VISVESVARAYA TECHNOLOGICAL UNIVERSITY

BELAGAVI, KARNATAKA

Mini Project Report

On

"INVENTORY MANAGEMENT SYSTEM"

Submitted to

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

In partial fulfillment of the requirements for the award of degree of

BACHELOR OF ENGINEERING

IN

COMPUTER SCIENCE ENGINEERING

PROJECT ASSOCIATES

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

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(AFFILIATED TO VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI & APPROVED BY AICTE & ACCREDITED BY NBA, NEW DELHI)

BALLARI - 583104, KARNATAKA

2022-2023

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C E R T I F I C A T E

Certified that the Mini Project work entitled **"INVENTORY MANAGEMENT SYTSEM"** carried out by **BHARGAVI U(3VC20CS036), DIVYA SHREE(3VC20CS044)** are bonafide students of **Rao Bahadur Y.Mahabaleswarappa College of Engineering** in partial fulfillment for the award of **Bachelor of Engineering in Computer Science Engineering** of the Visvesvaraya Technological University, Belagavi during the year **2022-2023**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the said Degree.

Signature of the Project Guide

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Signature of the HOD

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HOD, Dept of CSE

External viva

Name of the Examiners **Signature with date**

1. _____

2. _____

CO No	Description
C308.1	Use DDL and DML commands for database creation and manipulation.
C308.2	Demonstrate the working of different concepts of DBMS
C308.3	Use SQL commands for processing the queries.
C308.4	Implement, analyse and evaluate the project developed for an application

CO	Program Outcome												Specific Outcome	
	1	2	3	4	5	6	7	8	9	10	11	12	S1	S2
1	2	3	3		3	2					2			2
2	2	2			3	2					2			2
3	2	2	3	2	3	2			3	2	2			2
AVG	2	2.3	3	2	3	2			3	2	2			2

ACKNOWLEDGEMENT

After the completion of our "**INVENTORY MANAGEMENT SYSYTEM**". We learnt many things such as the basics of web development and the database management system along with the lines of team work, coordination and commitment. The successful completion of our Mini Project work, **would** be incomplete if we did not mention the people, whose guidance, encouragement, noble gesture, affection and support crowned our efforts with success. It is our privilege to express our gratitude and respect to all those who inspired and helped me in the completion of our project. All the expertise in this project belongs to those listed below.

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Project associates:

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DIVYA SHREE(3VC20CS044)

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Chapter 1: INTRODUCTION

"**INVENTORY MANAGEMENT SYSTEM**" Inventory management system which is helpful for the business operators, where shopkeeper keep the records of purchase and sales. Mismanaged inventory means disappointed customers,too much cash tied up in slower sale and warehouses .This inventory is eliminate paper work, human faults , manual delay and speed up process .This inventory management system will have the ability to track sales and available inventory, tells a shopkeeper when it's time to reorder and how much to purchase. Inventory management system is windows application developed for windows operating systems which focused in the area of inventory control and generate .The software is made up of two parts: The frontend is developed using Microsoft Visual basic 2010 and the Backend from SQL server Database 2008. Keywords: Database, Inventory, public, software.

This simple project is a **Simple Inventory Management System**. This is a web-based application project developed in **PHP** and **MySQL Database**. This project's main goal is to provide certain shops, stores, or any business with an online platform to manage their **Inventory or Product Stock**. The application helps the business to easily store, retrieve, and monitor their product stock. It has a simple and pleasant user interface with the help of **Bootstrap 5 Framework** and **jQuery** that also gives the management or end-users a better experience while using the application. This project is consists of user-friendly features and functionalities

Chapter 2 : SOFTWARE REQUIREMENTS

Requirement are major source to develop a project.

Here the number and specifications of the bikes are mentioned by the dealer,

The user gives his info to the dealer while logging in the system, this is used while booking.

An estimate cost of the bike's rent can be shown.

The database must store the details such as number and email of the. It must ensure that it is accessible only for the authorized users of the system.

And all the requirement are identified it then analyzed to understand the problem, thus implementation of the requirements can be done.

2.1 Functional requirement:

2.1.1 Admin:

This module brings about the administrator to enter the designation It helps in adding of products and product brands and other information.

2.1.2 Login form:

This module is very much of importance.

This module is useful in authorizing the user.

This prevents malicious user to access the database.

It is only accessed by the admin.

2.2 Non-Functional requirement:

2.2.1 Performance requirements

The overall system should be fast and error free.

It should have error checking facilities.

The system should be able to handle large amount of data.

It should be user friendly.

2.2.2 Reliability:

In order to ensure reliability, the system is designed using software that is established to be stable and easy to use.

It should handle invalid inputs without crashing.

2.2.3 Availability:

The system is designed to run anytime, and is readily available for the user.

Run on any system supporting the software used in this project.

2.2.4 Security:

The access of the software is given only to valid operators. The specific ID and password is used to get access the software.

