_array(4, $kioskFilters)){
echo "<th>". $report[$x]['onhand_quantity_total'
    ]. "</th>";
echo "<th>P_". $report[$x]['onhand_amount_total'
    ]. "</th>";
}
echo "</tr>";
}
?>
</tbody>
</table>
</div>
<? } ?>
</body>
</html>

```


Product Registration/Update Product

Information View

```
<?php
if(isset($product)){
    $exist = true;
    echo form_open('editproduct');
}else{
    $exist = false;
    echo form_open('saveproduct');
}
?>
<div class = "prodreg_body">
<h2 class="prodreg_header">Product
    Registration Form</h2>
<form>
<table class="form-table">
<tr>
<td class="td_1_td_top">
<label class="control-label">Product Name:</
    label>
<input type="text" id="prod_name" name = "
    prod_name" class="form-control"
    placeholder="Product_Name" value = "<?php
    _if($exist){echo_.$product[0]['name'];}
    else{echo_."";}?>" required autofocus>
</td>
</tr>
<tr>
<td class="td_top">
<label class="control-label">Variant:</label>
<input type="text" id="variant" name = "
    prod_variant" class="form-control" value
    = "<?php_if($exist){echo_.$product[0]['
    variant'];} else{echo_."";}?>" placeholder=
    "Variant" required>
</td>
</tr>
<tr>
<td class="td_top">
<label class="control-label">Product Code:</
    label>
<input type="text" id="prod_code" name = "
    prod_code" class="form-control"
    placeholder="Product_Code" value = "<?php
    _if($exist){echo_.$product[0]['code'];}
    else_if(isset($max_code)){echo_.$max_code
    +1;} else{echo_."";}_?>" readonly required>
</td>
</tr>
<?php if(!$exist){ ?>
<tr>
<td class="td_top">
<input type="checkbox" id="gen_prod_code"
    onchange="activateBox()" checked="<?php_
    if(!$exist)_echo_'checked'?>">
<label class="control-label">Generate Product
    Code (if product code is unavailable)</
    label>
</td>
```

```
</tr>
<?php } ?>
<tr>
<td class="td_top">
<label class="control-label">Suggested Retail
    Price:</label>
<input type="amount" id="text" name = "
    prod_srp" class="form-control" value = "
    <?php_if($exist){echo_.$product[0]['srp
    '];} else{echo_."";}?>" placeholder="
    Suggested_Retail_Price" required>
</td>
</tr>
<tr>
<td class="button_td_2">
<button type="submit" class="btn btn-primary
    btn-lg"><span class="glyphicon glyphicon-
    ok"> Register</span></button>
<button type="button" class="btn btn-lg btn-
    clr"><a href="<?php_echo_base_url('/
    prodreg/');?>" class="clear"><span class=
    "glyphicon glyphicon-remove"> Clear</span
    ></a></button>
</td>
</tr>
</table>
</form>
</div>
<script>
function activateBox(){
    if(document.getElementById("gen_prod_code").
        checked == true){
        document.getElementById("prod_code").readOnly
            = true;
    }else{
        document.getElementById("prod_code").readOnly
            = false;
    }
}
</script>
```

Update Product Information Product

Selection View

```
<div class = "prodreg_body">
<h2 class="prodreg_header">Update Product
    Information</h2>
<div class="container">
<form>
<table id="table" class="table-table-striped_
    table-bordered" cellspacing="0">
<thead>
<tr>
<th>Code</th>
<th>Name</th>
<th>Variant</th>
<th>SRP</th>
<th></th>
</tr>
```

```

</thead>
<tbody>
<?php
for ($x = 0; $x < count($products); $x++){
echo "<tr>";
echo "<th>". $products[$x]['identifier']. "-".
    $products[$x]['code']. "</th>";
echo "<th>". $products[$x]['name']. "</th>";
echo "<th>". $products[$x]['variant']. "</th>";
echo "<th>". $products[$x]['srp']. "</th>";
echo "<th><button_type='button' _class='btn btn
    -lg btn-clr'><a_href='". base_url('/
    prodreg/'. $products[$x]['code']). "' _class
    ='clear'>Edit</a></button></th>";
echo "</tr>";
}
?>
</tbody>
<tfoot>
<tr>
<th>Code</th>
<th>Name</th>
<th>Variant</th>
<th>SRP</th>
<th></th>
</tr>
</tfoot>
</table>
</div>
</form>
<script src="<?php_echo_base_url('assets/
    jquery/jquery-2.1.4.min.js')?>"></script>
<script src="<?php_echo_base_url('assets/
    bootstrap/js/bootstrap.min.js')?>"></
    script>
<script src="<?php_echo_base_url('assets/
    datatables/js/jquery.dataTables.min.js')
    ?>"></script>
<script src="<?php_echo_base_url('assets/
    datatables/js/dataTables.bootstrap.js')?>
    "></script>
</div>
<script>
function activateBox(){
if(document.getElementById("gen_prod_code").
    value == "on"){
document.getElementById("prod_code"). disabled
    = false;
} else if(document.getElementById("
    gen_prod_code").value == "off"){
document.getElementById("prod_code"). disabled
    = true;
}
}
$(document).ready(function() {
$('#table').DataTable();
});
</script>
<script src="<?php_echo_base_url('assets/
    jquery/jquery-2.1.4.min.js')?>"></script>

```

```

<script src="<?php_echo_base_url('assets/
    bootstrap/js/bootstrap.min.js')?>"></
    script>
<script src="<?php_echo_base_url('assets/
    datatables/js/jquery.dataTables.min.js')
    ?>"></script>
<script src="<?php_echo_base_url('assets/
    datatables/js/dataTables.bootstrap.js')?>
    "></script>

```

Report View

```

<?php
if($title == "View_Kiosk_Reports")
echo form_open('kioskreports');
else if($title == "View_Product_Reports")
echo form_open('productreports');
else if($title == "View_Region_Reports")
echo form_open('regionreports');
?>
<? $salesFilters = array('Total_Sales', '
    Monthly_Average', 'Percent_Cont.', 'Daily
    _Average', 'Yearly_Average');
$otherFilters = array('Total_Deliveries', '
    Total_Stocks_On_Hand');
?>
<div class="prodreg_body">
<h2 class="prodreg_header">View Custom Reports
</h2>
<form>
<div class="panel_panel-primary_filters-panel"
    >
<div class="panel-heading">
<span class="glyphicon glyphicon-filter"></
    span><span class="panel-title"> Filters </
    span>
</div>
<div class="panel-body">
<form>
<table class="filters-table">
<tr>
<td colspan="4"><strong>Filters:</strong></td>
</tr>
<tr>
<?php if($title == "View_Kiosk_Reports") {?>
<td width="25%">
<input type="checkbox" id="selectKiosks"
    onclick="hideKiosks()"> Select Specific
    Kiosks</input>
</td>
<?php } else if($title == "View_Product_
    Reports") {?>
<td width="25%">
<input type="checkbox" id="selectProducts"
    onclick="hideProducts()"> Select Specific
    Products</input>
</td>
<?php } else if($title == "View_Region_
    Reports") {?>
<td width="25%">

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<input type="checkbox" id="selectRegion"
    onclick="hideRegion()"> Select Specific
    Region</input>
</td>
<?php } ?>
<td width="25%">
From:<input type="date" id="dateStart" name="
    startDate" value="<?_if(isset($startDate)
    ){echo_$startDate;}?>" class="form-
    control"></input>
</td>
<td width="25%">
To: <input type="date" id="dateEnd" name="
    endDate" value="<?_if(isset($endDate)){
    echo_$endDate;}?>" class="form-control"
    ></input>
</td>
</tr>
<tr>
<td colspan="8"><strong>Report Headers:</
    strong></td>
</tr>
<tr>
<td width="25%"><input type="checkbox" name="
    kioskFilters[]" value="1" <?if(isset(
    $kioskFilters) && !in_array(1,
    $kioskFilters)) echo " "; else echo "
    checked";?>>Total Sales</td>
<td width="25%"><input type="checkbox" name="
    kioskFilters[]" value="2" <?if(isset(
    $kioskFilters) && !in_array(2,
    $kioskFilters)) echo " "; else echo "
    checked";?>>Monthly Average</td>
<td width="25%"><input type="checkbox" name="
    kioskFilters[]" value="3" <?if(isset(
    $kioskFilters) && !in_array(3,
    $kioskFilters)) echo " "; else echo "
    checked";?>>Total Deliveries</td>
<td width="25%"><input type="checkbox" name="
    kioskFilters[]" value="4" <?if(isset(
    $kioskFilters) && !in_array(4,
    $kioskFilters)) echo " "; else echo "
    checked";?>>Total Stocks On Hand</td>
</tr>
<tr>
<td width="25%"><input type="checkbox" name="
    kioskFilters[]" value="5" <?if(isset(
    $kioskFilters) && !in_array(5,
    $kioskFilters)) echo " "; else echo "
    checked";?>>Average Sales Per Product (
    Viewable in Breakdown)</td>
<?php if($_SESSION['role'] != 3) {?> <td width=
    "25%"><input type="checkbox" name="
    kioskFilters[]" value="6" <?if(isset(
    $kioskFilters) && !in_array(6,
    $kioskFilters)) echo " "; else echo "
    checked";?>>Percent Sales Contribution</
    td><?php } ?>
<td width="25%"><input type="checkbox" name="
    kioskFilters[]" value="7" <?if(isset(
    $kioskFilters) && !in_array(7,
    $kioskFilters)) echo " "; else echo "
    checked";?>>Daily Average</td>
<td width="25%"><input type="checkbox" name="
    kioskFilters[]" value="8" <?if(isset(
    $kioskFilters) && !in_array(8,
    $kioskFilters)) echo " "; else echo "
    checked";?>>Yearly Average</td>
</tr>
</table>
</form>
<center><button id="button" type="submit" name
    = "action" value = "report" class="btn-
    btn-primary btn-lg"><span class="
    glyphicon glyphicon-ok"> Submit</span></
    button></center>
</div>
</div>
</form>
<div style="display:none;" id="kiosks-div">
<h4>Kiosks:</h4>
<table id="table1" class="table table-striped_
    table-bordered" cellpadding="0"
    cellspacing="0" border="0">
<thead>
<tr>
<th id="head1_kiosk">ID</th>
<th id="head2_kiosk">Name</th>
<th id="head3_kiosk"><input type='checkbox' id
    ='kiosk_control' onclick='checkKiosks()'
    <? if(!isset($kioskFilters) || (isset(
    $kiosk_filter) && count($kiosk_filter) >
    0) ) echo "checked" ?> ></input></th>
</tr>
</thead>
<tbody>
<?php
if(count($kiosks) > 0){
$key = array_search(1, array_column($kiosks, '
    kiosk_id'));
if($key == 0 && $kiosks[$key]['kiosk_id'] ==
    1){
$startIter = 1;
}else{
$startIter = 0;
}
for($x = $startIter; $x < count($kiosks); $x
    ++){
echo "<tr>";
echo "<th_id='head1_kiosk'>". $kiosks[$x]['
    kiosk_id' ]. "</th>";
echo "<th_id='head2_kiosk'>". $kiosks[$x]['
    kiosk_name' ]. "</th>";
if(isset($kiosk_filter)){
if(in_array($kiosks[$x]['kiosk_id'],
    $kiosk_filter))
echo "<th_id='head3_kiosk'><input_type='
    checkbox'_class='_kiosk_box'_name='
    kiosks[]'_value='". $kiosks[$x]['kiosk_id'
    ]. "'_checked></input></th>";

```

