

INVENTORY MANAGEMENT SYSTEM

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project/internship titled **Inventory Management System**, submitted by **Hura Jannat** , ID No: 171-15-9517 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 31 May 2021.

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I hereby declare that this project has been done by us under the supervision of Mst **Eshita Khatun, Lecture, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.



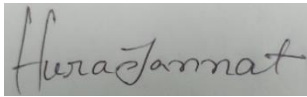
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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

The primary motivation behind this undertaking is to save important time. Time is vital in our life. There are numerous shops and Companies in Bangladesh. In any case, they don't accepting and sell their item at the correct time. Along these lines, the two of them endure numerous misfortunes. Each retailer and friends needs to save their important time. A Company needs clients to know their items rapidly. A client consistently needs everything without any problem. Stock administration framework is a web base framework through which Companies and furthermore businesspeople tackle their issues. Stock Management System is a framework which is useful for the organizations that work tool shops, where the storekeeper keeps the records of deals and buy. Fumbled stock methods frustrated clients, a lot of money tied up in distribution centers and more slow deals. This undertaking takes out the desk work, human flaws, manual postponement and accelerate measure. Stock Management System will can follow deals and accessible stock, tell a storekeeper when it's an ideal opportunity to reorder and the amount to buy.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Go against to large relationship with many real place, on much moderate company, a stock can go sincere to an investment somewhat area from the sufferance field, if an occupations are a deduction extensively, a stock would be successfully thing as opposed in vulgar materials or division. The merchandise are then trail from a stock domain or proceed to build filed their are build in done materials. The done stock may be gotten to goods territories where their are held foregoing lading ,and they should be sent honest to customers.Store a main employ an mixture of details to a products as they trip by an interaction, counting bit digits, chronic digits, price of goods, quantity of goods and on times then they trip by the cycle. Almost 50 percent to cash are styled to a goods on the attemp. Materials Management is related to organizing, getting, taking care of and giving the appropriate material of right quality, perfect sum at right spot in helpful time to co-ordinate and schedule the creation development in an integrative course for a mechanical undertaking. Stock Management is fundamentally the method by which an affiliation is furnished with the items and endeavors that it needs to achieve its objectives of buying, amassing and advancement of materials. Stock organization systems are vital to how associations track and control inventories. Having the option to measure stock in an advantageous and definite manner is fundamental for having constant business exercises since stock is consistently one of the greatest

current assets on an association's bookkeeping report. Goods are the outline an unit or element for items and materials, or those product and materials themselves, held available in stock by a business. Accounting stock is seen as a benefit. Merchandise operations are needed in various territories centre a workplace or centre different regions to a stockpile substructure on thing a standard the masterminded detection in age against the personal disorder crash in mislaid a spot in substance and goods

1.2 Motivation

This inspiration of a paper is by improve plan in renaming the essential of retailers for circulation. Ideally later on prerequisite businessperson information I have can make an essential obligation in the vital thought progress measure that may be made.

1.3 Objective

- Customer fulfillment.
- Easy correspondence.
- diminish travel and holding up time.
- Responding rapidly and crisis time.
- Real time data

1.4 Expected Outcome

The data set framework ought to have the option to create covers the accompanying perspectives:

- The status of any gear gatherings, just as an all out outline
- A memorable acquisition outline
- Coverage of stock against model hardware records
- A long haul substitution plan
- Make satisfaction to user better.
- Coverage of inventory against model equipment lists
- The 'new' estimation of the hardwarock
- Easily management system can requirement.
- Required support financial plans

Chapter 1: Introduction

This is a major part I had vetting about the presentation, creativity, goals or anticipated result of our task.

Chapter 2: Background

This is foundations of task have talked about. I retained featured the other connected activities or build examination into online framework and an extent of the issue or difficulties of an undertaking.

Chapter 3: Requirement Specification

The major parts are reliable in necessities same career measure displaying, a prerequisite assortment or investigation, an utilization design of an undertaking more adding depiction, a coherent information design or the plan prerequisites.

Chapter 4: Design Specification

How I had planned an undertaking, forechart configuration, backside plan, communication plan and interface an execution prerequisites had examined of the section.

Chapter 5: Implementation and Testing

The section hold the execution the data set, forechart plans, associations, trial execution to a trial aftereffects to a venture.

Chapter 6: Conclusion and Future Scope

The framework was principally intended to lessen the manual work of refreshing and following and furthermore make it simpler for the user. It additionally gives adaptable and incredible reports with respect to client subtleties and stock details. The stock administration framework was effective. There will be just a single information base for the at least two stores. Messaging administration to illuminate clients

Chapter 2

Background

2.1 Introduction

This creating frameworks are petition a lovely plan on a framework and composing the framework adequately captivating by build a client, provider also profitable inclusion with no outward power. The idea below there got through an idea of community correspondence. I trust there creating frameworks would be mainstream to improving utilized to client, provider also profitable commitment.

2.2 Relative Work

Inventory management systems are the shrewd groundbreaking thought. Yet, I have not discovered any business related to this sort of venture. Thus, I attempted by activities to the thought. This nothing creating framework to find into chrome. Have many online business webpage frameworks to this country however this not any such creating framework.

2.3 Comparative Studies

I have utilized in my Inventory the executives framework ongoing firebase and simple client connection plan. I have attempted to add various classes yet no such creating framework has been made previously. I had set an extent to permitting heaps in photographs and items. I had additionally attach the owner permit photograph and permit digits verification office on my creating framework. clients can likewise find a proposal to an items or think about owner.

2.4 Scope of the problem

To area of merchandise administration substructure do offset numerous necessities comprise value the stock, progress to change goods or playing with next store names. This progress to a store regarding completed to all times get the assumption by fiscal examination by calculating announce.

2.5 Challenges

Difficulties are a typical component in a task. I need to go through certain difficulties. One of them is association of data set. What sort of information will be produced that was troublesome. Another way is that clients comprehend that a Company's item is acceptable. At last, I conquer the difficulties. Data set is synchronized and the UI is amicable.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Requirements Collection and Analysis : By buildup the framework their to be utilized programming and equipment. That had utilized heaps to rationales, much dialects, to programming to complete my web application . For this I required:

Coding languages

- PHP
- Javascript
- CSS
- Software IDE
 - Xampp(Localhost)
 - Notepad++
 - Any Browser(Chrome,Opera mini,Firefox,Internet explorer)

3.2 Analysis

In this bustling world time is an important element. What's more, for bringing in cash or different purposes retailers go move starting with one spot then onto the next spot and burn through their significant time and to compose Company's item compute for the present circumstance the activities are holdered. Additionally, an organization needs in travel a provider much of the time for their new item which is a misuse of their important time. Thus, finding this dangerous circumstance I have intended to make a simple method to compute businesspeople, providers and Companies subtleties to stay up to that bustling glove shorn holding a activities.

3.3 Design Requirements

I have remembered a few components while building up the framework. I have attempted to plan this framework such that clients, providers and Company can without much of a stretch handle this framework and get the ideal or expected result utilizing this framework. For this I attempted to make this creating framework viable, productive and easy to use.

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Forepart styled activities for the optical part of the web system and with aid of this a owner do Interconnect with a web system. This is for a owner a primary objects are a forepart style. In the insight

of a modders this implies a dialects set up to the interface of the application.

By have the decent encounter for the client the application should be easy to use a justifiable. Thus, attempted by build that application easy to use with the goal that the client can undoubtedly comprehend and utilize it.

Here php has been utilized to make the login page. Stock administration framework has numerous pages. In this way, were a more scheming fragment for various cause. Snapshots are specified beneath in picture 4.1.

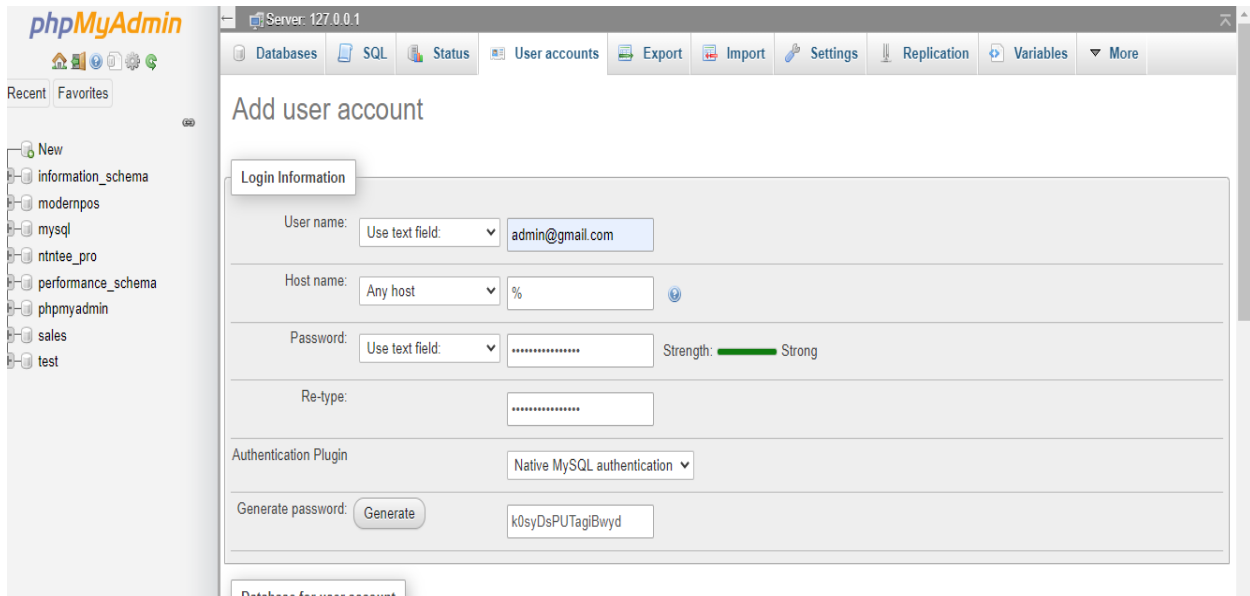


Figure 4.1 Inventory management system Logging page php in SQL

Point of sale mysql page and set in data to get result for page below in picture:

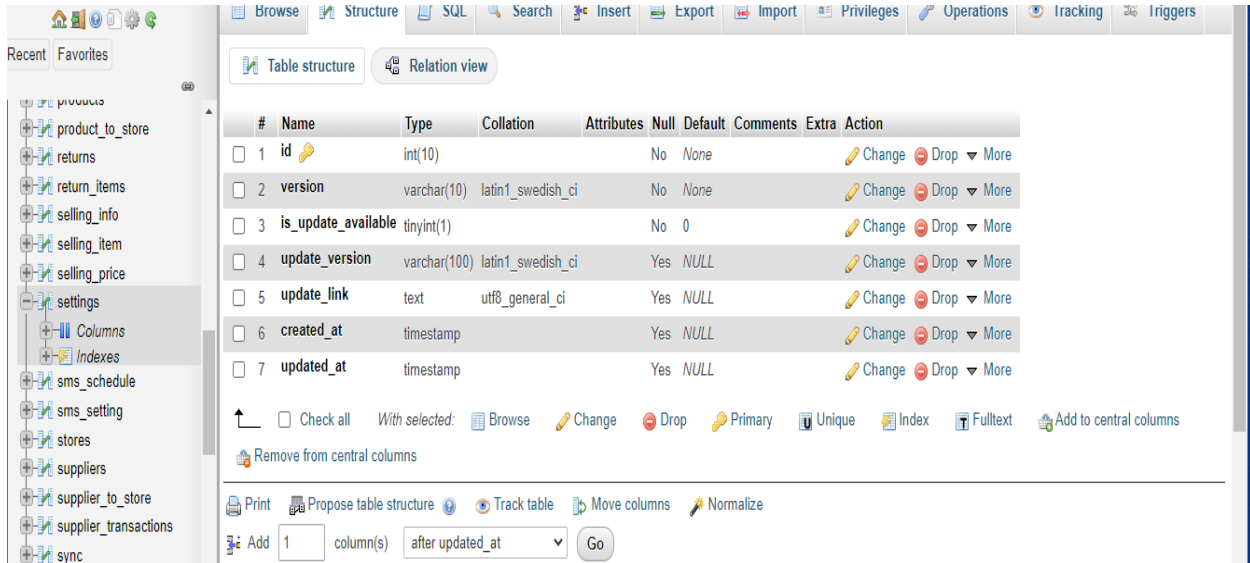


Figure 4.2 Point of sale page PHP code in SQL

Add customer page is beneath in picture:

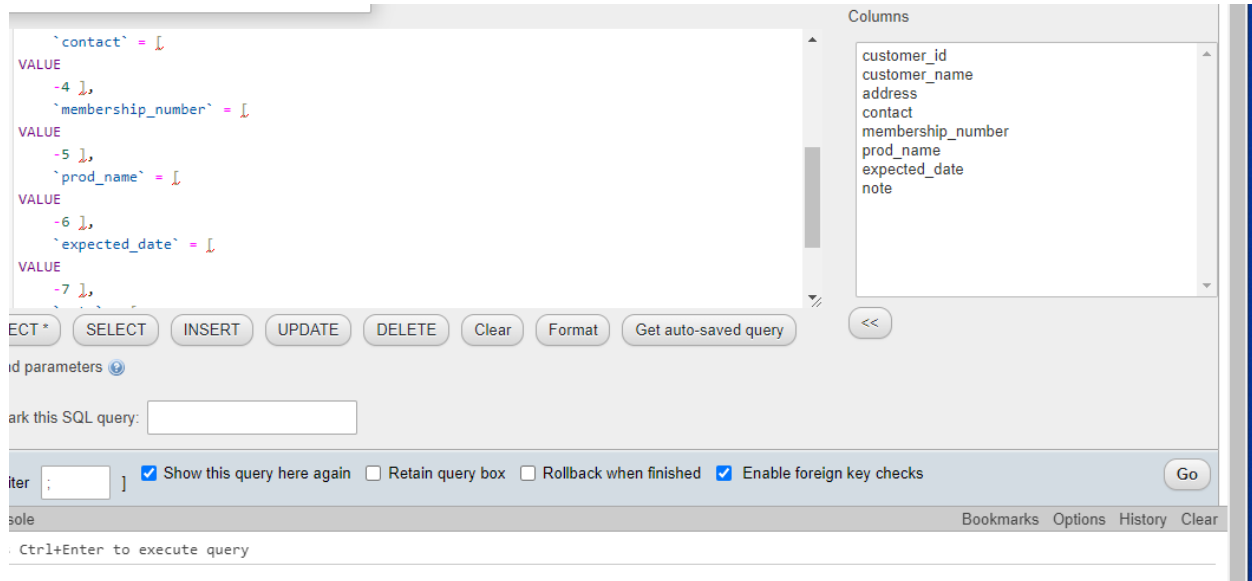


Figure:4.3 Add new customer page PHP and SQL.

Transaction list page in beneath here picture:

The screenshot shows a database management interface with a sidebar on the left containing a tree view of tables. The main area displays the 'Table structure' for a table named 'supplier_transactions'. The table has 12 columns with the following details:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(10)		UNSIGNED	No	None			Change Drop Mc
2	sup_id	int(10)		UNSIGNED	No	None			Change Drop Mc
3	reference_no	varchar(55)	latin1_swedish_ci		Yes	NULL			Change Drop Mc
4	ref_invoice_id	varchar(55)	latin1_swedish_ci		Yes	NULL			Change Drop Mc
5	type	varchar(55)	latin1_swedish_ci		No	None			Change Drop Mc
6	pmethod_id	int(11)		UNSIGNED	No	0			Change Drop Mc
7	description	text	latin1_swedish_ci		No	None			Change Drop Mc
8	amount	decimal(25,4)			No	0.0000			Change Drop Mc
9	store_id	int(10)		UNSIGNED	No	None			Change Drop Mc
10	created_by	int(10)		UNSIGNED	No	None			Change Drop Mc
11	created_at	timestamp			Yes	NULL			Change Drop Mc
12	updated_at	timestamp			No	current_timestamp()	ON UPDATE CURRENT_TIMESTAMP()		Change Drop Mc

At the bottom of the interface, there is a console area with the text: 'Press Ctrl+Enter to execute query'.

Figure 4.4 Transaction list Page PHP in SQL.

Supplier page are beneath the picture:

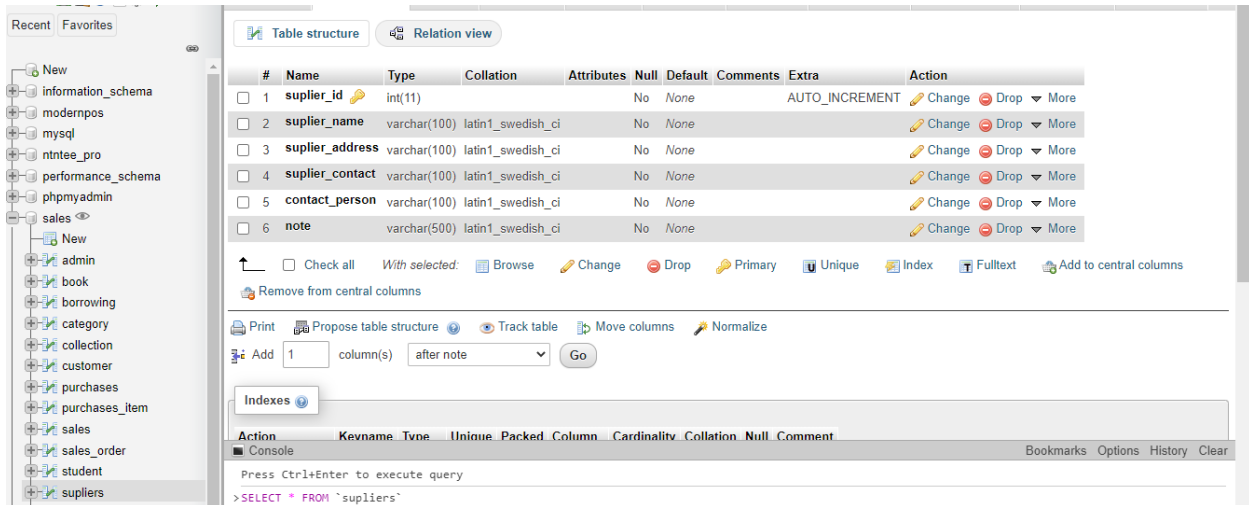


Figure 4.5 Supplier paged PHP in SQL.