Unauthorized user is denied of using the software.

Chapter 3 : DESIGN

After the requirements are collected and analyzed, we create a schema for the database.

Schema Diagram:

Brand table

Id	Category id	b name	status

Category table

category id	Name	Status

Customer table

Id	name	address	mobile	Balance

Order table

Order_id	Product_id	Total_shipped	Customer_id	Order_date

Product table

pid	categoryid	grandid	pname	model	description	quatity	unit	Base_price

Tax	Minimum_order	supplier	status	date

Purchase table

Purchase_id	Supplier_id	Product_id	quatity	Purchse_id

Supplier table

Supplier _id	Supplier_name	mobile	address	status

User table

Userid	email	Password	name	type	Status

Fig : SCHEMA DIAGRAM

Entity-Relation Diagram:

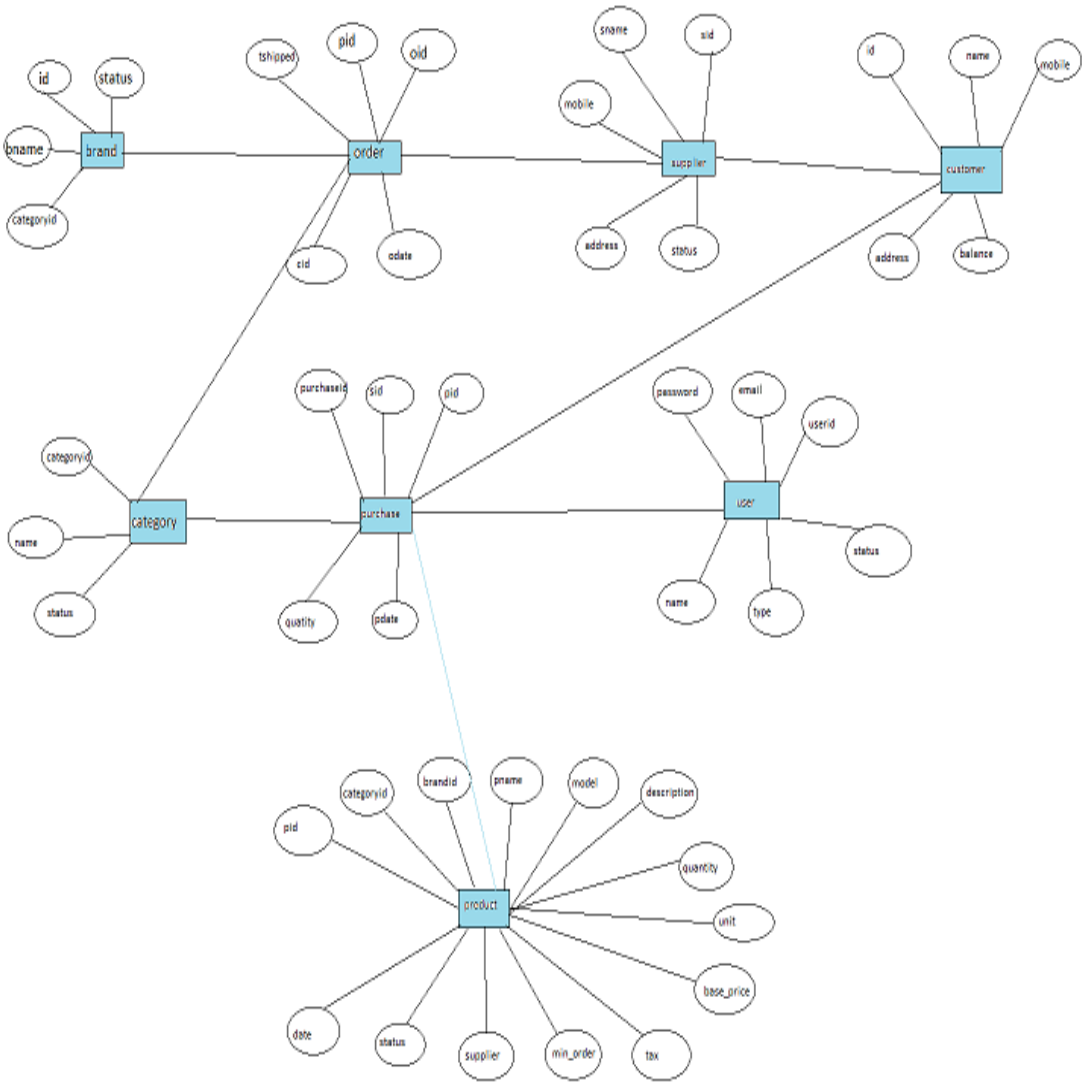


Fig : ER-DIAGRAM

Chapter 4: IMPLEMENTATION

It is an important process of development. Consisting of the following modules:

4.1 Login:

- Administrator logs into the system with validated credentials.
- The credentials of Admin includes valid username and password.
- After logging in Administrator can access the system, he/she can perform various operation.