```

else
echo "<th_id='head3_kiosk'><input_type='
checkbox'_class='_kiosk_box'_name='
kiosks []'_value='". $kiosks [$x][ 'kiosk_id'
] ." '></input></th>";
} else if (isset ($kioskFilters) && count (
$kiosk_filter) <= 0){
echo "<th_id='head3_kiosk'><input_type='
checkbox'_class='_kiosk_box'_name='
kiosks []'_value='". $kiosks [$x][ 'kiosk_id'
] ." '></input></th>";
} else {
echo "<th_id='head3_kiosk'><input_type='
checkbox'_class='_kiosk_box'_name='
kiosks []'_value='". $kiosks [$x][ 'kiosk_id'
] ." '_checked></input></th>";
}
}
echo "</tr>";
}
}
?>
</tbody>
</table>
</div>
<div style="display:none;" id="products-div">
<h4>Products:</h4>
<table id="table2" class="table_table-striped_
table-bordered" cellspacing="0">
<thead>
<tr>
<th id="head1">Code</th>
<th id="head2">Name</th>
<th id="head3">Variant</th>
<th id="head4">SRP</th>
<th id="head5"><input type='checkbox' id='
product_control' onclick='checkProducts (
' <? if (!isset ($kioskFilters) || (isset (
$product_filter) && count ($product_filter
) > 0) ) echo "checked" ?>></input></th>
</tr>
</thead>
<tbody>
<?php
for ($x = 0; $x < count ($products); $x++){
echo "<tr>";
echo "<th_id='head1'>". $products [$x][ '
identifier' ]. '-'. $products [$x][ 'code' ]. "
</th>";
echo "<th_id='head2'>". $products [$x][ 'name' ]. "
</th>";
echo "<th_id='head3'>". $products [$x][ 'variant'
] . " </th>";
echo "<th_id='head4'>". $products [$x][ 'srp' ]. "
</th>";
if (isset ($product_filter)){
if (in_array ($products [$x][ 'code' ],
$product_filter))
echo "<th_id='head5'><input_type='checkbox'_
class='_product_box'_name='products []'_
value='". $products [$x][ 'code' ]. "'_checked
></input></th>";
else
echo "<th_id='head5'><input_type='checkbox'_
class='_product_box'_name='products []'_
value='". $products [$x][ 'code' ]. "'></input
></th>";
} else if (isset ($kioskFilters) && count (
></input></th>";
else
echo "<th_id='head5'><input_type='checkbox'_
class='_product_box'_name='products []'_
value='". $products [$x][ 'code' ]. "'></input
></th>";
} else if (isset ($kioskFilters) && count (
$product_filter) <= 0){
echo "<th_id='head5'><input_type='checkbox'_
class='_product_box'_name='products []'_
value='". $products [$x][ 'code' ]. "'_checked
></input></th>";
} else {
echo "<th_id='head5'><input_type='checkbox'_
class='_product_box'_name='products []'_
value='". $products [$x][ 'code' ]. "'_checked
></input></th>";
}
}
echo "</tr>";
}
?>
</tbody>
</table>
</div>
<div style="display:none;" id="region-div">
<h4>Region:</h4>
<table id="table7" class="table_table-striped_
table-bordered" cellspacing="0">
<thead>
<tr>
<th id="head1_kiosk">Region ID</th>
<th id="head2_kiosk">Region Name</th>
<th id="head3_kiosk"><input type='checkbox' id
='region_control' onclick='checkRegion () '
<? if (!isset ($kioskFilters) || (isset (
$region_filter) && count ($region_filter)
> 0) ) echo "checked" ?>></input></th>
</tr>
</thead>
<tbody>
<?php
for ($x = 0; $x < count ($region); $x++){
echo "<tr>";
echo "<th_id='head1_kiosk'>". $region [$x][ '
location_id' ]. " </th>";
echo "<th_id='head2_kiosk'>". $region [$x][ '
location_name' ]. " </th>";
if (isset ($region_filter)){
if (in_array ($region [$x][ 'location_id' ],
$region_filter))
echo "<th_id='head3_kiosk'><input_type='
checkbox'_class='_region_box'_name='
region []'_value='". $region [$x][ '
location_id' ]. "'_checked></input></th>";
else
echo "<th_id='head3_kiosk'><input_type='
checkbox'_class='_region_box'_name='
region []'_value='". $region [$x][ '
location_id' ]. "'></input></th>";
} else if (isset ($kioskFilters) && count (

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        $region_filter) <= 0){
echo "<th_id='head3-kiosk'><input_type='
checkbox'_class_='region-box'_name='
region[]'_value='". $region[$x]['
location_id']."'></input></th>";
} else{
echo "<th_id='head3-kiosk'><input_type='
checkbox'_class_='region-box'_name='
region[]'_value='". $region[$x]['
location_id']."'_checked></input></th>";
}
echo "</tr>";
}
?>
</tbody>
</table>
</div>
<div style="display:none" id="tables-kiosk-1">
<h4>Sales Report:</h4>
<b>*View Report breakdowns by clicking on the
name of the kiosk in the table.</b><br/>
<button type="button" id="table-kiosk" onclick
="switch_form()" class="btn btn-lg">
View in chart form</button>
<table id="table4" class="table table-striped
table-bordered" cellspacing="0">
<thead>
<tr>
<th>Kiosk Name</th>
<?php
if(in_array(1, $kioskFilters)){
echo "<th>". $salesFilters[0]. "</th>";
echo "<th>". $salesFilters[0]. "</th>";
}
if(in_array(2, $kioskFilters)){
echo "<th>". $salesFilters[1]. "</th>";
echo "<th>". $salesFilters[1]. "</th>";
}
if(in_array(6, $kioskFilters)){
echo "<th>". $salesFilters[2]. "</th>";
echo "<th>". $salesFilters[2]. "</th>";
}
if(in_array(7, $kioskFilters)){
echo "<th>". $salesFilters[3]. "</th>";
echo "<th>". $salesFilters[3]. "</th>";
}
if(in_array(8, $kioskFilters)){
echo "<th>". $salesFilters[4]. "</th>";
echo "<th>". $salesFilters[4]. "</th>";
}
?>
</tr>
</thead>
<tbody>
<?php
$product_full_name = array();
for($x=0; $x<count($report); $x++){
echo "<tr>";
if($title === "View_Product_Reports"){
array_push($product_full_name, $report[$x]['
product_name'],'_' . $report[$x]['
product_variant']);
}
if($title === "View_Kiosk_Reports")
echo "<th><a_href='". base_url('/
reportbreakdown/' . $report[$x]['kiosk_id'
] . '/' . $startDate . '/' . $endDate). "'_target
='". $x. "'>". $report[$x]['kiosk_name'] . "</
a></th>";
else if($title === "View_Product_Reports")
echo "<th>". $report[$x]['product_name'] . "_" .
$report[$x]['product_variant'] . "</th>";
else if($title === "View_Region_Reports")
echo "<th><a_href='". base_url('/
regionbreakdown/' . $report[$x]['region_id'
] . '/' . $startDate . '/' . $endDate). "'_target
='". $x. "'>". $report[$x]['region_name'] . "</
a></th>";
if(in_array(1, $kioskFilters)){
echo "<th>". $report[$x]['quantity_total'] . "</
th>";
echo "<th>". $report[$x]['amount_total'] . "</th>";
}
if(in_array(2, $kioskFilters)){
echo "<th>". $report[$x]['
monthly_average_quantity'] . "</th>";
echo "<th>". $report[$x]['
monthly_average_amount'] . "</th>";
}
if(in_array(6, $kioskFilters)){
echo "<th>". floor($report[$x]['
perc_quantity_total'] . "%</th>";
echo "<th>". floor($report[$x]['
perc_amount_total'] . "%</th>";
}
if(in_array(7, $kioskFilters)){
echo "<th>". $report[$x]['daily_quantity_total'
] . "</th>";
echo "<th>". round($report[$x]['
daily_amount_total'] . "</th>";
}
if(in_array(8, $kioskFilters)){
echo "<th>". $report[$x]['year_quantity_total'
] . "</th>";
echo "<th>". $report[$x]['year_amount_total'] . "</
th>";
}
echo "</tr>";
}
?>
</tbody>
<tfoot>
<tr>
<th>Total:</th>
<?php
$sum_totalsalesq = 0;
$sum_totalsalesa = 0;
$sum_monthaveq = 0;
$sum_monthavea = 0;