Product page is given bellow:

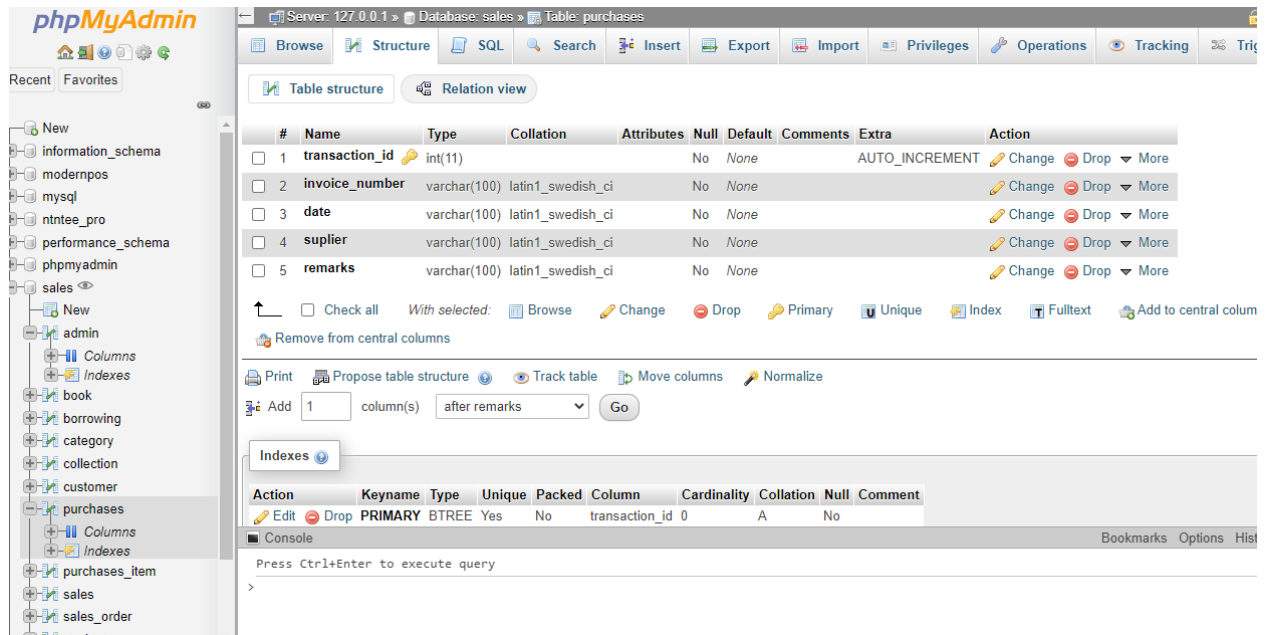


Figure: 4.6 product page PHP code in notepad++

category list info page work is specified beneath in picture:

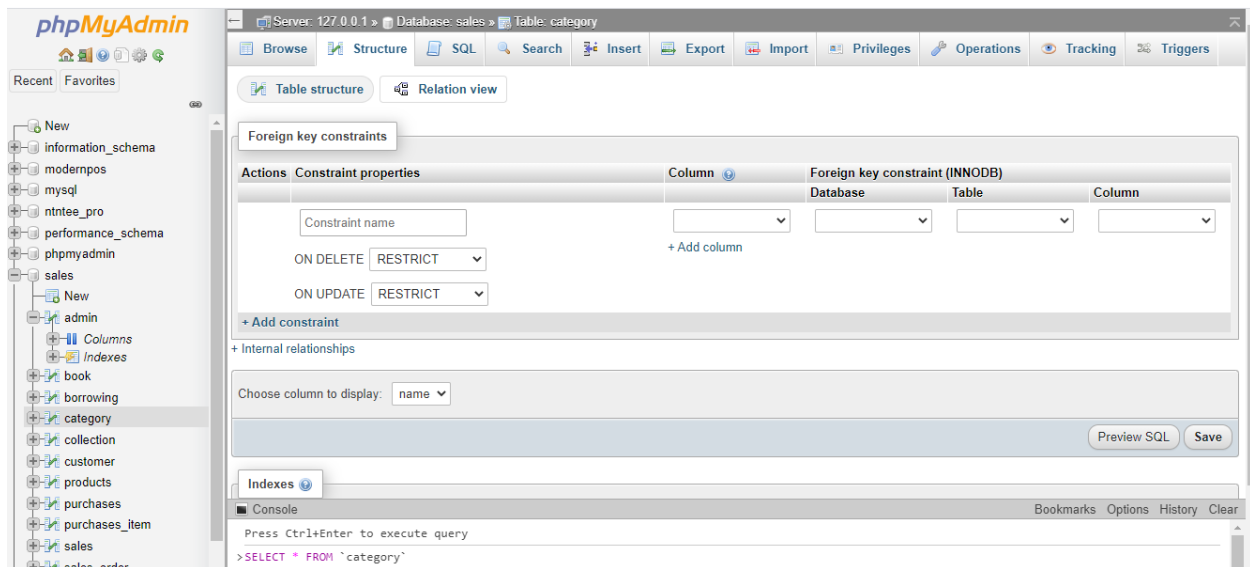


Figure: 4.7 Category page PHP code in notepad++

The stock alert design of the page. To make this design visual php language have been worn and the ciphering bit for the PHP is specified beneath in picture:

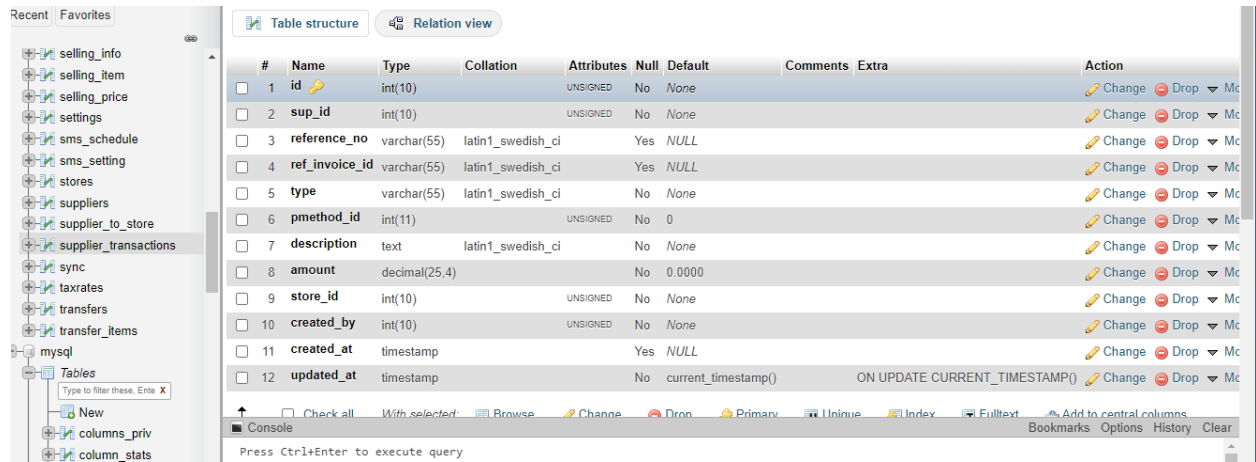


Figure: 4.8 Stock Alert page PHP code notepad++

The PHP code to build the over slog is specified beneath in figure:

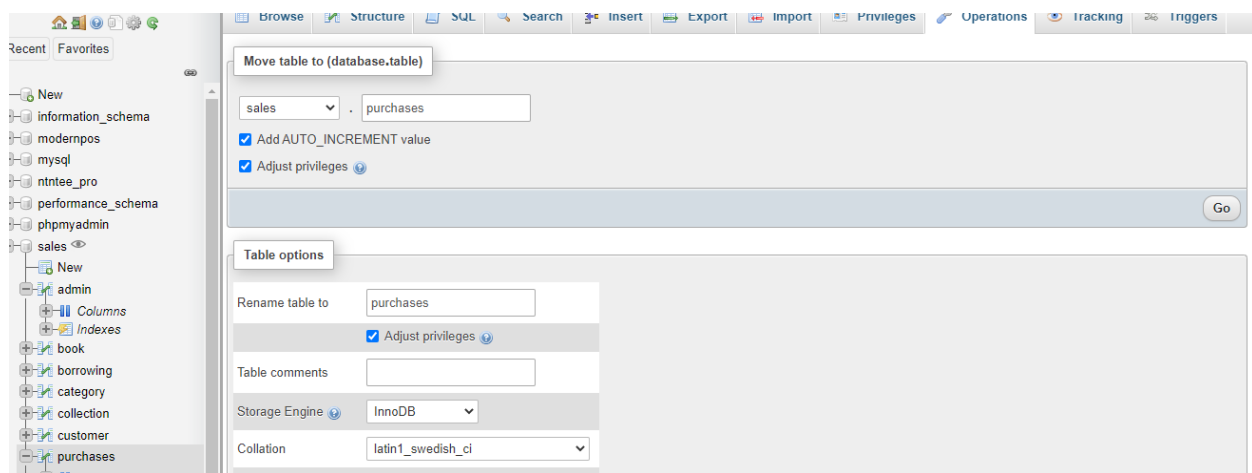


Figure:4.9 Purchase list Page and PHP Code in and mysql

Gift card page work is given below in figure:

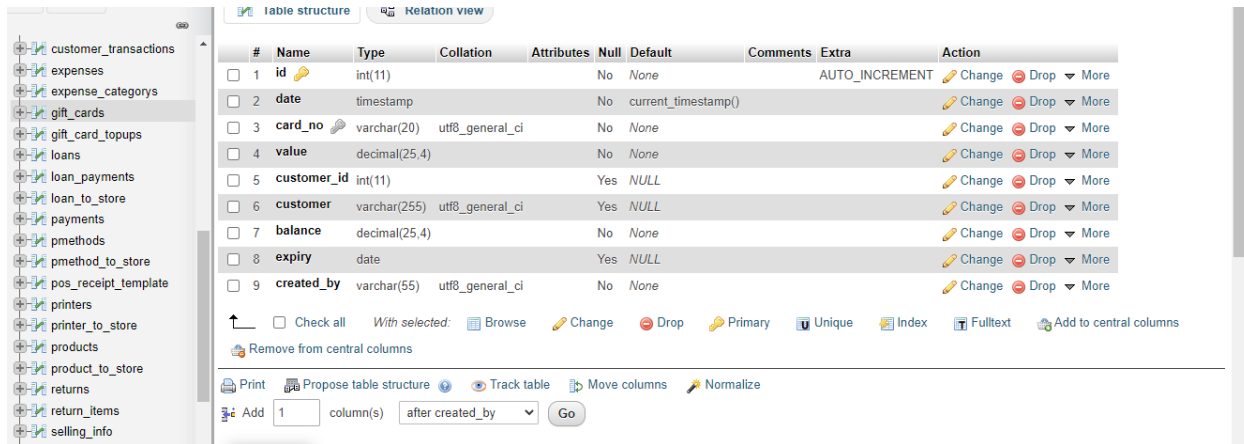


Figure:4.10 gift card list page and PHP in mysql

Gift card top up page work in given below figure:

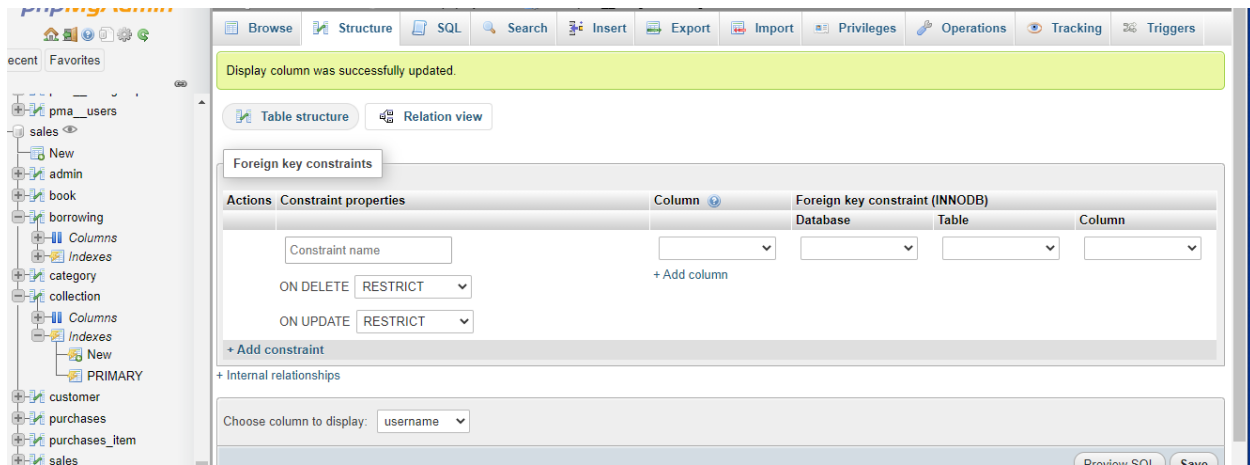


Figure:4.11 Gift card top up page and PHP in mysql

In this application are used to sms page, is given below figure:

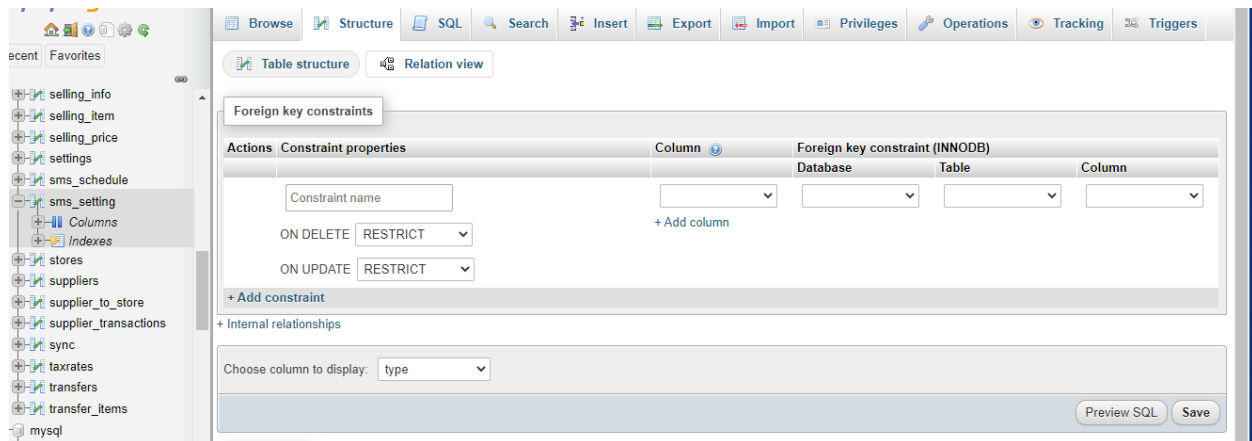


Figure: 4.12 Sms code page PHP in sql

This is user page used in notepad++ is given below figure:

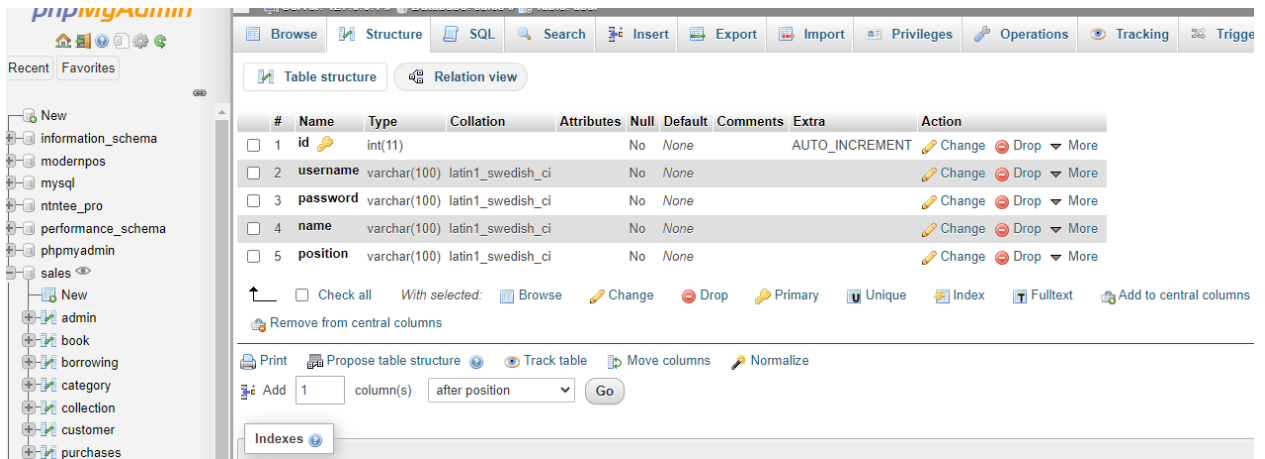


Figure:4 13 User code page PHP in mysql

But this is not the end of the project design. There are still so many codes for designing this application.

4.2 Back-end design

Principle activity of the applications are happened with behind plan. This is a main piece of an application. Total rationale of an applications are below. reduction or showing rationale of behind part information are offered bit by bit. And create to keep up a behind segment had utilized mysql information base in my application which is given in picture 4.7.