4.2 Home Page:

- After the admin enters into the system. Home Page is displayed.
- It consists of welcome page and other information about page. The Module is used to jump to different tables.
- A disclaimer is displayed on home page. The navigation bar contains links to other modules, so that the admin can perform required operation.

4.3 Customer Details:

- This module is connected with the customer table of the database.
- It contains all the details regarding the customer or viewer. The details include name, address, gender, phone number, email

Chapter 5: TESTING

Testing can be vital for as to incur any if all discrepancy or problems with the software and take necessary precautions and make changes as possible. Testing is vital before rolling out or implementing the software

5.1 Test 1:

Case Description: Check response when valid user id and password is entered.

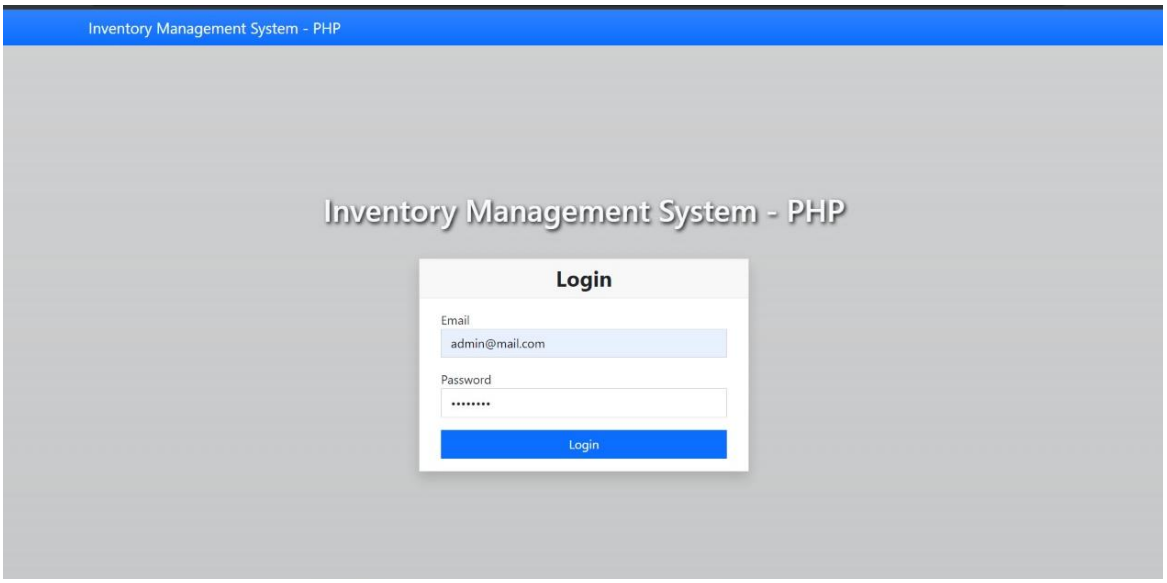
Test data :username-admin@mail.com,

password-admin123

Expected result: Login should be successful.

Actual result: Login was successful.

Test Pass/Fail: Pass.



5.2 Test 2:

Case Description: Check response when invalid or unauthenticated user id and password is entered.