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$sum_dailyaveq = 0;
$sum_dailyavea = 0;
$sum_yearaveq = 0;
$sum_yearavea = 0;
for($x = 0; $x < count($report); $x++){
if(in_array(1, $kioskFilters)){
$sum_totalsalesq += $report[$x][ '
    quantity-total '];
$sum_totalsalesa += $report[$x][ 'amount-total '
    ];
}
if(in_array(2, $kioskFilters)){
$sum_monthaveq += $report[$x][ '
    monthly-average-quantity '];
$sum_monthavea += $report[$x][ '
    monthly-average-amount '];
}
if(in_array(7, $kioskFilters)){
$sum_dailyaveq += $report[$x][ '
    daily-quantity-total '];
$sum_dailyavea += round($report[$x][ '
    daily-amount-total ']);
}
if(in_array(8, $kioskFilters)){
$sum_yearaveq += $report[$x][ '
    year-quantity-total '];
$sum_yearavea += $report[$x][ '
    year-amount-total '];
}
}
if(in_array(1, $kioskFilters)){
echo "<th>". $sum_totalsalesq . "</th>";
echo "<th>". $sum_totalsalesa . "</th>";
}
if(in_array(2, $kioskFilters)){
echo "<th>". $sum_monthaveq . "</th>";
echo "<th>". $sum_monthavea . "</th>";
}
if(in_array(6, $kioskFilters)){
echo "<th>.100%</th>";
echo "<th>.100%</th>";
}
if(in_array(7, $kioskFilters)){
echo "<th>". $sum_dailyaveq . "</th>";
echo "<th>". $sum_dailyavea . "</th>";
}
if(in_array(8, $kioskFilters)){
echo "<th>". $sum_yearaveq . "</th>";
echo "<th>". $sum_yearavea . "</th>";
}
?>
</tr>
</tfoot>
</table>
</div>
<div style="display:<?php_if(isset(
    $kioskFilters)&&isset($report)&&count
    ($report)>0)_echo_" block";_else_echo_"
    none";_?>"; id="charts-kiosk-1">
<h4>Sales Report:</h4>

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<b>*View Report breakdowns by clicking on the
    name of the kiosk in the table.</b><br/>
<button type="button" id="chart-kiosk" onclick
    ="switch_form()" class = "btn_btn-lg">
    View in table form</button><br/>
<div id = "kiosk-quantity-div"></div>
<div id = "kiosk-sales-div"></div>
<?php if($_SESSION['role'] != 3){?><div id = "
    kiosk-percentage-div"></div><?php } ?>
</div>
<div style="display:<?php_if(isset(
    $kioskFilters)&&isset($report)&&count
    ($report)>0)_echo_" block";_else_echo_"
    none";_?>"; id="charts-kiosk-2">
<h4>Other Filters:</h4>
<b>*View Report breakdowns by clicking on the
    name of the kiosk in the table.</b><br/>
<button type="button" id="chart-kiosk" onclick
    ="switch_form2()" class = "btn_btn-lg">
    View in table form</button>
<div id="kiosk-del-quantity-div"></div>
<div id="kiosk-del-amount-div"></div>
</div>
<div style="display:none" id="tables-kiosk-2">
<h4>Other Filters:</h4>
<b>*View Report breakdowns by clicking on the
    name of the kiosk in the table.</b><br/>
<button type="button" id="table-kiosk" onclick
    ="switch_form2()" class = "btn_btn-lg">
    View in chart form</button>
<table id="table3" class="table_table-striped_
    table-bordered" cellspacing="0">
<thead>
<tr>
<th>Kiosk Name</th>
<?php
if(in_array(3, $kioskFilters)){
echo "<th>". $otherFilters[0]. "</th>";
echo "<th>". $otherFilters[0]. "</th>";
}
if(in_array(4, $kioskFilters)){
echo "<th>". $otherFilters[1]. "</th>";
echo "<th>". $otherFilters[1]. "</th>";
}
?>
</tr>
</thead>
<tbody>
<?php
for($x=0; $x<count($report); $x++){
echo "<tr>";
if($title == "View_Kiosk_Reports")
echo "<th><a href='". base_url('/'
    reportbreakdown/' . $report[$x][ 'kiosk_id '
    ]. '/' . $startDate. '/' . $endDate). "'_target
    ='". $x. "'>". $report[$x][ 'kiosk_name ']. "</
    a></th>";
else if($title == "View_Product_Reports")
echo "<th>". $report[$x][ 'product_name ']. "_".
    $report[$x][ 'product_variant ']. "</th>";

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else if ($title == "View_Region_Reports")
echo "<th><a href='".base_url('/
regionbreakdown/'. $report[$x]['region_id'
].'/'. $startDate.'/'. $endDate).' '_target
="' . $x. ">" . $report[$x]['region_name'] . "
</a></th>";
if(in_array(3, $kioskFilters)){
echo "<th>". $report[$x]['
delivery_quantity_total'] . "</th>";
echo "<th>". $report[$x]['delivery_amount_total
'] . "</th>";
}
if(in_array(4, $kioskFilters)){
echo "<th>". $report[$x]['onhand_quantity_total
'] . "</th>";
echo "<th>". $report[$x]['onhand_amount_total'
] . "</th>";
}
echo "</tr>";
}
?>
</tbody>
<tfoot>
<tr>
<th>Total:</th>
<?php
$sum_delivq = 0;
$sum_deliva = 0;
$sum_onhandq = 0;
$sum_onhanda = 0;
for($x = 0; $x < count($report); $x++){
if(in_array(3, $kioskFilters)){
$sum_delivq += $report[$x]['
delivery_quantity_total'];
$sum_deliva += $report[$x]['
delivery_amount_total'];
}
if(in_array(4, $kioskFilters)){
$sum_onhandq += $report[$x]['
onhand_quantity_total'];
$sum_onhanda += $report[$x]['
onhand_amount_total'];
}
}
if(in_array(3, $kioskFilters)){
echo "<th>". $sum_delivq . "</th>";
echo "<th>". $sum_deliva . "</th>";
}
if(in_array(4, $kioskFilters)){
echo "<th>". $sum_onhandq . "</th>";
echo "<th>". $sum_onhanda . "</th>";
}
?>
</tr>
</tfoot>
</table>
</div>
<div id="monthly-progress"></div>
<div id="year-progress"></div>
<div style="display: <?php-if(isset(
$KioskFilters)&&!(isset($report)&&
count($report)->0))&echo" block";else
&echo" none";?>">
<center><button id="button" type="submit" name
="action" value="pdf" class="btn btn-
primary btn-lg">Get PDF</button>&nbsp;<
button id="export" type="button" class="
btn btn-primary btn-lg">Export all </
button></center>
</div>
</div>
</div>
<script src="<?php-echo-base_url('assets/
datatables/js/jquery.dataTables.min.js'
)?>"></script>
<script src="<?php-echo-base_url('assets/
datatables/js/dataTables.bootstrap.js'?)?>
"></script>
<script src="<?php-echo-base_url('assets/
highcharts/js/highcharts.js'?)?>"></script
>
<script src="<?php-echo-base_url('assets/
highcharts/js/modules/exporting.js'?)?>"
></script>
<script src="<?php-echo-base_url('assets/
highcharts/js/modules/offline-exporting.
js'?)?>"></script>
<script>
function hideKiosks(){
if(document.getElementById('kiosks-div').style
.display == "none"){
document.getElementById('kiosks-div').style.
display = "block";
}else{
document.getElementById('kiosks-div').style.
display = "none";
}
}
function hideProducts(){
if(document.getElementById('products-div').
style.display == "none"){
document.getElementById('products-div').style.
display = "block";
}else{
document.getElementById('products-div').style.
display = "none";
}
}
function hideRegion(){
if(document.getElementById('region-div').style
.display == "none"){
document.getElementById('region-div').style.
display = "block";
}else{
document.getElementById('region-div').style.
display = "none";
}
}
$(document).ready(function() {
$('#table1').DataTable({

```

```

"sScrollX": "100%",
"scrollY": "200px",
"paging": false
} );
$('#table2').DataTable( {
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
} );
$('#table7').DataTable( {
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
} );
$('#table3').DataTable();
$('#table4').DataTable();
});
function checkKiosks(){
$("#kiosk_box").click();
}
function checkProducts(){
$("#product_box").click();
}
function checkRegion(){
$("#region_box").click();
}
function switch_form(){
if(document.getElementById('charts-kiosk-1').
style.display === "none"){
document.getElementById('charts-kiosk-1').
style.display = "block";
document.getElementById('tables-kiosk-1').
style.display = "none";
}else{
document.getElementById('charts-kiosk-1').
style.display = "none";
document.getElementById('tables-kiosk-1').
style.display = "block";
}
}
function switch_form2(){
if(document.getElementById('charts-kiosk-2').
style.display === "none"){
document.getElementById('charts-kiosk-2').
style.display = "block";
document.getElementById('tables-kiosk-2').
style.display = "none";
}else{
document.getElementById('charts-kiosk-2').
style.display = "none";
document.getElementById('tables-kiosk-2').
style.display = "block";
}
}
</script>
<script>
var chart1 = new Highcharts.Chart({
chart: {
type: 'column',
renderTo: 'kiosk-quantity-div'
},
title: {
text: 'Kiosk_Report'
},
subtitle: {
text: 'Sales_and_Averages'
},
xAxis: {
categories: <?php if($title === "View_Kiosk_
Reports") echo json_encode(array_column(
$report, 'kiosk_name')); else if($title
=== "View_Product_Reports") echo
json_encode($product_full_name); else if(
$title === "View_Region_Reports") echo
json_encode(array_column($report, '
region_name')));?>
},
yAxis: {
min: 0,
title: {
text: 'Quantity'
}
},
tooltip: {
headerFormat: '<span_style="font-size:10px">{
point.key}</span><table>',
pointFormat: '<tr><td_style="color:{series.
color};padding:0">{series.name}:_</td>' +
'<td_style="padding:0"><b>{point.y:.1f}</b></
td></tr>',
footerFormat: '</table>',
shared: true,
useHTML: true
},
plotOptions: {
column: {
pointPadding: 0.2,
borderWidth: 0
}
},
series: [
<? if(count(array_column($report, '
quantity_total')) > 0){ ?>
{
name: 'Total_Sales',
data: <?php echo json_encode( array_column(
$report, 'quantity_total') ,
JSON_NUMERIC_CHECK ); ?>
},
<? } ?>
<? if(count(array_column($report, '
monthly_average_quantity')) > 0){ ?>
{
name: 'Monthly_Average',
data: <?php echo json_encode( array_column(
$report, 'monthly_average_quantity') ,
JSON_NUMERIC_CHECK); ?>
},
<? } ?>
<? if(count(array_column($report, '