Table	Action	Rows	Type	Collation	Size	Overhead
bank_accounts	☆ Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16 K	-
bank_account_to_store	☆ Browse Structure Search Insert Empty Drop	0	InnoDB	latin1_swedish_ci	16 K	-
bank_transaction_info	☆ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	32 K	-
bank_transaction_price	☆ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	16 K	-
boxes	☆ Browse Structure Search Insert Empty Drop	1	InnoDB	utf8_general_ci	16 K	-
box_to_store	☆ Browse Structure Search Insert Empty Drop	1	InnoDB	utf8_general_ci	16 K	-
buying_info	☆ Browse Structure Search Insert Empty Drop	6	InnoDB	utf8_general_ci	16 K	-
buying_item	☆ Browse Structure Search Insert Empty Drop	6	InnoDB	utf8_general_ci	16 K	-
buying_payments	☆ Browse Structure Search Insert Empty Drop	6	InnoDB	utf8_general_ci	16 K	-
buying_price	☆ Browse Structure Search Insert Empty Drop	6	InnoDB	utf8_general_ci	16 K	-
buying_returns	☆ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	32 K	-
buying_return_items	☆ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8_general_ci	48 K	-
categorys	☆ Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16 K	-
category_to_store	☆ Browse Structure Search Insert Empty Drop	6	InnoDB	utf8_general_ci	16 K	-
currency	☆ Browse Structure Search Insert Empty Drop	14	InnoDB	utf8_general_ci	16 K	-
currency_to_store	☆ Browse Structure Search Insert Empty Drop	14	InnoDB	utf8_general_ci	36 K	-
currency_to_store	☆ Browse Structure Search Insert Empty Drop	6	InnoDB	utf8_general_ci	16 K	-

Figure 4.14 Database table Mysql

This is a database system entities that shown in figure 4.9

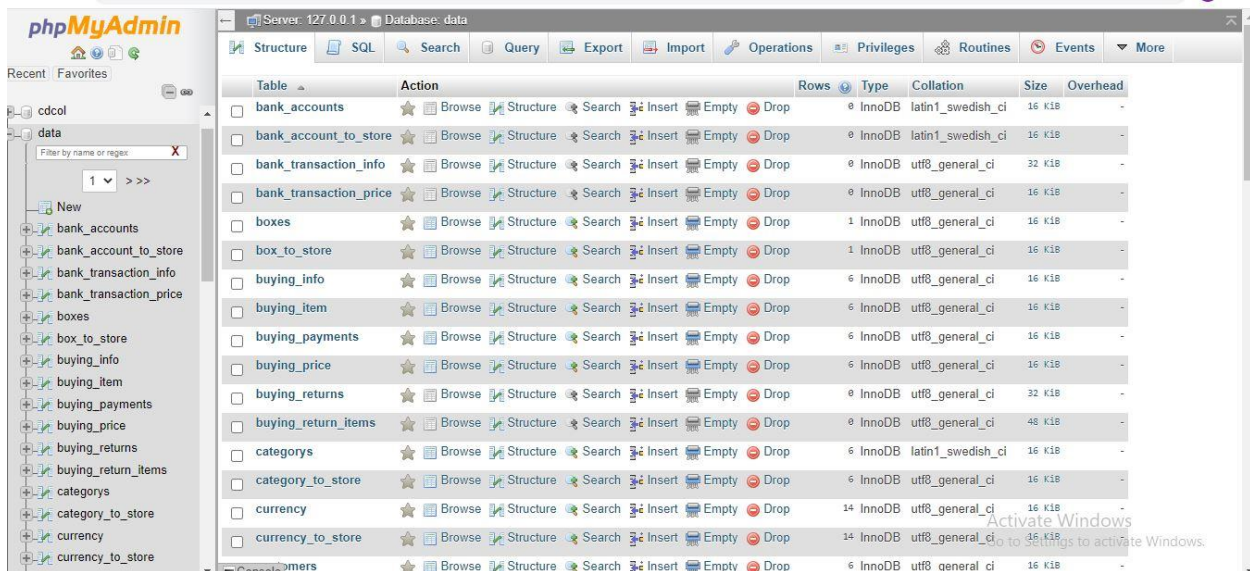


Figure 4.15 Mysql Database Page

4.3 Interaction Design

Affiliation styled revolves around an approach so coordinated effort among customer and advancement. To use an application pleasing or adequately and to understand the participation plan of the application should be so clear and direct by the customer.

Besides, UX suggests customer incident. it is besides the part huge while association plan.

Recollecting certain component progress endeavored by improve on the web system also straightforward as well customers do operate that application viably for their innovation.

4.4 Implementation Requirements

The application is a web application for building up the application have utilized smatter product, for example:

Xampp

It is a full bundle for creating web applications. I have utilized xampp 5.2-7.2

Notepad++

It is a product improvement pack that assists with making applications for the web stages [4].

It has some valuable devices, for example, source code, advancement devices and helpful libraries to create and web applications.

Browser

Chrome liberates engineers to center making awesome client encounters [5]. By the methods for Chrome clients can adjust the datastore and don't need to be messed with the composing framework. I have utilized it for taking care of the back-finish of the application.

CHAPTER 5 IMPLEMENTATION RESULTS AND TESTING

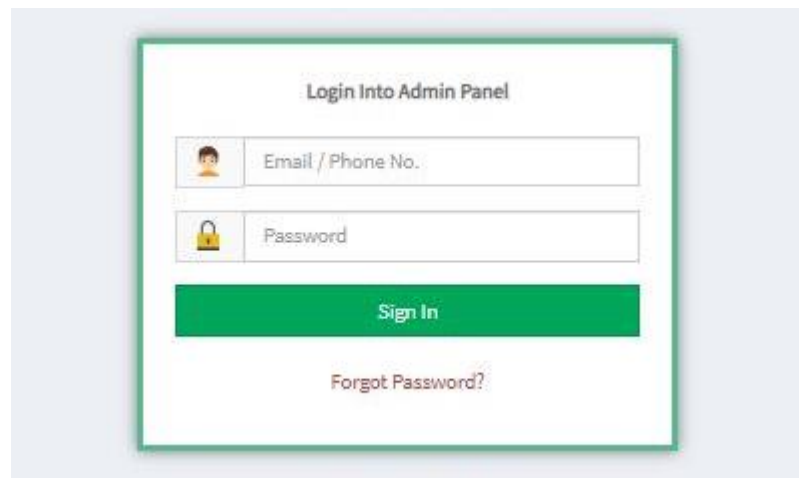
5.1 Database Implementation

Mysql liberates designers center making fabulous client encounters. By the methods for mysql clients can adjust the datastore and don't need to be disturbed by composing. I have utilized it for taking care of the back-finish of the application.

My application mysql has predominantly one frameworks. These frameworks convey immense information for the entire application.

5.2 Implementation of Front-End Design

After an execution, total things considered, includes, and the web system was fruitful'. It works consummately. The subtleties are informed beneath:At first, a logging activity takes place.



The image shows a login form titled "Login Into Admin Panel". It contains two input fields: the first is labeled "Email / Phone No." and has a person icon; the second is labeled "Password" and has a lock icon. Below the fields is a green button labeled "Sign In". At the bottom of the form is a link labeled "Forgot Password?".

Figure 5.1: Logging Page

Admin have to do logging to enter the system .

After logging goes to the dashboard. This page shows all activity

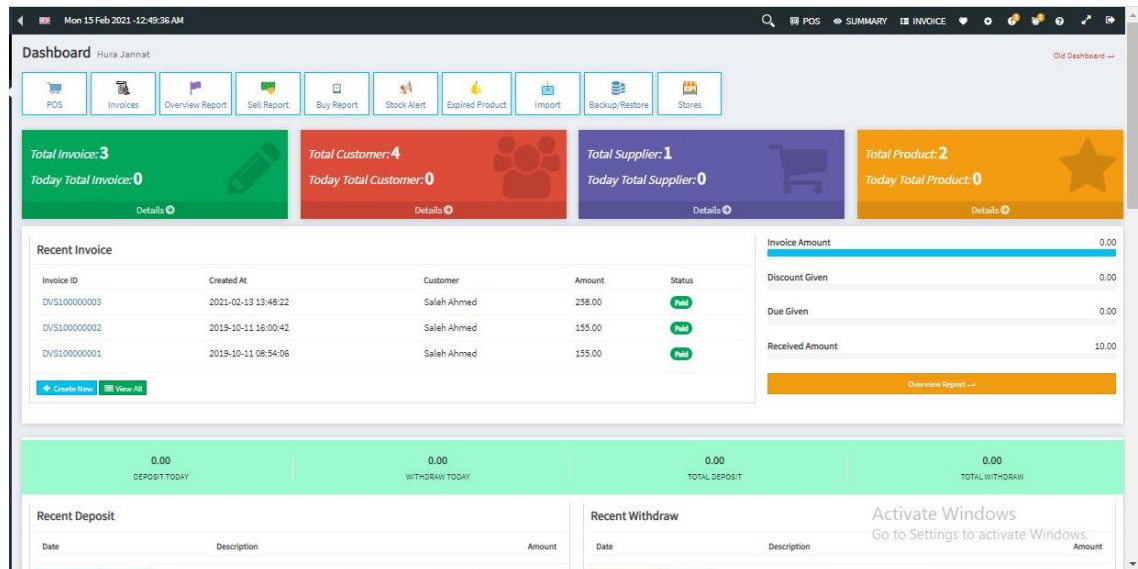


Figure 5.2: Dashboard Page

Dashboard page shown all every system activities day, week, month, yearly tracking thing are save this Dashboard page.