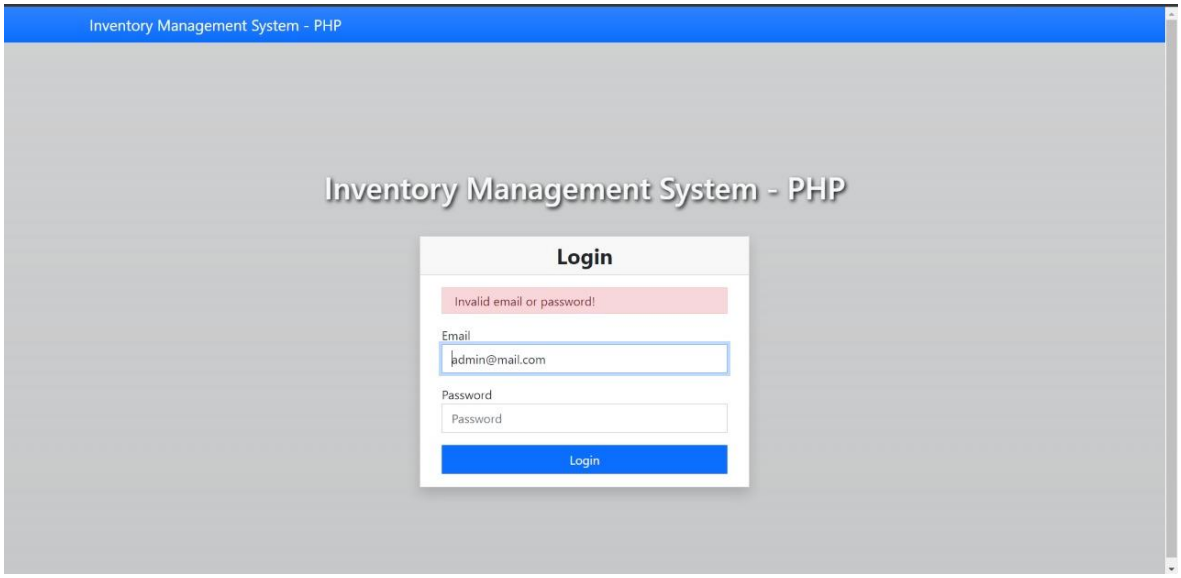
Test data: username- admin@mial.com,

password-12453

Expected result: Login should be failed.

Actual result: login is failed.

Test Pass/Fail: Pass.


Inventory Management System - PHP
Inventory Management System - PHP
Login
Invalid email or password!
Email
admin@mail.com
Password
Password
Login

Chapter 6 : TABLES

All the tables used in the project are shown here.