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```

        daily_quantity_total')) > 0){ ?>
    {
    name: 'Daily_Average',
    data: <?php echo json_encode(array_column(
        $report, 'daily_quantity_total') ,
        JSON_NUMERIC_CHECK); ?>
    },
    <? } ?>
    <? if(count(array_column($report, '
        year_quantity_total')) > 0){ ?>
    {
    name: 'Yearly_Average',
    data: <?php echo json_encode(array_column(
        $report, 'year_quantity_total') ,
        JSON_NUMERIC_CHECK); ?>
    }
    <? } ?>
    ]
    });
    var chart2 = new Highcharts.Chart({
    chart: {
    type: 'column',
    renderTo: 'kiosk-sales-div'
    },
    title: {
    text: 'Kiosk_Report'
    },
    subtitle: {
    text: 'Sales_and_Averages'
    },
    xAxis: {
    categories: <?php if($title === "View_Kiosk_
        Reports") echo json_encode(array_column(
        $report, 'kiosk_name')); else if($title
        === "View_Product_Reports") echo
        json_encode($product_full_name); else if(
        $title === "View_Region_Reports") echo
        json_encode(array_column($report, '
        region_name')));?>
    },
    yAxis: {
    min: 0,
    title: {
    text: 'Amount'
    }
    },
    tooltip: {
    headerFormat: '<span_style="font-size:10px">{
        point.key}</span><table>',
    pointFormat: '<tr><td_style="color:{series.
        color};padding:0">{series.name}:_</td>' +
        '<td_style="padding:0"><b>{point.y:.1f}</b></
        td></tr>',
    footerFormat: '</table>',
    shared: true,
    useHTML: true
    },
    plotOptions: {
    column: {
    pointPadding: 0.2,

```

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borderWidth: 0
    }
    },
    series: [
    <? if(count(array_column($report, '
        amount_total')) > 0){ ?>
    {
    name: 'Total_Sales',
    data: <?php echo json_encode( array_column(
        $report, 'amount_total') ,
        JSON_NUMERIC_CHECK ); ?>
    },
    <? } ?>
    <? if(count(array_column($report, '
        monthly_average_amount')) > 0){ ?>
    {
    name: 'Monthly_Average',
    data: <?php echo json_encode(array_column(
        $report, 'monthly_average_amount') ,
        JSON_NUMERIC_CHECK); ?>
    },
    <? } ?>
    <? if(count(array_column($report, '
        daily_amount_total')) > 0){ ?>
    {
    name: 'Daily_Average',
    data: <?php echo json_encode(array_column(
        $report, 'daily_amount_total') ,
        JSON_NUMERIC_CHECK); ?>
    },
    <? } ?>
    <? if(count(array_column($report, '
        year_amount_total')) > 0){ ?>
    {
    name: 'Yearly_Average',
    data: <?php echo json_encode(array_column(
        $report, 'year_amount_total') ,
        JSON_NUMERIC_CHECK); ?>
    }
    <? } ?>
    ]
    });
    <?php if(count(array_column($report, '
        perc_quantity_total')) > 0 && $_SESSION['
        role'] != 3 ){ ?>
    var chart3 = new Highcharts.Chart({
    chart: {
    plotBackgroundColor: null ,
    plotBorderWidth: null ,
    plotShadow: false ,
    type: 'pie',
    renderTo: 'kiosk-percentage-div'
    },
    title: {
    text: 'Kiosk_Sales_Percentage_Distribution'
    },
    tooltip: {
    pointFormat: '{series.name}:_<b>{point.
        percentage:.1f}%</b>'
    },

```

```

plotOptions: {
  pie: {
    allowPointSelect: true,
    cursor: 'pointer',
    dataLabels: {
      enabled: false
    },
    showInLegend: true
  }
},
series: [{
  name: 'Kiosks',
  colorByPoint: true,
  data : [
    <?
for($x = 0; $x < count($report) ; $x++){
  if($report[$x]['perc-quantity-total']>0){
    if($title === "View_Kiosk_Reports"){
      echo "[", $report[$x]['kiosk_name'], ", ",
        $report[$x]['perc-quantity-total'], ", ";
    }else if($title === "View_Product_Reports"){
      echo "[", $report[$x]['identifiier'], "-",
        $report[$x]['code'], ", ", $report[$x]['
        perc-quantity-total'], ", ";
    }if($title === "View_Region_Reports"){
      echo "[", $report[$x]['region_name'], ", ",
        $report[$x]['perc-quantity-total'], ", ";
    }
  }
}
?>
];
});
<?php } ?>
var chart4 = new Highcharts.Chart({
  chart: {
    type: 'column',
    renderTo: 'kiosk-del-quantity-div'
  },
  title: {
    text: 'Kiosk_Report'
  },
  subtitle: {
    text: 'Deliveries_and_Stock-On-Hand'
  },
  xAxis: {
    categories: <?php if($title === "View_Kiosk_
      Reports") echo json_encode(array_column(
      $report, 'kiosk_name')); else if($title
      === "View_Product_Reports") echo
      json_encode($product_full_name); else if(
      $title === "View_Region_Reports") echo
      json_encode(array_column($report, '
      region_name'));?>
  },
  yAxis: {
    min: 0,
    title: {
      text: 'Quantity'
    }
  },
  tooltip: {
    headerFormat: '<span_style="font-size:10px">{
      point.key}</span><table>',
    pointFormat: '<tr><td_style="color:{ series .
      color };padding:0">{ series.name}:_</td>' +
      '<td_style="padding:0"><b>{point.y:1f}</b></
      td></tr>',
    footerFormat: '</table>',
    shared: true,
    useHTML: true
  },
  plotOptions: {
    column: {
      pointPadding: 0.2,
      borderWidth: 0
    }
  },
  series: [
    <? if(count(array_column($report, '
      delivery-quantity-total')) > 0){ ?>
    {
      name: 'Delivery',
      data: <?php echo json_encode( array_column(
        $report, 'delivery-quantity-total' ) ,
        JSON_NUMERIC_CHECK ); ?>
    },
    <? } ?>
    <? if(count(array_column($report, '
      onhand-quantity-total')) > 0){ ?>
    {
      name: 'Stocks-On-Hand',
      data: <?php echo json_encode(array_column(
        $report, 'onhand-quantity-total' ) ,
        JSON_NUMERIC_CHECK); ?>
    }
    <? } ?>
  ]
});
var chart5 = new Highcharts.Chart({
  chart: {
    type: 'column',
    renderTo: 'kiosk-del-amount-div'
  },
  title: {
    text: 'Kiosk_Report'
  },
  subtitle: {
    text: 'Deliveries_and_Stock-On-Hand'
  },
  xAxis: {
    categories: <?php if($title === "View_Kiosk_
      Reports") echo json_encode(array_column(
      $report, 'kiosk_name')); else if($title
      === "View_Product_Reports") echo
      json_encode($product_full_name); else if(
      $title === "View_Region_Reports") echo
      json_encode(array_column($report, '
      region_name'));?>
  },
  yAxis: {
    min: 0,
    title: {
      text: 'Quantity'
    }
  },
  tooltip: {
    headerFormat: '<span_style="font-size:10px">{
      point.key}</span><table>',
    pointFormat: '<tr><td_style="color:{ series .
      color };padding:0">{ series.name}:_</td>' +
      '<td_style="padding:0"><b>{point.y:1f}</b></
      td></tr>',
    footerFormat: '</table>',
    shared: true,
    useHTML: true
  },
  plotOptions: {
    column: {
      pointPadding: 0.2,
      borderWidth: 0
    }
  },
  series: [
    <? if(count(array_column($report, '
      delivery-quantity-total')) > 0){ ?>
    {
      name: 'Delivery',
      data: <?php echo json_encode( array_column(
        $report, 'delivery-quantity-total' ) ,
        JSON_NUMERIC_CHECK ); ?>
    },
    <? } ?>
    <? if(count(array_column($report, '
      onhand-quantity-total')) > 0){ ?>
    {
      name: 'Stocks-On-Hand',
      data: <?php echo json_encode(array_column(
        $report, 'onhand-quantity-total' ) ,
        JSON_NUMERIC_CHECK); ?>
    }
    <? } ?>
  ]
});

```

```

    },
    yAxis: {
      min: 0,
      title: {
        text: 'Amount'
      }
    },
    tooltip: {
      headerFormat: '<span_style="font-size:10px">{
        point.key}</span><table>',
      pointFormat: '<tr><td_style="color:{ series.
        color };padding:0">{ series.name}:-</td>' +
        '<td_style="padding:0"><b>{point.y:.1f}</b></
        td></tr>',
      footerFormat: '</table>',
      shared: true,
      useHTML: true
    },
    plotOptions: {
      column: {
        pointPadding: 0.2,
        borderWidth: 0
      }
    },
    series: [
      <? if(count(array_column($report, '
        delivery_amount_total')) > 0){ ?>
      {
        name: 'Delivery',
        data: <?php echo json_encode( array_column(
          $report, 'delivery_amount_total' ) ,
          JSON_NUMERIC_CHECK ); ?>
      },
      <? } ?>
      <? if(count(array_column($report, '
        onhand_amount_total')) > 0){ ?>
      {
        name: 'Stocks-On-Hand',
        data: <?php echo json_encode(array_column(
          $report, 'onhand_amount_total' ) ,
          JSON_NUMERIC_CHECK); ?>
      }
      <? } ?>
    ]
  });
  $(function () {
    $('#monthly-progress').highcharts({
      title: {
        text: 'Monthly_Progress',
        x: -20 //center
      },
      subtitle: {
        text: "Year-<?php_date('Y')_?>",
        x: -20
      },
      xAxis: {
        categories: ['Jan', 'Feb', 'Mar', 'Apr', 'May',
          'Jun',
          'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec']
      },
      yAxis: {
        title: {
          text: 'Amount_(P)'
        },
        plotLines: [{
          value: 0,
          width: 1,
          color: '#808080'
        }]
      },
      tooltip: {
        valuePrefix: 'P_'
      },
      legend: {
        layout: 'vertical',
        align: 'right',
        verticalAlign: 'middle',
        borderWidth: 0
      },
      series: [
        <?php for($x = 0; $x < count($progress); $x++)
        )?>
        {
          <?php
          if($title === "View_Kiosk_Reports"){
            $key = array_search($progress[$x]['kiosk_id'],
              array_column($report, 'kiosk_id'));
          }else if($title === "View_Product_Reports"){
            $key = array_search($progress[$x]['code'],
              array_column($report, 'code'));
          }else if($title === "View_Region_Reports"){
            $key = array_search($progress[$x]['region_id']
              , array_column($report, 'region_id'));
          }
          ?>
          name: "<?php
          if($title === 'View_Kiosk_Reports'){
            echo $report[$key]['kiosk_name'];
          }else if($title === 'View_Product_Reports'){
            echo $report[$key]['identifier'].'-'. $report[
              $key]['code'];
          }else if($title === 'View_Region_Reports'){
            echo $report[$key]['region_name'];
          }
          ?>",
          data: <?php echo json_encode( array_column(
            $progress[$x]['value_array'], 'sales'),
            JSON_NUMERIC_CHECK );?>
        },
        <?php } ?>
      ]
    });
    $(function () {
      $('#year-progress').highcharts({
        title: {
          text: 'Yearly_Progression',
          x: -20 //center
        },
        subtitle: {