This is point of sale page are bellow:

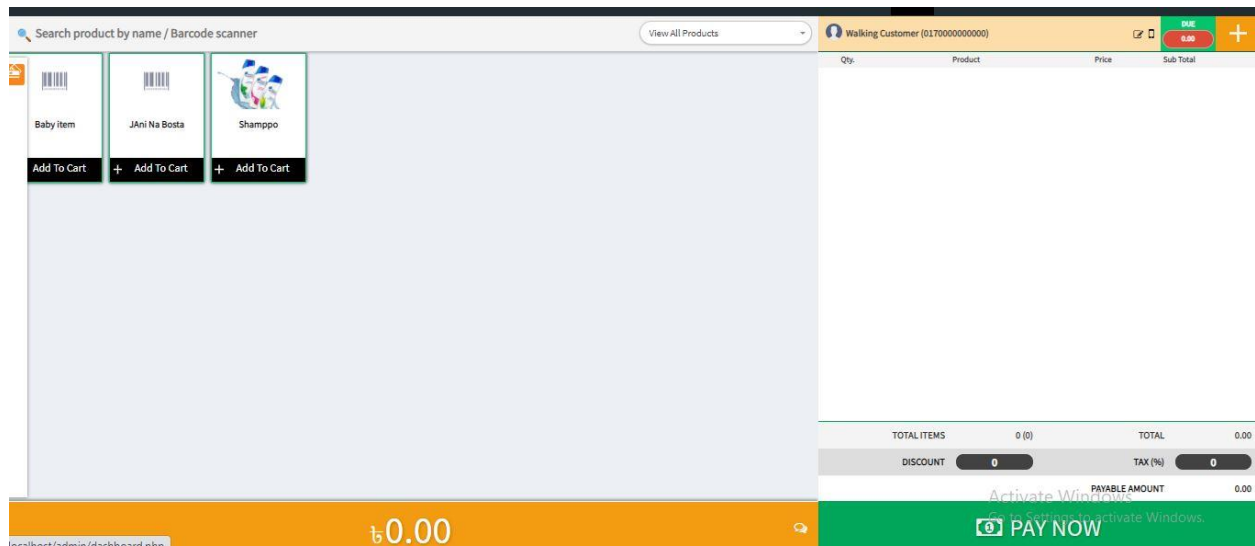


Figure 5.3: Point off sell page

If any customer want to buy something seller man go to this site. And do search new or old customer after ensure customer they have completed their activity.

After that if any customers are new, companies have to add a new customer list to sell their product.

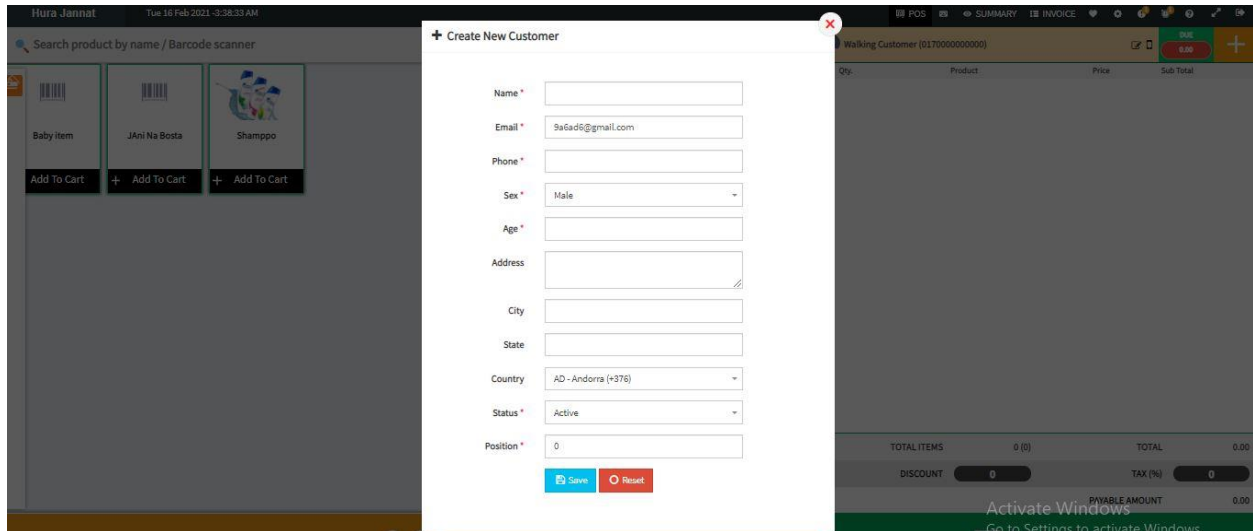


Figure 5.4: Add new customer page

If customer want some product their have to need info for save sells system.If any customer are new sytem uer add customer page that customer.After processing customer address be saved then any issue easily contucting with customer.

This is all view product page under in picture:

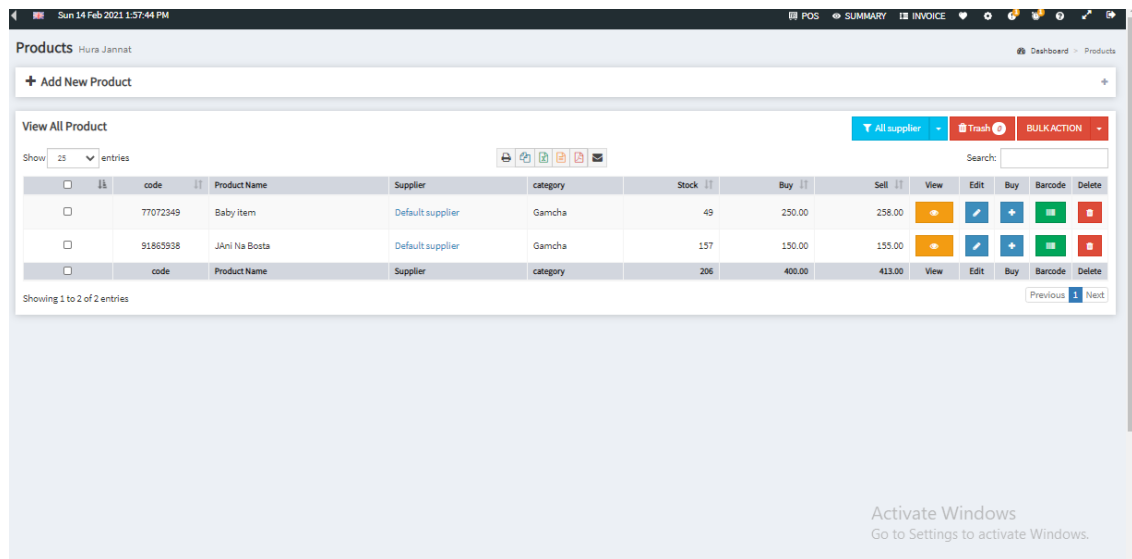


Figure 5.5:Product page.

What type product have companies and shopkeeper that shown. User can add more product this page that easily findout that what type product have their system.

Add new product page for another new product. Below in figure:

The screenshot shows a web application interface for adding a new product. The page title is "Products" with a sub-header "Hura Jannat". The breadcrumb trail is "Dashboard > Product". The main heading is "Add New Product". The form includes the following fields:

- Image:** A placeholder icon for an image.
- Product Name *:** A text input field.
- code *:** A text input field containing "95479439".
- category *:** A dropdown menu with "Please Select" and a plus sign.
- Supplier *:** A dropdown menu with "Please Select" and a plus sign.
- Expired at *:** A text input field containing "2022-02-16".
- Alert Quantity *:** A text input field containing "10".
- Unit *:** A dropdown menu with "box" and a plus sign.
- Tax *:** A dropdown menu with "No Tax" and a plus sign.
- Tax Method *:** A dropdown menu with "Inclusive".
- Box *:** A dropdown menu with "Common Box" and a plus sign.
- Store *:** A checkbox labeled "Select / Deselect" and a search input field containing "search".

An "Activate Windows" watermark is visible in the bottom right corner of the screenshot.

Figure: 5.6 Add product page.

When owner will do add new product then must add this page here. A company's main thing product. They have first thinking have to what kind of product need that they want to run their business. If successfully set their product plan they have to product add activity will go on.