6.1 Brand list table:

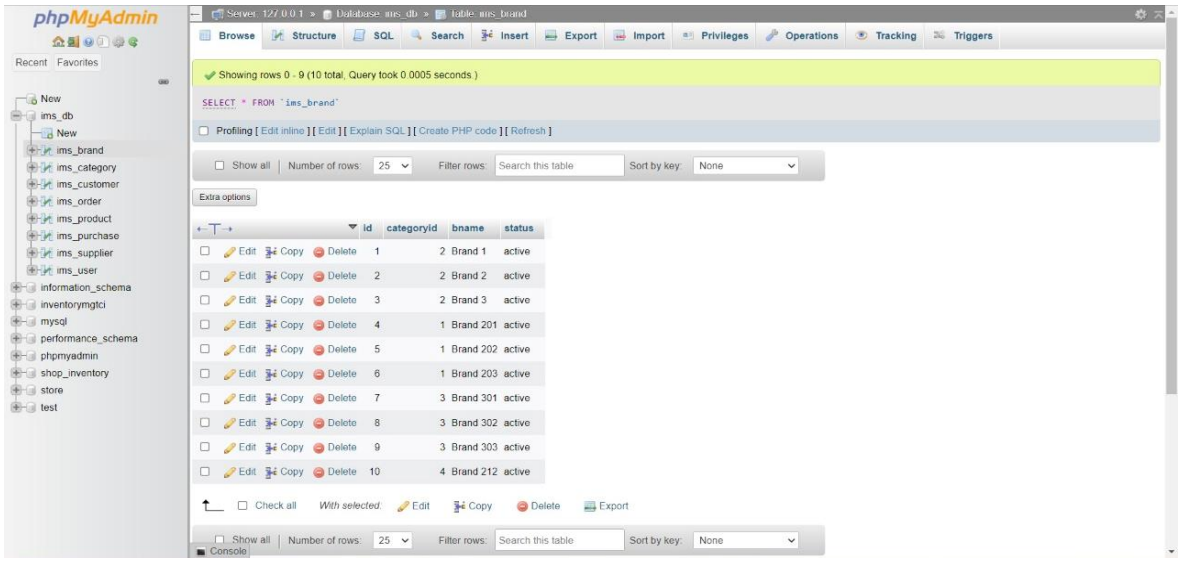


Fig : Brand list Table

6.2 Category list table

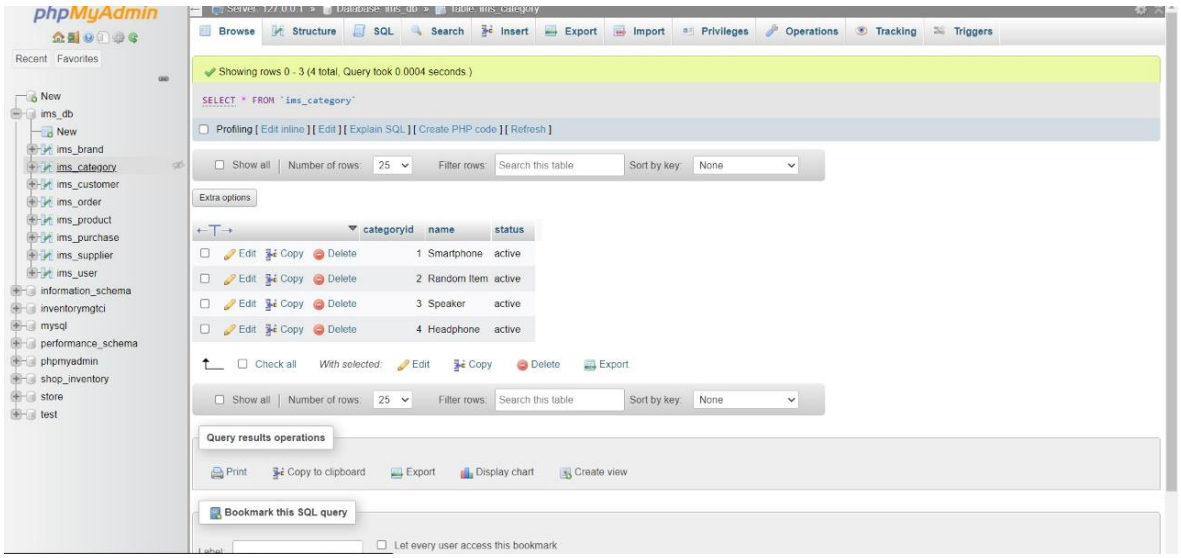


Fig : Category list Table

6.3 Customer table:

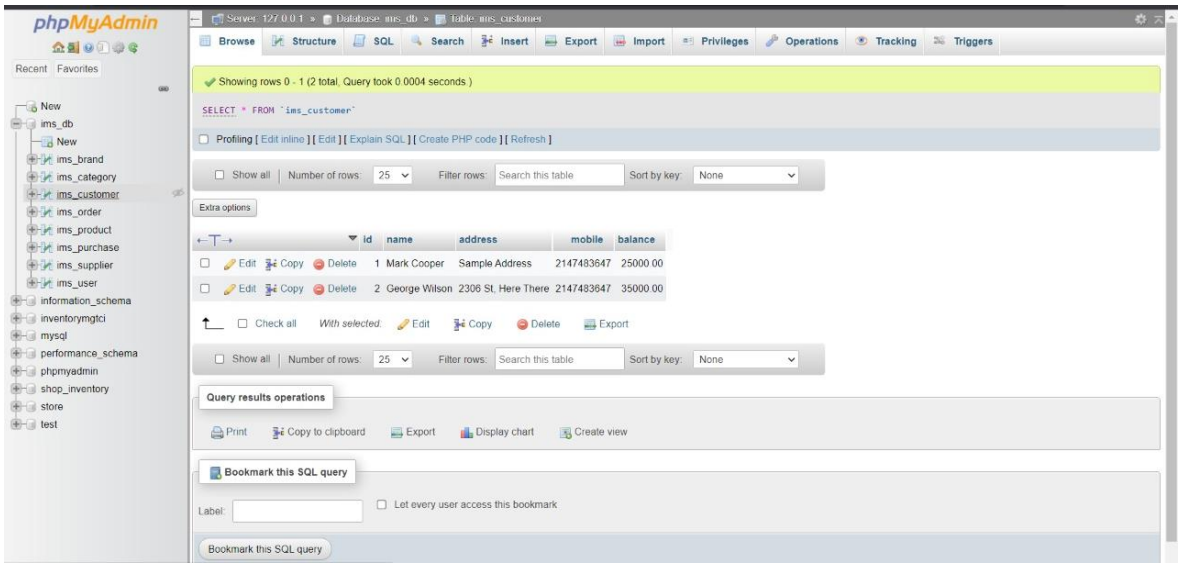


Fig : Customer Table