```

```

text: "Year_<?php_date('Y')_?>",
x: -20
},
xAxis: {
categories: <?php echo json_encode(
    array_column($year_progress[0][ '
        value_array'], 'year'),
    JSON_NUMERIC_CHECK );?>
},
yAxis: {
title: {
text: 'Amount_(P)'
},
plotLines: [{
value: 0,
width: 1,
color: '#808080'
}]
},
tooltip: {
valuePrefix: 'P_'
},
legend: {
layout: 'vertical',
align: 'right',
verticalAlign: 'middle',
borderWidth: 0
},
series: [
<?php for($x = 0; $x < count($year_progress);
    $x++){?>
{
<?php
if($title === "View_Kiosk_Reports"){
$key = array_search($year_progress[$x][ '
    kiosk_id'], array_column($report, '
    kiosk_id'));
}else if($title === "View_Product_Reports"){
$key = array_search($year_progress[$x][ 'code'
    ], array_column($report, 'code'));
}else if($title === "View_Region_Reports"){
$key = array_search($year_progress[$x][ '
    region_id'], array_column($report, '
    region_id'));
}
?>
name: "<?php
if($title === 'View_Kiosk_Reports'){
echo_ $report[$key][ 'kiosk_name'];
}elseif($title === 'View_Product_Reports'){
echo_ $report[$key][ 'identifier'].'-'. $report[
    $key][ 'code'];
}elseif($title === 'View_Region_Reports'){
echo_ $report[$key][ 'region_name'];
}
?>",
data: <?php echo json_encode( array_column(
    $year_progress[$x][ 'value_array'], 'sales'
), JSON_NUMERIC_CHECK );?>
},

```

```

<?php } ?>
]
});
});
Highcharts.getSVG = function(charts) {
var svgArr = [],
top = 0,
width = 0;
$.each(charts, function(i, chart) {
var svg = chart.getSVG();
svg = svg.replace('<svg', '<g_transform="
    translate(0,' + top + ')"_');
svg = svg.replace('</svg>', '</g>');
top += chart.chartHeight;
width = Math.max(width, chart.chartWidth);
svgArr.push(svg);
});
return '<svg_height="' + top + '"_width="' +
    width + '"_version="1.1"_xmlns="http://
    www.w3.org/2000/svg">' + svgArr.join('')
    + '</svg>';
};
Highcharts.exportCharts = function(charts,
    options) {
options = Highcharts.merge(Highcharts.
    getOptions().exporting, options);
Highcharts.post(options.url, {
filename: options.filename || 'chart',
type: options.type,
width: options.width,
svg: Highcharts.getSVG(charts)
});
};
$('#export').click(function() {
Highcharts.exportCharts([chart1, chart2,
    chart3, chart4, chart5]);
});
</script>
<div class = "body">
<div id="monthly-progress"></div>
<div id="year-progress"></div>
</div>
<script src="<?php_echo_base_url('assets/
    highcharts/js/highcharts.js')?>"></script
    >
<script src="<?php_echo_base_url('assets/
    highcharts/js/modules/exporting.js')?>"
    ></script>
<script src="<?php_echo_base_url('assets/
    highcharts/js/modules/offline-exporting.
    js')?>"></script>
<script>
$(function() {
$('#monthly-progress').highcharts({
title: {
text: 'Monthly_Progress',
x: -20 //center

```

```

    },
    subtitle: {
      text: "Year_<?php echo _$year;_?>",
      x: -20
    },
    xAxis: {
      categories: ['Jan', 'Feb', 'Mar', 'Apr', 'May',
        , 'Jun',
        'Jul', 'Aug', 'Sep', 'Oct', 'Nov', 'Dec']
    },
    yAxis: {
      title: {
        text: 'Amount_(P)'
      },
      plotLines: [{
        value: 0,
        width: 1,
        color: '#808080'
      }]
    },
    tooltip: {
      valuePrefix: 'P_'
    },
    legend: {
      layout: 'vertical',
      align: 'right',
      verticalAlign: 'middle',
      borderWidth: 0
    },
    series: [{
      name: 'Sales',
      data: <?php echo json_encode( array_column(
        $month_progress, 'sales'),
        JSON_NUMERIC_CHECK );?>
    }]
  });
});
$(function () {
  $('#year-progress').highcharts({
    title: {
      text: 'Yearly_Progression',
      x: -20 //center
    },
    xAxis: {
      categories: <?php echo json_encode(
        array_column($year_progress, 'year'),
        JSON_NUMERIC_CHECK); ?>
    },
    yAxis: {
      title: {
        text: 'Amount_(P)'
      },
      plotLines: [{
        value: 0,
        width: 1,
        color: '#808080'
      }]
    },
    tooltip: {
      valuePrefix: 'P_'

```

```

    },
    legend: {
      layout: 'vertical',
      align: 'right',
      verticalAlign: 'middle',
      borderWidth: 0
    },
    series: [{
      name: 'Sales',
      data: <?php echo json_encode( array_column(
        $year_progress, 'sales'),
        JSON_NUMERIC_CHECK );?>
    }]
  });
});
</script>

```

Set Threshold View

```

<div class = "prodreg-body">
  <?php
  echo form_open('savethreshold');
  ?>
  <h2 class="prodreg-header"><? echo $name; ?></
  h2>
  <div class="container">
    <form>
      <input type = "hidden" name = "id" value = "<?
      _echo_$id;?>">
      <table class="form-delivery">
        <tr>
          <td class="td-delivery">
            <table id="table1" class="table-table-striped_
            table-bordered" cellspacing="0">
              <thead>
                <tr>
                  <th>Code</th>
                  <th>Product Name</th>
                  <th>Variant</th>
                  <th>Quantity Remaining</th>
                  <th>Average Quantity <?php if($id == 1){echo "
                  Delivered";} else{echo "Sold";} ?> Per
                  Month</th>
                  <th>Set Threshold</th>
                </tr>
              </thead>
              <tbody>
                <?php
                for($x = 0; $x < count($quantity); $x++){
                  $key = array_search($quantity[$x]['code'],
                    array_column($average, 'code'));
                  if($average[$key]['code'] != $quantity[$x][
                    'code']){
                    $save_num = 0;
                  }else{
                    $save_num = round($average[$key]['average']);
                  }
                  echo "<tr>";
                  echo "<th>". $quantity[$x]['identifier']. '-'.
                    $quantity[$x]['code']. "</th>";

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```

echo "<th>". $quantity[$x][ 'name' ]. "</th>";
echo "<th>". $quantity[$x][ 'variant' ]. "</th>";
echo "<th>". $quantity[$x][ 'quantity' ]. "</th>";
echo "<th>". $save_num. "</th>";
echo "<th_class='quantity-input'><input_id='
    quantity_touchspin '_type='text '_value='".
    $quantity[$x][ 'threshold' ]. "'_name='".
    $quantity[$x][ 'code' ]. "'></th>";
echo "</tr>";
}
?>
</tbody>
</table>
</td>
</tr>
<tr>
<td class="button_td_2">
<button type="submit" class="btn btn-primary
    btn-lg"><span class="glyphicon glyphicon-
    ok"> Update</span></button>
</td>
</tr>
</table>
</form>
</div>
</div>
<script src="<?php_echo_base_url('assets/
    datatables/js/jquery.dataTables.min.js')
    ?>"></script>
<script src="<?php_echo_base_url('assets/
    datatables/js/dataTables.bootstrap.js')?>
    "></script>
<script src="<?php_echo_base_url('assets/
    touchspin/jquery.bootstrap-touchspin.min.
    js')?>"></script>
<script>
$(document).ready(function() {
$( '#table1' ).DataTable({
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
});
});
</script>
<script>
$("input[id='quantity_touchspin']").TouchSpin
({
min: 0,
max: 1000,
initval: '',
replacement: '',
forcestepdivisibility: 'round',
verticalbuttons: false,
verticalupclass: 'glyphicon glyphicon-chevron-
up',
verticaldownclass: 'glyphicon glyphicon-
chevron-down',
boostat: 5,
booster: true,
maxboostedstep: 10,

```

```

prefix_extraclass: '',
postfix_extraclass: '',
step: 1,
stepinterval: 100,
stepintervaldelay: 500,
mousewheel: true,
buttondown_class: 'btn btn-default',
buttonup_class: 'btn btn-default',
buttondown_txt: '-',
buttonup_txt: '+'
});
</script>