Here is product category page. Below in figure:

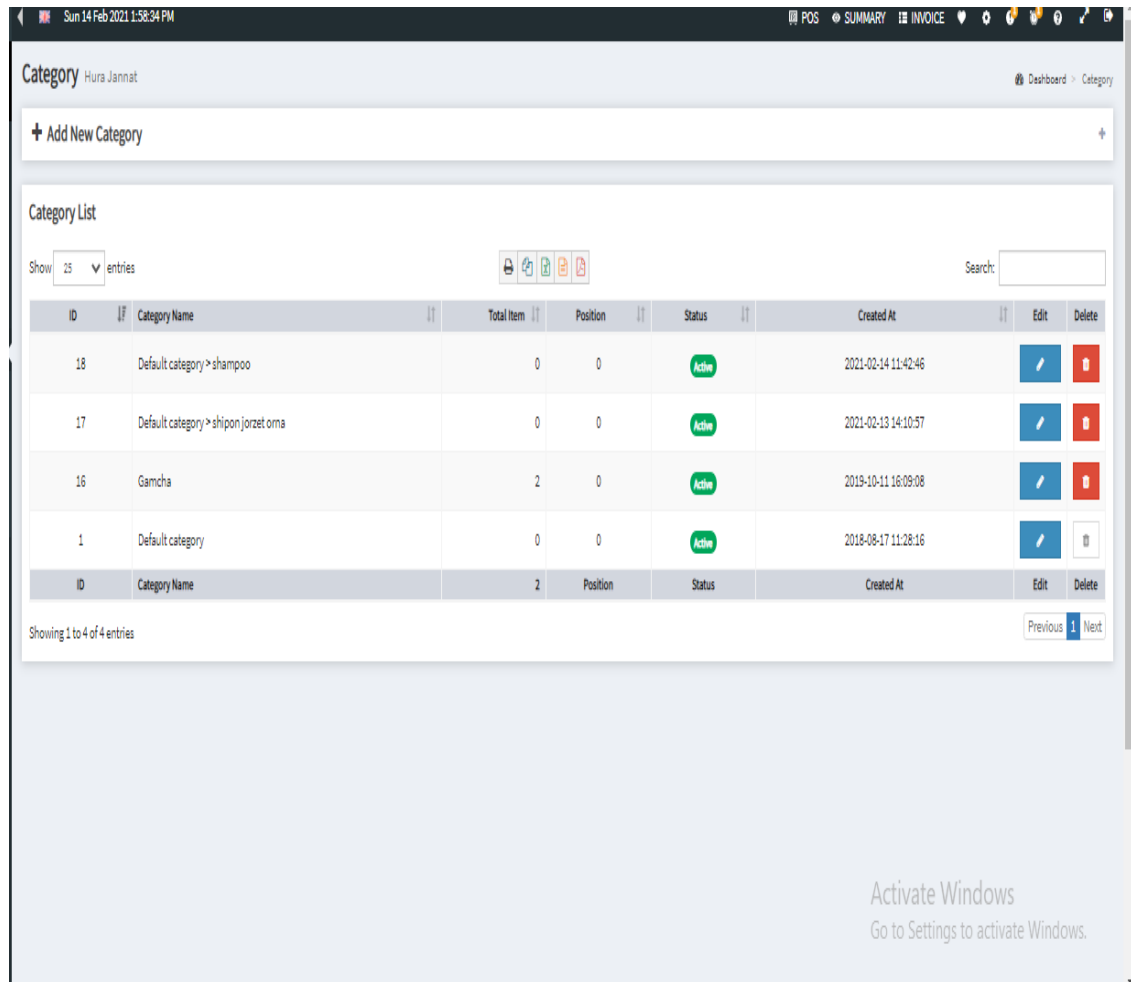


Figure 5.7:Category page.

This is category page here what kind of product have my business that be shown .and when user add product they must add category so that easily findout product item.

If user want to purchase product they have to go add product list page. there will be need supplier. When user purchase product have to go add purchase page and need to supplier. they search supplier if supplier are new then have to do add new supplier Here are the purchase page is below in figure:

The screenshot shows a web form for adding purchase information. At the top, there is a 'Supplier' dropdown menu with the text '--- Please Select ---'. Below this are three input fields: 'Invoice ID', 'Date' (containing '2021-02-16'), and 'Time' (containing '01:52 AM'). A 'Search Product' field with a magnifying glass icon and the placeholder 'Search Product Here...' is positioned below the date and time fields. The main part of the form is a table with the following columns: Product, Available, Quantity, Buy, Sell, Tax, and Sub Total. The 'Sub Total' column is further divided into 'Payable Amount' and 'Paid', both showing '0.00'. Below the table, there is an 'Attachment File' field with a 'Choose file' button and a 'Force upload' checkbox. A 'Note' text area is located below the attachment field. At the bottom of the form is a prominent blue button labeled 'Buy Now'.

Figure5.8: Add purchase page info

Here are purchase processing page that process have available product, quantity, how many buy and sell, tax and sub total. If available product are not then process be error buying time.

User search supplier if supplier are new then have to do add new supplier Here are the supplier page is below in figure:

The screenshot shows a web application interface for adding a new supplier. The page title is 'Supplier: Hura Jannat'. Below the title is a navigation link '+ Add New Supplier'. The form contains the following fields and controls:

- Name* (text input)
- Email* (text input)
- Mobile* (text input)
- Address* (text input)
- City (text input)
- State (text input)
- Country (dropdown menu, currently showing 'AD - Andorra (576)')
- Store* (checkbox labeled 'Select / Deselect' and a search dropdown menu. The search dropdown is open, showing 'search' and 'Hura Jannat' with a checked checkbox).
- Details (text input)
- Status* (dropdown menu, currently showing 'Active')
- Position* (text input)

At the bottom of the form are two buttons: 'Save' (blue) and 'Reset' (red).

Figure5.9: Add supplier page.

Any companies and any shopkeeper must need a supplier for their business. Because supplier can give such product as owner wants. Here old supplier have their name, id, address all necessary information. And contact easily with supplier for their product. If will have need another product user have to add new supplier.

If user want to give on some product then user goes to gift card page.

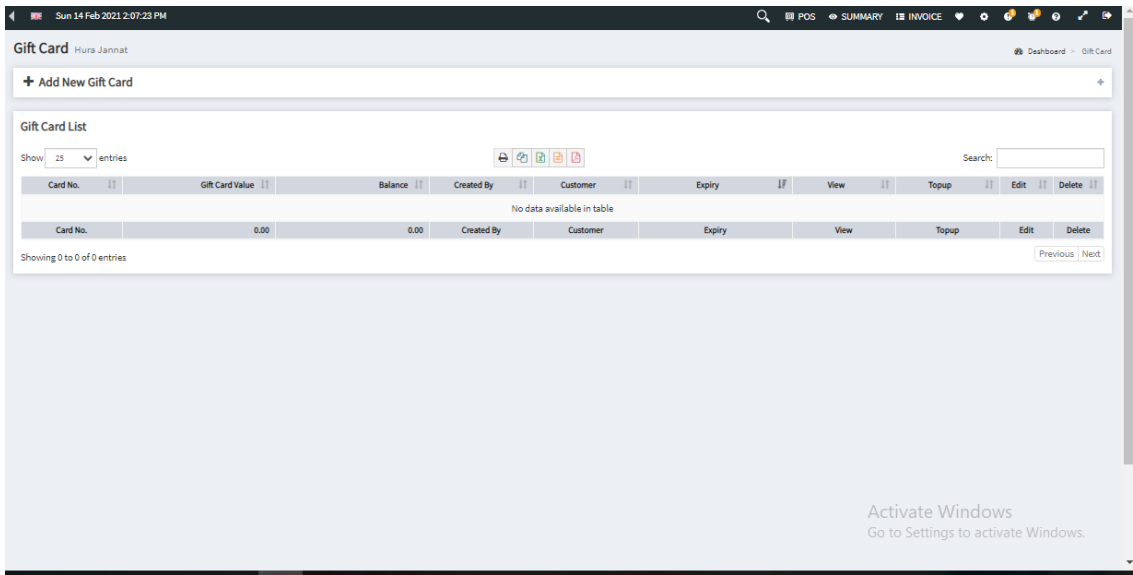


Figure 5.10: Add gift card page page.

Owner can keep gift system for customer,if user want to give some product with gift card then have to go this page and completed these work.