6.4 Order list table:

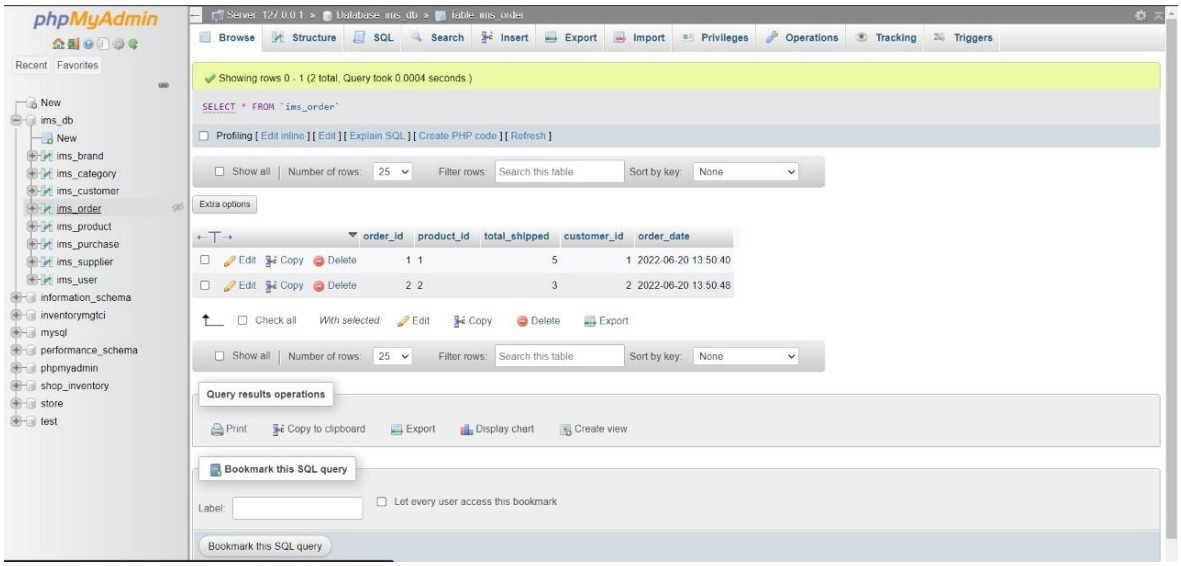


Fig : Order list Table

6.5 Product table:

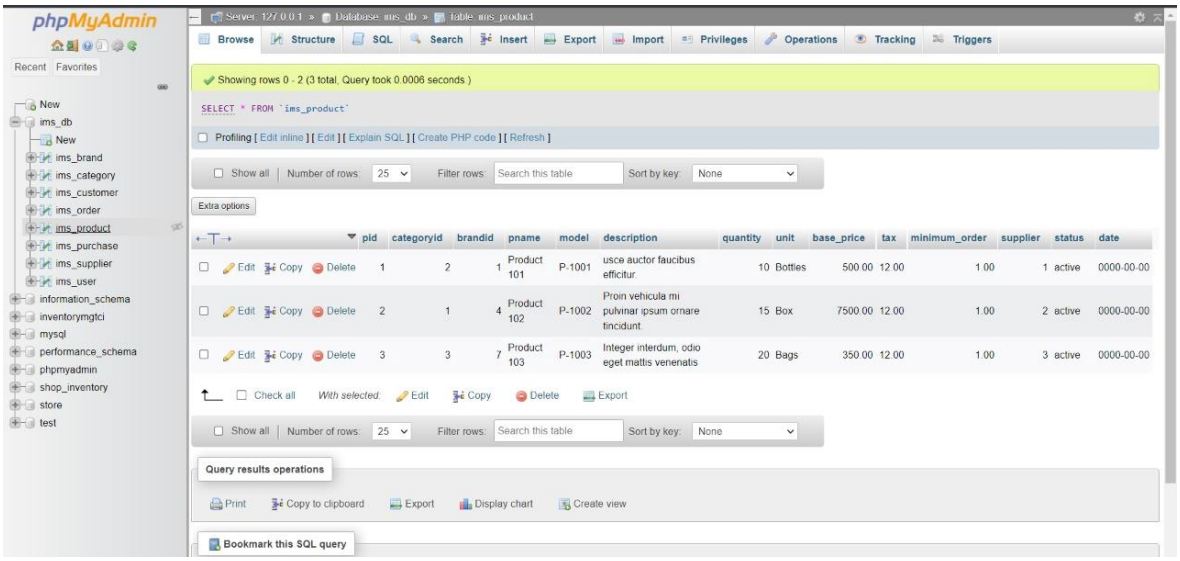


Fig : Product list Table

6.6 Purchase table:

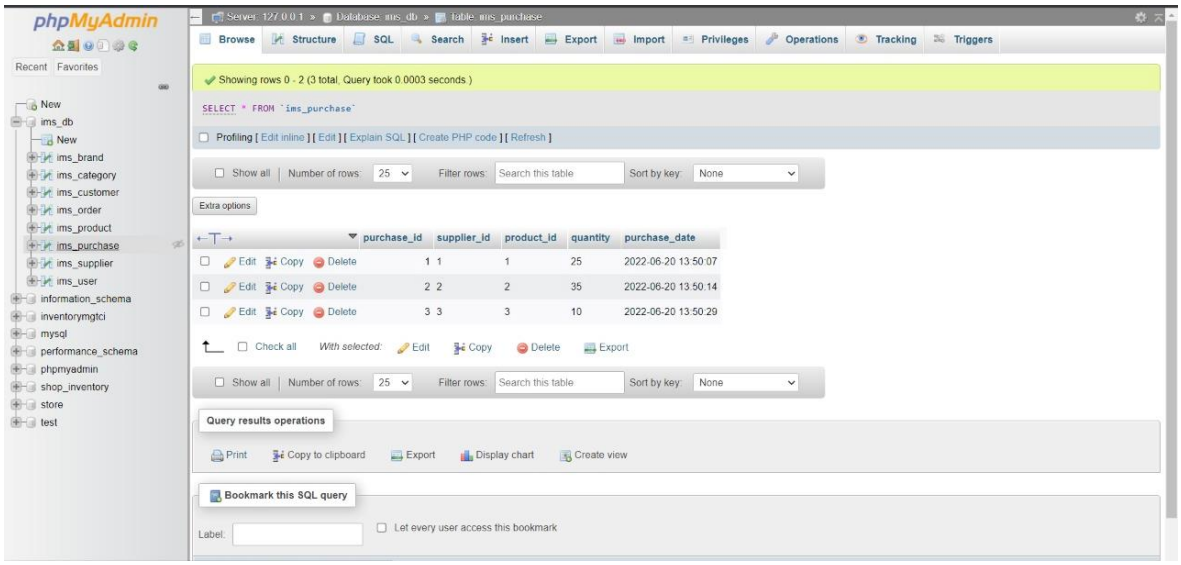