```

Signup View

```

<!DOCTYPE html>
<html lang="en">
<head>
<title>Sign Up</title>
<link href="<?php_echo_base_url('/assets/css/
    bootstrap.min.css');?>" rel="stylesheet">
<link href="<?php_echo_base_url('/assets/css/
    ie10-viewport-bug-workaround.css');?>"
    rel="stylesheet">
<link href="<?php_echo_base_url('/assets/css/
    signup.css');?>" rel="stylesheet">
<link href="<?php_echo_base_url('/assets/css/
    lagis.css');?>" rel="stylesheet">
<script src="<?php_echo_base_url('/assets/js/
    ie-emulation-modes-warning.js');?>"></
    script>
</head>
<body class="login-body">
<?php echo form_open('saveuser'); ?>
<div class="container">
<div class="header-container"><a href="<?php_
    echo_base_url('/')?>" class="clear"><h2
    class="header">LA Global Product Trends
    Inc. </br>User Registration Form</h2></a
    ></div>
<div class="left">
<span class="img_1">
<a href="<?php_echo_base_url('/')?>" class="
    clear"></img></a>
</span>
<div class="mission">
<h3>Vision</h3>
<p>Lorem ipsum dolor sit amet, consectetur
    adipiscing elit. Pellentesque pulvinar in
    magna non aliquam. Mauris semper quam
    eget sapien pretium, vitae placerat odio
    aliquet. Aliquam maximus, dolor nec
    dictum suscipit, diam nisl commodo est,
    id tincidunt metus augue ut tortor.
    Mauris interdum sapien eget dui eleifend,
    a sollicitudin nisl luctus. In bibendum
    est felis, sed iaculis mauris bibendum
    faucibus. Lorem ipsum dolor sit amet,

```

```

        consectetur adipiscing elit. Ut a
        scelerisque eros, at pellentesque nulla
    .</p>
</div>
<div class = "vision">
<h3>Mission</h3>
<p>Lorem ipsum dolor sit amet, consectetur
    adipiscing elit. Pellentesque pulvinar in
    magna non aliquam. Mauris semper quam
    eget sapien pretium, vitae placerat odio
    aliquet. Aliquam maximus, dolor nec
    dictum suscipit, diam nisl commodo est,
    id tincidunt metus augue ut tortor.
    Mauris interdum sapien eget dui eleifend,
    a sollicitudin nisl luctus. In bibendum
    est felis, sed iaculis mauris bibendum
    faucibus. Lorem ipsum dolor sit amet,
    consectetur adipiscing elit. Ut a
    scelerisque eros, at pellentesque nulla
    .</p>
</div>
</div>
<div class="right">
<form>
<table>
<tr>
<td class="td_1 td_top">
<label class="control-label">First Name:</
    label>
<input type="text" id="fname" name="fname"
    class="form-control" placeholder="First _
    Name" required autofocus>
</td>
<td class="td_top">
<label class="control-label">Last Name:</label
    >
<input type="text" id="lname" name="lname"
    class="form-control" placeholder="Last _
    Name" required>
</td>
</tr>
<tr>
<td colspan="2" class="td_1 td_top">
<label class="control-label">Sex:</label>
<span class="radio_1"><input type="radio" name
    ="sex" class="sex" value="m" checked>Male
    </input></span>
<span class="radio_1"><input type="radio" name
    ="sex" class="sex" value="f">Female</
    input></span>
</td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">E-Mail Address:</
    label>
<input type="email" id="email" name="email"
    class="form-control" placeholder="Email _
    address" required>
</td>
</tr>
</table>
</div>
</tr>
<td colspan="2" class="td_top">
<label class="control-label">Username:</label>
<input type="text" id="username" name="
    username" class="form-control"
    placeholder="Username" required>
</td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">Password:</label>
<input type="password" id="password" name="
    password" class="form-control"
    placeholder="Password" onchange="
    validatePass();checkPass();enableSubmit()
    ;" required>
<span id="passwordPass" class="confirmMessage"
    ></span>
</td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">Confirm Password
    :</label>
<input type="password" id="confirm" class="
    form-control" placeholder="Confirm _
    Password" onchange="checkPass();
    enableSubmit();" required>
<span id="confirmMessage" class="
    confirmMessage"></span>
</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">User Role:</label
    >
<select name="urole" class="form-control">
<option value="Administrator" selected>
    Administrator</option>
<option value="CEO">CEO</option>
<option value="Sales_Supervisor">Sales
    Supervisor</option>
<option value="Sales_Personnel">Sales
    Personnel</option>
<option value="Warehouse_Personnel">Warehouse
    Personnel</option>
</select>
</td>
</tr>
<tr>
<td class="button_td_2">
<button type="submit" id="submit" class="btn _
    btn-primary btn-lg" disabled><span class
    ="glyphicon glyphicon-ok"> Register</span
    ></button>

```

```

</td>
<td class="button_button2">
<button type="button" class="btn btn-lg btn-
clr"><a href="<?php_echo_base_url('/
signup/');?>" class="clear"><span class="
glyphicon glyphicon-remove"> Clear</span
></a></button>
</td>
</tr>
</table>
</form>
</div>
</div>
<script src="<?php_echo_base_url('assets/js/
ie10-viewport-bug-workaround.js');?>"></
script>
<script>
var validated2;
var validated
function checkPass(){
var pass1 = document.getElementById('password'
);
var pass2 = document.getElementById('confirm')
;
var message = document.getElementById('
confirmMessage');
var goodColor = "#66cc66";
var badColor = "#ff6666";
if(pass1.value == pass2.value){
pass2.style.backgroundColor = goodColor;
message.style.color = goodColor;
message.innerHTML = "Passwords_Match!";
validated2 = true;
}else{
pass2.style.backgroundColor = badColor;
message.style.color = badColor;
message.innerHTML = "Passwords_Do_Not_Match!";
validated2 = false;
}
}
function validatePass() {
var pass1 = document.getElementById('password'
);
var pass2 = document.getElementById('confirm')
;
var message = document.getElementById('
passwordPass');
var goodColor = "#66cc66";
var badColor = "#ff6666";
validated = true;
if(pass1.value.length < 8)
validated = false;
if(!/\d/.test(pass1.value))
validated = false;
if(!/[a-z]/.test(pass1.value))
validated = false;
if(!/[A-Z]/.test(pass1.value))
validated = false;
if(!/[^\0-9a-zA-Z]/.test(pass1.value))
validated = false;

```

```

(validated ? pass1.style.backgroundColor =
goodColor:pass1.style.backgroundColor =
badColor);
(validated ? message.style.color = goodColor:
message.style.color = badColor);
message.innerHTML = (validated ? "Password_
validated!" : "Password_should_at_least_
be_8_characters_long_and_must_contain_1_
numeric,_uppercase,_and_lowercase_
character" );
};
function enableSubmit(){
(( validated && validated2) ? document.
getElementById("submit").disabled = false
: document.getElementById("submit").
disabled = true);
}
</script>
</body>
</html>

```

Signup Success View

```

<html lang="en">
<head>
<title>Sign Up</title>
<link href="<?php_echo_base_url('/assets/css/
bootstrap.min.css');?>" rel="stylesheet">
<link href="<?php_echo_base_url('/assets/css/
ie10-viewport-bug-workaround.css');?>"
rel="stylesheet">
<link href="<?php_echo_base_url('/assets/css/
signup.css');?>" rel="stylesheet">
<link href="<?php_echo_base_url('/assets/css/
lagis.css');?>" rel="stylesheet">
<script src="<?php_echo_base_url('/assets/js/
ie-emulation-modes-warning.js');?>"></
script>
</head>
<body class="login-body">
<?php echo form_open('saveuser'); ?>
<div class="container">
<div class="header-container"><a href="<?php_
echo_base_url('/');?>" class="clear"><h2
class="header">LA Global Product Trends
Inc. </br>User Registration Form</h2></a
></div>
<div class="left">
<span class="img_1">
<a href="<?php_echo_base_url('/');?>" class="
clear"></img></a>
</span>
<div class="mission">
<h3>Vision</h3>
<p>Lorem ipsum dolor sit amet, consectetur
adipiscing elit. Pellentesque pulvinar in
magna non aliquam. Mauris semper quam
 eget sapien pretium, vitae placerat odio

```



```

    aliquet. Aliquam maximus, dolor nec
    dictum suscipit, diam nisl commodo est,
    id tincidunt metus augue ut tortor.
    Mauris interdum sapien eget dui eleifend,
    a sollicitudin nisl luctus. In bibendum
    est felis, sed iaculis mauris bibendum
    faucibus. Lorem ipsum dolor sit amet,
    consectetur adipiscing elit. Ut a
    scelerisque eros, at pellentesque nulla
    .</p>
</div>
<div class = "vision">
<h3>Mission</h3>
<p>Lorem ipsum dolor sit amet, consectetur
    adipiscing elit. Pellentesque pulvinar in
    magna non aliquam. Mauris semper quam
    eget sapien pretium, vitae placerat odio
    aliquet. Aliquam maximus, dolor nec
    dictum suscipit, diam nisl commodo est,
    id tincidunt metus augue ut tortor.
    Mauris interdum sapien eget dui eleifend,
    a sollicitudin nisl luctus. In bibendum
    est felis, sed iaculis mauris bibendum
    faucibus. Lorem ipsum dolor sit amet,
    consectetur adipiscing elit. Ut a
    scelerisque eros, at pellentesque nulla
    .</p>
</div>
</div>
<div class="right">
<h2><?php echo $process ?> Complete!</h2>
</div>
</div>
<script src="<?php echo base_url('assets/js/
    ie10-viewport-bug-workaround.js');?>"></
    script>
<script>
var validated2;
var validated
function checkPass(){
var pass1 = document.getElementById('password'
    );
var pass2 = document.getElementById('confirm')
    ;
var message = document.getElementById('
    confirmMessage');
var goodColor = "#66cc66";
var badColor = "#ff6666";
if(pass1.value == pass2.value){
pass2.style.backgroundColor = goodColor;
message.style.color = goodColor;
message.innerHTML = "Passwords_Match!";
validated2 = true;
}else{
pass2.style.backgroundColor = badColor;
message.style.color = badColor;
message.innerHTML = "Passwords_Do_Not_Match!";
validated2 = false;
}
}
}

```

```

function validatePass() {
var pass1 = document.getElementById('password'
    );
var pass2 = document.getElementById('confirm')
    ;
var message = document.getElementById('
    passwordPass');
var goodColor = "#66cc66";
var badColor = "#ff6666";
validated = true;
if(pass1.value.length < 8)
validated = false;
if(!/\d/.test(pass1.value))
validated = false;
if(!/[a-z]/.test(pass1.value))
validated = false;
if(!/[A-Z]/.test(pass1.value))
validated = false;
if(!/[0-9a-zA-Z]/.test(pass1.value))
validated = false;
(validated ? pass1.style.backgroundColor =
    goodColor:pass1.style.backgroundColor =
    badColor);
(validated ? message.style.color = goodColor:
    message.style.color = badColor);
message.innerHTML = (validated ? "Password_
    validated!" : "Password_should_at_least_
    be_8_characters_long_and_must_contain_1_
    numeric,_uppercase,_and_lowercase_
    character" );
};
function enableSubmit(){
( (validated && validated2) ? document.
    getElementById("submit").disabled = false
    : document.getElementById("submit").
    disabled = true);
}
</script>
</body>
</html>