Here is overview report page bellow on figure :

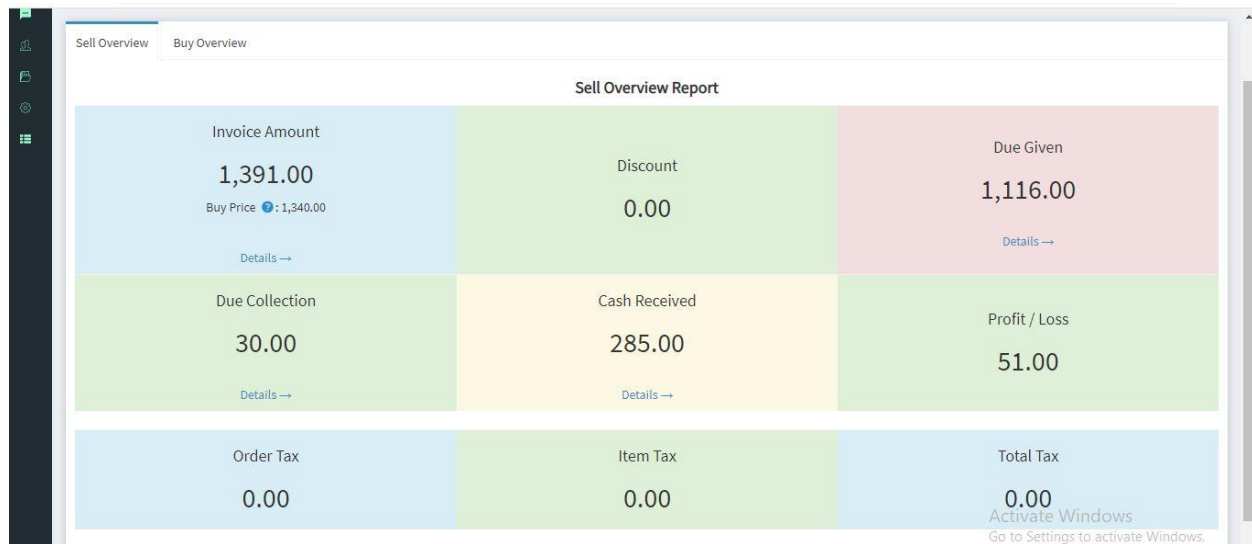


Figure 5.11 :Add overview report Page

Here sell overview showed, like total tax,order tax,item tax,cash receive ,due collection,discount amount,due collection all reported page .

User can contact to supplier or customer by sms send page. Below in figure

The screenshot shows a web interface for sending SMS. At the top left, it says 'SMS Hura Jannat'. At the top right, there's a breadcrumb 'Dashboard > Send SMS'. Below that, the main heading is 'Send SMS'. There are two tabs: 'Single SMS' and 'Group SMS'. The 'Single SMS' tab is active. The form has two main fields: 'Phone Number *' and 'Message *'. The 'Message *' field is a text area with a note below it: 'Max character: 160'. At the bottom of the form is a blue 'Send' button with a paper plane icon.

Figure 5.12: Sms send page.

User can give message to supplier, customer by sms send page.

User list page below in figure:

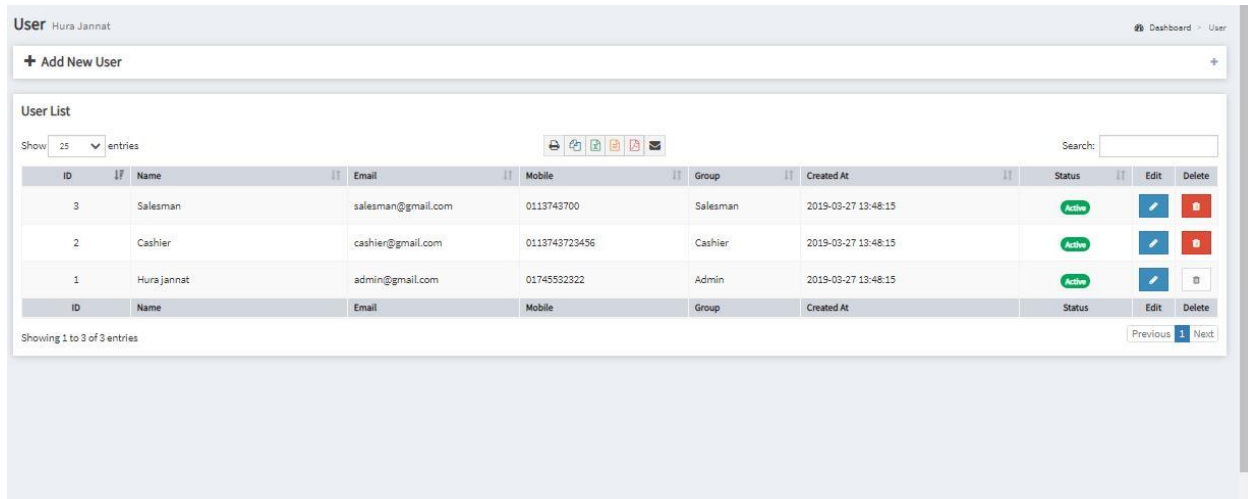


Figure 5.13: User page.

Here is user page that owner can add more user here as use as there and only owner can control this all process.

If one user have more store or company they can go from this page below in figure:

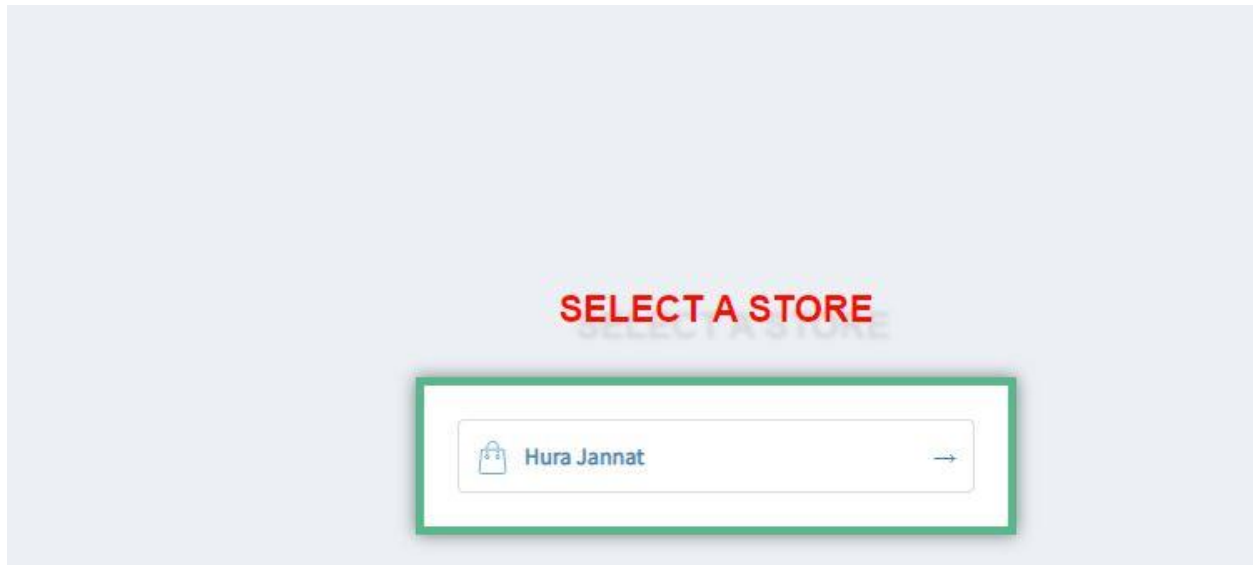


Figure: 5.14 select a store page.

Here is the all procedure of companies managing systems.

5.3 Implementation of Interactions

To build an application much cust-off the application have to be many collective. By build an application it to be need

Substance plan with a buyer helpfull approach. For a suitable organization the style should comprise moral page and pleasing styled.

I have attempt to build a application much collective to the owners. That, I build the organization flexible

for the greater owner incident.

5.4 Testing Implementation

It is a primary interaction of analysis the execution of the framework. This is an approach comprehend if an application is functioning admirably true to form.

Table 5.1: Testing Implementation

No	Entity Name	Description	pseudonyms	Occurrence
1	Logging	Enter email and secret word to enter the framework	Admin	Login Complete
2	User	User can do all framework oversee	shopkeeper and Company	successfully system
3	Products	portrays all the thing the organization will be convey	distributing item	Every item has its own provider and its unique in relation to other
4	Supplier	Production of makers who supply thing dissemination	mainly manufacturer	Every provider manages its own item
5	Customer	Retailer shop who orders items from the organization	Retailer shop	There are numerous retailer shops in a single neighborhood.
6	Purchase	Add buy, list due receipt to get appropriate worth exchange list shown	purchase occur	This is significant alternative for clients and friends.

5.5 Test Results and Report

To have looked at my web system to discover if this functions as more anticipated. Along these lines, the testing results will cause us to comprehend the limits of my framework and assist us with improving it. I attempted to test each capacity I utilized in this application to make the application fruitful one. I have tried my Inventory the board framework application commonly with various program to watch that effort is effectively or other. Lastly, this task impeccably as I hoped for each program.

.Chapter 6

Conclusions and Future Scope

6.1 Discussions and Conclusions

Presently a-day this is the period of digital conversion. By building this application we are digital recording the correspondence framework between companies, customers and suppliers which encourages protectively to manageable pattern.

6.2 Scope for Further Developments

I have additionally idea for additional development and attach more highlights in this application.

This treble the hardly unmistakable distinction between recharging lead time, progress on costs of goods, benefit association, goods assessing, stock valuation, stock deceivability, future stock price checking, actual goods, available actual area for goods, status association

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APPENDIX

Appendix A: Project Reflection

This is a reflection of my project. In Spring 2020 had begun my excursion to build my web system. A fundamental reason for this system is so the retailer can oversee everything effectively inside a brief timeframe.

This web application is additionally another office for retailers, providers and organizations to right away converse with one another about their item, time and date by informing framework. Right off the bat, we construct a progress chart of my web system to see that how to it will stream bit by bit. Even though After more difficult activity and investing energy at the back of this system at long last arrive at my goal.

PLAGIARISM

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