Fig : Purchase list Table

6.7 Supplier list table

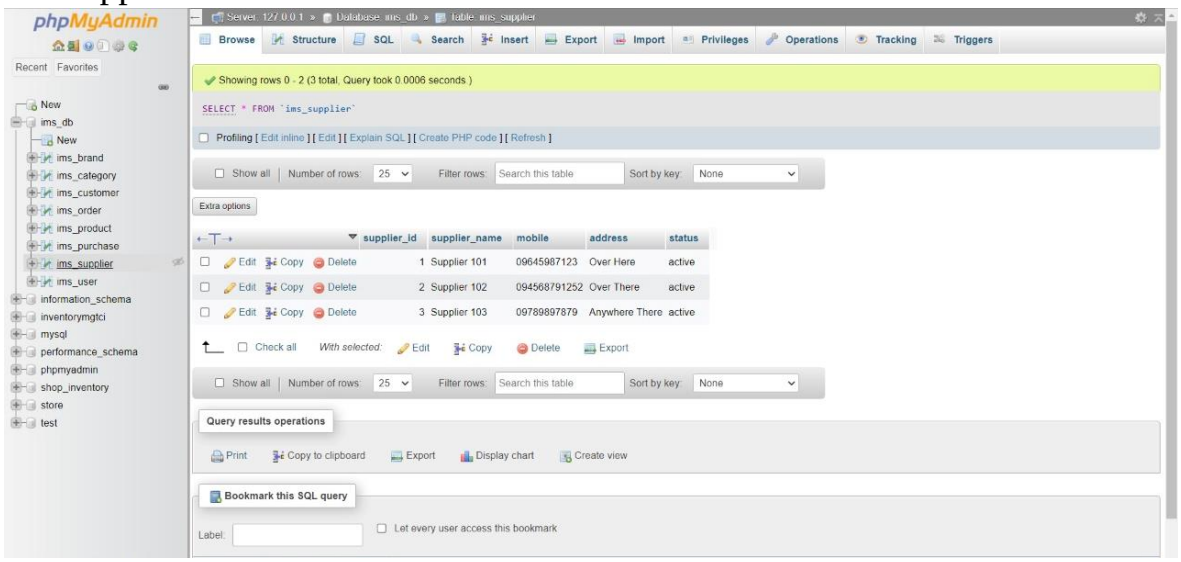


Fig : Supplier list table

6.8 User list table

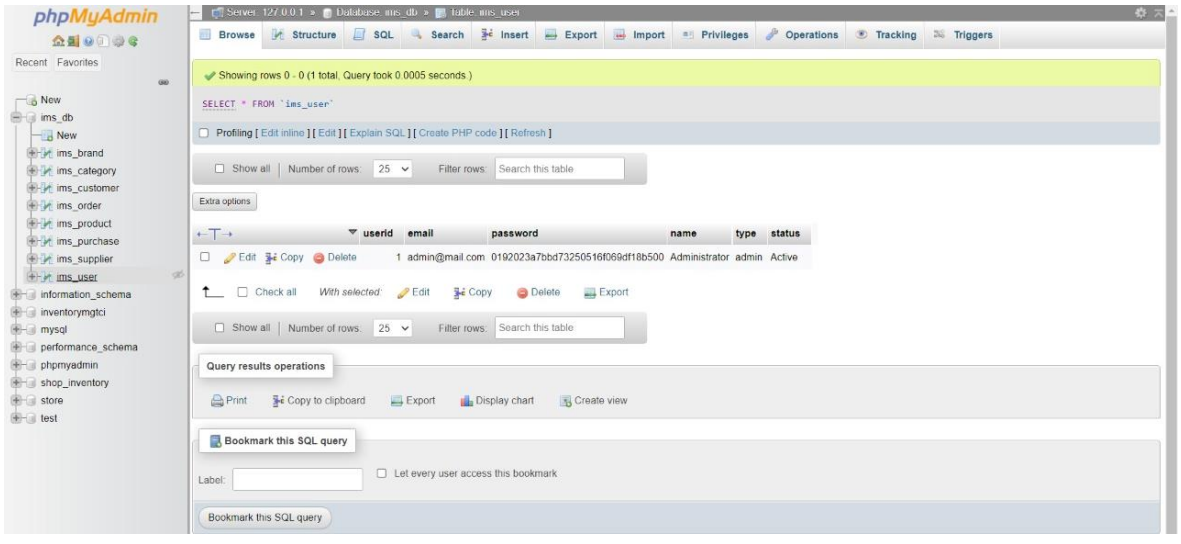


Fig : User list table

Chapter 7 : SCREENSHOTS

Screenshots show how the user end perceives the software