```

Success View

```

<div class = "body">
<h2 class="prodreg-header"><?php echo $process
    ?> Complete!</h2>
</br>
</br></br>
<?
if($title == "Deliver_Products"){
echo form_open('retrievepdfreport');
echo "<center><button_id='button'_type='submit'
    '_name_='action'_value_='deliver'_class
    ='btn_btn-primary_btn-lg'>Get_PDF</button
    ></center>";
}else if($title == "Pullout_Stocks"){
echo form_open('retrievepdfreport');
echo "<center><button_id='button'_type='submit'
    '_name_='action'_value_='pullout'_class
    ='btn_btn-primary_btn-lg'>Get_PDF</button

```



```

    },
    series: [
<?php for($x = 0; $x < count($observations);
    $x++){?>
    {
<?php
if($title === "View_Kiosk_Analytics" || $title
    === "View_Total_Sales_Analytics" ){
$key = array_search($observations[$x]['
    kiosk_id'], array_column($prediction, '
    kiosk_id'));
}else if($title === "View_Product_Analytics"){
$key = array_search($observations[$x]['code'],
    array_column($observations, 'code'));
}
?>
name: "<?php
if($title === 'View_Total_Sales_Analytics'){
echo 'Total_Sales';
}
?>",
data: <?php echo json_encode( array_merge(
    array_column($observations[$x]['
    value_array'], 'sales'), $prediction[
    $key]['value_array'] ),
    JSON_NUMERIC_CHECK );?>
    },
<?php } ?>
<?php if(isset($prediction2)){?>
{
name: "Product-based_Prediction",
data:<?php echo json_encode( array_merge(
    array_column($observations[0]['
    value_array'], 'sales'), $prediction2 ),
    JSON_NUMERIC_CHECK );?>
}
<?php } ?>
}
});
});
<?php if(isset($product_prediction)){?>
$(function () {
$('#product-prediction').highcharts({
title: {
text: 'Product_Sales_Per_Month',
x: -20 //center
},
subtitle: {
text: "Year-<?php echo date('Y');_?>",
x: -20
},
xAxis: {
categories: <?php echo json_encode($x_axis);?>
},
yAxis: {
title: {
text: 'Quantity'
},
plotLines: [{
value: 0,
width: 1,
color: '#808080'
}]
},
legend: {
layout: 'vertical',
align: 'right',
verticalAlign: 'middle',
borderWidth: 0
},
series: [
<?php for($x = 0; $x < count($product_sales);
    $x++){?>
{
<?php
if($title === "View_Kiosk_Analytics"){
$key = array_search($product_sales[$x]['code'
    ], array_column($product_prediction, '
    code'));
}else if($title === "View_Product_Analytics"){
$key = array_search($observations[$x]['code'],
    array_column($observations, 'code'));
}if($title === "View_Total_Sales_Analytics"){
$key = array_search($product_sales[$x]['code'
    ], array_column($product_prediction, '
    code'));
}
?>
name: "<?php
if($title === 'View_Kiosk_Analytics'){
echo $product_sales[$key]['name'];
}else_if($title === 'View_Product_Reports'){
echo $observations[$key]['product_variant'];
}else_if($title === 'View_Total_Sales_
    Analytics'){
echo $product_sales[$key]['identifier'].'-'.
    $product_sales[$key]['code'];
}
?>",
data: <?php echo json_encode( array_merge(
    array_column($product_sales[$x]['
    value_array'], 'sales'),
    $product_prediction[$key]['value_array']
    ), JSON_NUMERIC_CHECK );?>
    },
<?php } ?>
}
});
});
<?php } ?>
</script>
<?php } ?>

```

Trace Transaction View

```

<div class = "prodreg_body">
<h2 class="prodreg-header">Trace Transaction</
    h2>
<div class="container">
<form>

```

```

<table id="table" class="table table-striped
table-bordered" cellspacing="0">
<thead>
<tr>
<th>Transaction Type</th>
<th>Recipient of Transaction</th>
<th>Product Code</th>
<th>Product Name</th>
<th>Quantity Involved</th>
<th>Date and Time of Transaction</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<?php
for($x = 0; $x < count($transactions); $x++){
echo "<tr>";
echo "<th>".ucfirst($transactions[$x][
transaction_name'])."</th>";
echo "<th>". $transactions[$x]['kiosk_name']. "
</th>";
echo "<th>". $transactions[$x]['identifier']. '-
'. $transactions[$x]['code']. "</th>";
echo "<th>". $transactions[$x]['product_name'].
'.'. $transactions[$x]['product_variant'].
"</th>";
echo "<th>". $transactions[$x]['quantity']. "</
th>";
echo "<th>". $transactions[$x]['timestamp']. "</
th>";
$key = array_search($transactions[$x][
transaction'], array_column($comment,
transaction_id'));
if($transactions[$x]['transaction'] ==
$comment[$key]['transaction_id']){
echo "<th>". $comment[$key]['
transaction_comment']. "</th>";
} else {
echo "<th></th>";
}
echo "</tr>";
}
?>
</tbody>
<tfoot>
<tr>
<th>Transaction Type</th>
<th>Recipient of Transaction</th>
<th>Product Code</th>
<th>Product Name</th>
<th>Quantity Involved</th>
<th>Date and Time of Transaction</th>
<th>Comment</th>
</tr>
</tfoot>
</table>
</div>
</form>
</div>
<script src="<?php_echo_base_url('assets/

```

```

jquery/jquery-2.1.4.min.js')?>"></script>
<script src="<?php_echo_base_url('assets/
bootstrap/js/bootstrap.min.js')?>"></
script>
<script src="<?php_echo_base_url('assets/
datatables/js/jquery.dataTables.min.js')
?>"></script>
<script src="<?php_echo_base_url('assets/
datatables/js/dataTables.bootstrap.js')?>
"></script>
<script>
$(document).ready(function() {
$('#table').DataTable();
});
</script>

```

Delivery, Pullout, Update Transaction View

```

<div class = "prodreg_body">
<?
if(strcmp($title, 'Deliver_Products') == 0){
echo form_open('updatestocks');
} else if(strcmp($title, 'Pullout_Stocks') ==
0){
echo form_open('updatepullout');
} else {
echo form_open('updatetransactions');
}
?>
<h2 class="prodreg-header"><? echo $name; ?></
h2>
<div class="container">
<form>
<?php
if(!empty($notif_id)){
echo "<input type='_hidden' name='_notif_id'
_value='_'. $notif_id.''_>";
}
?>
<input type = "hidden" name = "id" value = "<?
_echo_$id;?>">
<table class="form-delivery">
<tr>
<td class="td_delivery">
<table id="table1" class="table table-striped
table-bordered" cellspacing="0">
<thead>
<tr>
<?
for($x = 0; $x < count($headers); $x++){
echo "<th>". $headers[$x]. "</th>" ;
}
if(isset($warehouse_quantities) && $title ==
'Deliver_Products'){
echo "<th>_Requested/Deliver_Quantity_</th>";
}
?>
</tr>

```



```

</div>
</td>
</tr>
<?php } ?>
<tr>
<td class="button_td_2">
<button type="submit" class="btn btn-primary btn-lg"><span class="glyphicon glyphicon-ok"> Submit</span></button>
</td>
</tr>
</table>
</form>
</div>
</div>
<script src="<?php_echo_base_url('assets/datatables/js/jquery.dataTables.min.js')?>"></script>
<script src="<?php_echo_base_url('assets/datatables/js/dataTables.bootstrap.js')?>"></script>
<script src="<?php_echo_base_url('assets/touchspin/jquery.bootstrap-touchspin.min.js')?>"></script>
<script>
$(document).ready(function() {
$('#table1').DataTable({
"sScrollX": "100%",
"scrollY": "200px",
"paging": false
});
});
</script>
<script>
<?
if($title === "Deliver_Products"){
for($x = 0; $x < count($warehouse_quantities); $x++){
?>
$("input[name='<?echo_$warehouse_quantities[$x][ 'code ']?>']").TouchSpin({
min: 0,
max: <? echo $warehouse_quantities[$x][ 'quantity ']?>,
initval: '',
replacementval: '',
forcestepdivisibility: 'round',
verticalbuttons: false,
verticalupclass: 'glyphicon glyphicon-chevron-up',
verticaldownclass: 'glyphicon glyphicon-chevron-down',
boostat: 5,
booster: true,
maxboostedstep: 10,
prefix_extraclass: '',
postfix_extraclass: '',
step: 1,
stepinterval: 100,
stepintervaldelay: 500,

```

```

mousewheel: true,
buttondown_class: 'btn btn-default',
buttonup_class: 'btn btn-default',
buttondown_txt: '-',
buttonup_txt: '+'
});
<? }}else if($title === "Update_Sales" || $title === "Pullout_Stocks" ){
for($x = 0; $x < count($quantity); $x++){
?>
$("input[name='<?echo_$quantity[$x][ 'code ']?>']").TouchSpin({
min: 0,
max: <? echo $quantity[$x][ 'quantity ']?>,
initval: '',
replacementval: '',
forcestepdivisibility: 'round',
verticalbuttons: false,
verticalupclass: 'glyphicon glyphicon-chevron-up',
verticaldownclass: 'glyphicon glyphicon-chevron-down',
boostat: 5,
booster: true,
maxboostedstep: 10,
prefix_extraclass: '',
postfix_extraclass: '',
step: 1,
stepinterval: 100,
stepintervaldelay: 500,
mousewheel: true,
buttondown_class: 'btn btn-default',
buttonup_class: 'btn btn-default',
buttondown_txt: '-',
buttonup_txt: '+'
});
<? }} ?>
</script>

```

Update Warehouse Stocks View

```

<div class = "prodreg_body">
<?
echo form_open('updatestocks');
?>
<h2 class="prodreg_header"><? echo $name; ?></h2>
<div class="container">
<form>
<input type = "hidden" name = "id" value = "<? _echo_$id;?>">
<table class="form-delivery">
<tr>
<td class="td_delivery">
<table id="table1" class="table table-striped table-bordered" cellspacing="0">
<thead>
<tr>
<?
for($x = 0; $x < count($headers); $x++){

```



```

class="form-control" placeholder="First_
Name" required autofocus <?if(isset(
$details[0]['f_name'])) echo "value='_' .
$details[0]['f_name']." '"; ?> >
</td>
<td class="td_top">
<label class="control-label">Last Name:</label
>
<input type="text" id="lname" name="lname"
class="form-control" placeholder="Last_
Name" required <?if(isset($details[0]['
lname'])) echo "value='_' . $details[0]['
lname']." '"; ?> >
</td>
</tr>
<tr>
<td colspan="2" class="td_1-td_top">
<label class="control-label">Sex:</label>
<span class="radio_1"><input type="radio" name
="sex" class="sex" value="m" <?if(isset(
$details[0]['sex']) && $details[0]['sex']
=="m") echo "checked"; ?>>Male</input
></span>
<span class="radio_1"><input type="radio" name
="sex" class="sex" value="f" <?if(isset(
$details[0]['sex']) && $details[0]['sex']
=="f") echo "checked"; ?>>Female</
input></span>
</td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">E-Mail Address:</
label>
<input type="email" id="email" name="email"
class="form-control" placeholder="Email_
address" <?if(isset($details[0]['email'])
) echo "value='_' . $details[0]['email']." '
"; ?> required>
</td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">Username:</label>
<input type="text" id="username" name="
username" class="form-control"
placeholder="Username" <?if(isset(
$details[0]['username'])) echo "value='_'
. $details[0]['username']." '"; ?> required
readonly>
</td>
</tr>
<tr>
<td>&nbsp;</td>
</tr>
<tr>
<td><b>Change Password?</b></td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">Old Password:</
label>
<input type="password" id="old_password" name=
"old_password" class="form-control"
placeholder="Password" required>
</td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">New Password:</
label>
<input type="password" id="password" name="
password" class="form-control"
placeholder="Password" onchange="
checkPass()" required>
</td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">Confirm Password
:</label>
<input type="password" id="confirm" class="
form-control" placeholder="Confirm_
Password" onchange="checkPass()" required
>
<span id="confirmMessage" class="
confirmMessage"></span>
</span>
</td>
</tr>
<tr>
<td>&nbsp;</td>
</tr>
<tr>
<td colspan="2" class="td_top">
<label class="control-label">User Role:</label
>
<select name="urole" class="form-control"
disabled>
<option value="Administrator" <?if(isset(
$details[0]['role']) && $details[0]['role
'] == "Administrator") echo "selected";
?>>Administrator</option>
<option value="CEO" <?if(isset($details[0]['
role']) && $details[0]['role'] == "CEO")
echo "selected"; ?>>CEO</option>
<option value="Sales_Supervisor" <?if(isset(
$details[0]['role']) && $details[0]['role
'] == "Sales_Supervisor") echo "selected
"; ?>>Sales Supervisor</option>
<option value="Sales_Personnel" <?if(isset(
$details[0]['role']) && $details[0]['role
'] == "Sales_Personnel") echo "selected"
; ?>>Sales Personnel</option>
</select>
</td>
</tr>
<tr>
<td class="button_td_2">
<button type="submit" id="submit" class="btn_

```



```

        btn-primary btn-lg" disabled><span class=
        "glyphicon glyphicon-ok"> Register </span
    </button>
</td>
</tr>
</table>
</center>
</div>
</form>
</div>
</div>
</div>
<script src="<?php_echo_base_url('assets/js/
ie10-viewport-bug-workaround.js');?>"></
script>
<script>
function checkPass(){
var pass1 = document.getElementById('password'
);
var pass2 = document.getElementById('confirm')
;
var message = document.getElementById('
confirmMessage');
var goodColor = "#66cc66";
var badColor = "#ff6666";
if(pass1.value == pass2.value){
pass2.style.backgroundColor = goodColor;
message.style.color = goodColor;
message.innerHTML = "Passwords_Match!";
document.getElementById("submit").disabled =
false;
}else{
pass2.style.backgroundColor = badColor;
message.style.color = badColor;
message.innerHTML = "Passwords_Do_Not_Match!";
document.getElementById("submit").disabled =
true;
}
}
}
</script>

```

Routes

```

<?php
defined('BASEPATH') OR exit('No direct script
access allowed');
$route['default_controller'] = 'login/getLogin'
; //get log in page
$route['404_override'] = '';
$route['translate_uri_dashes'] = FALSE;
//routes

//login
$route['loginSession'] = 'login/loginSession';
//login user, set session data
$route['logout'] = 'login/Logout'; //logout
$route['approveusers/(:num)'] = 'login/
approveNotif/$1'; //approve users
requiring confirmation
$route['approveusers'] = 'login/approve'; //
approve users requiring confirmation
$route['approvesuccess'] = 'login/
approveSuccess'; // approve success
$route['deactivateusers'] = 'login/deactivate'
; //approve users requiring confirmation
$route['deactivatesuccess'] = 'login/
deactivateSuccess'; //approve users
requiring confirmation
$route['profile'] = 'login/viewProfile'; //
view user profile and update details
$route['updateprofile'] = 'login/updateProfile'
; //profile uodate success
$route['dashboard'] = 'login/Dashboard'; //get
dashboard
$route['signup'] = 'login/getSignup'; // get
signup page
$route['saveuser'] = 'login/signUpSuccess'; //
signup success
//kiosk
$route['kioskreg'] = 'kiosk/getKioskReg'; //
get kiosk registration page
$route['savekiosk'] = 'kiosk/saveKiosk'; //
save new kiosk
$route['kioskreg/(:num)'] = 'kiosk/
editKioskAssignment/$1'; //edit
specific kiosk details
$route['updatekiosk'] = 'kiosk/getUpdateKiosk'
; // get all kiosk for updating details
$route['editkiosk'] = 'kiosk/editUpdatedKiosk'
; //update kiosk success
//deliver
$route['deliverproducts'] = 'kiosk/
deliverProducts'; //get all kiosk for
delivery
$route['delivery/(:num)'] = 'kiosk/delivery/$1'
; //get specific kiosk for delivery
$route['delivery/(:num)/(:num)'] = 'kiosk/
delivery_notif/$1/$2'; // get specific
kiosk for delivery from notification
$route['updatestocks'] = 'kiosk/saveStocks';
// create delivery notification
//sale
$route['misctransaction'] = 'kiosk/
getMiscTransaction';
$route['savemisctransaction'] = 'kiosk/
saveMiscTransaction';
$route['transaction'] = 'kiosk/
transactionRecord'; // sell products
$route['updatetransactions'] = 'kiosk/
updateTransactions'; //sell products
success
$route['recenttransactions'] = 'kiosk/
recenttransactions';
//kiosk location
$route['kioskloc'] = 'kiosk/getKioskLocation';
// create kiosk location
$route['editkioskloc'] = 'kiosk/
editKioskLocation'; // get kiosk
location pages for editing
$route['updatekioskloc/(:num)'] = 'kiosk/

```

```

        updateKioskLocation/$1'; // edit specific
        kiosk location
$route['updatelocsuccess'] = 'kiosk/
    updateLocSuccess'; // update success
$route['savelocation'] = 'kiosk/saveLocation';
    // save created location
$route['setthreshold'] = 'kiosk/
    setProductThreshold'; // edit specific
    kiosk location
$route['savethreshold'] = 'kiosk/
    saveProductThreshold'; // edit specific
    kiosk location
//pullout
$route['pullout/(:num)'] = 'kiosk/pullout/$1';
    // pullout products from specific kiosk
$route['pullout'] = 'kiosk/retrievePullout/';
    // retrieve all kiosk pages for pullout
$route['updatepullout'] = 'kiosk/updatePullout
    '; // create pullout notification
//product
$route['prodreg'] = 'product/getProdReg'; //
    product registration page
$route['prodreg/(:num)'] = 'product/
    editProductDetail/$1';//edit specific
    product page
$route['updateprod'] = 'product/getUpdateProd'
    ; // get all product pages for editing
$route['saveproduct'] = 'product/saveProduct';
    // save created product
$route['editproduct'] = 'product/
    saveUpdatedProduct'; // save updates on
    product
//warehouse
$route['warehouse'] = 'warehouse/
    updateWarehouseStocks'; // retrieve
    warehouse page for delivering stocks
$route['updatewarehouse'] = 'warehouse/
    saveWarehouseStocks'; // create
    notification to be confirmed by CEO
//report
$route['kioskreports'] = 'report/
    getKioskReports'; // get report page and
    report itself
$route['productreports'] = 'report/
    getProductReports'; // get report page
    and report itself
$route['regionreports'] = 'report/
    getRegionReports'; // get report page and
    report itself
$route['retrievepdfreport'] = 'report/
    getPdfTransactionReport'; // get pdf
    report for transactions.
$route['retrievepdfreport/(:num)'] = 'report/
    getPdf/$1';
$route['reportbreakdown/(:num)/(:any)/(:any)']
    = 'report/getBreakdown/$1/$2/$3'; // get
    breakdown for kiosk
$route['regionbreakdown/(:num)/(:any)/(:any)']
    = 'report/getRegionBreakdown/$1/$2/$3';
    // get breakdown for region/location
$route['salesreport'] = 'report/
    getSalesProgressReport';
//notifications
$route['notificationdetails/(:num)'] = '
    notification/getDetails/$1'; // view
    notification
$route['notificationaccept'] = 'notification/
    acceptNotification'; // accept
    notification to update stocks for kiosks/
    warehouse
$route['notifications'] = 'notification/
    getNotifications';
//analytics
$route['productanalytics'] = 'analytics/
    productAnalytics';
$route['kioskanalytics'] = 'analytics/
    viewAnalytics';
$route['totalanalytics'] = 'analytics/
    viewTotalAnalytics';
//misc
//crawl
$route['crawl'] = 'crawler/crawl'; //crawl
    products
$route['book1'] = 'crawler/book1'; //products
    tables
//test transaction
$route['test'] = 'report/test'; // testing lol
//end routes

```

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