7.1 Login page:

This is where the user enters the login credentials

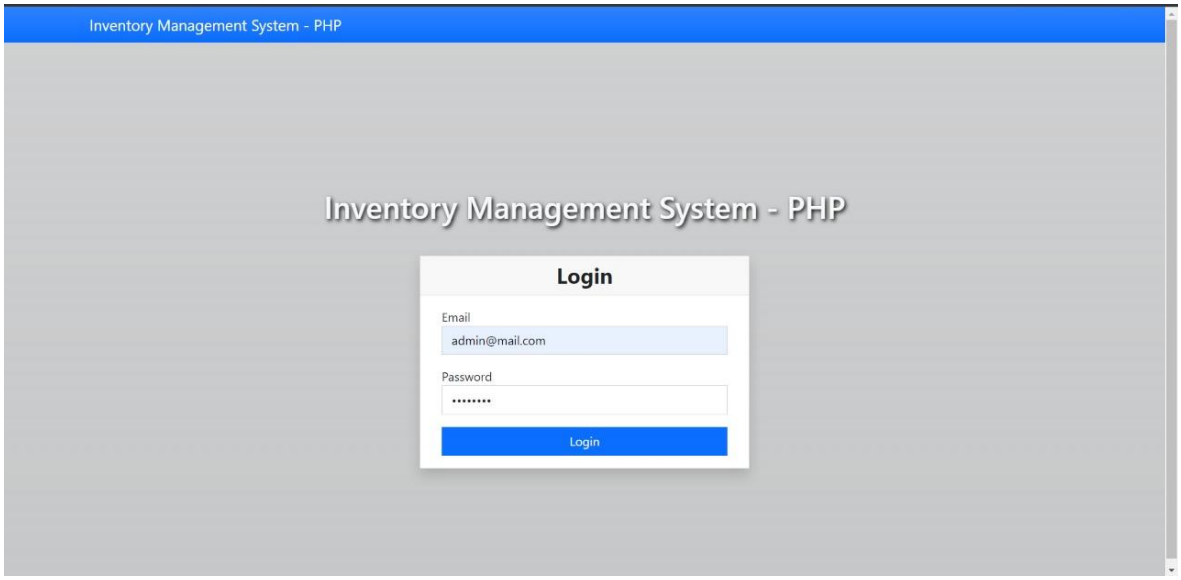


Fig : Login page

7.2Wrong login page:

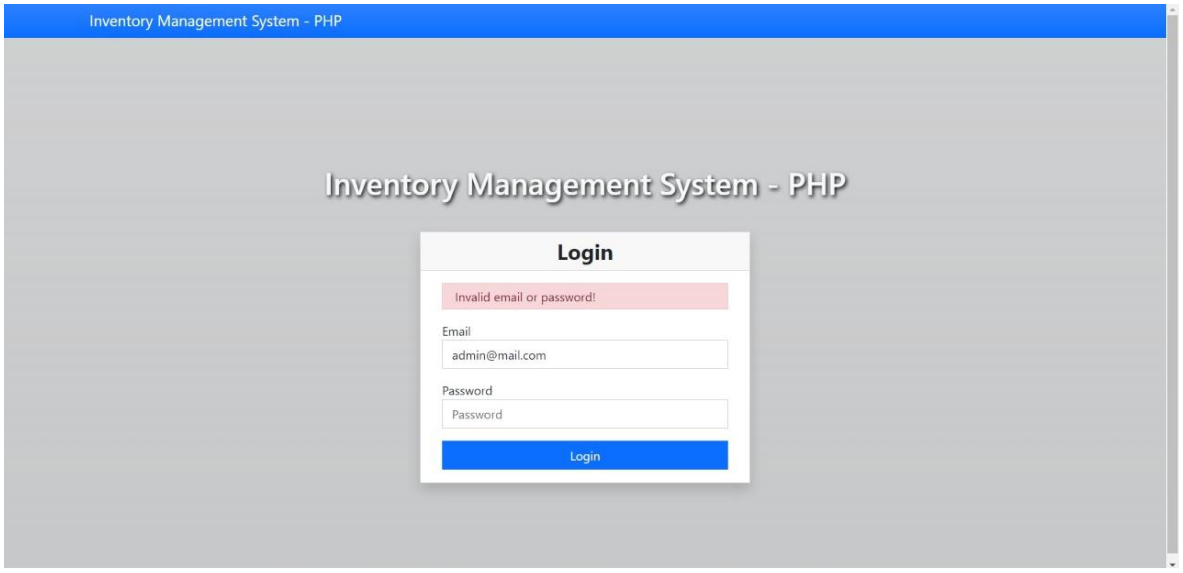


Fig : wrong login page

7.3 Home page:

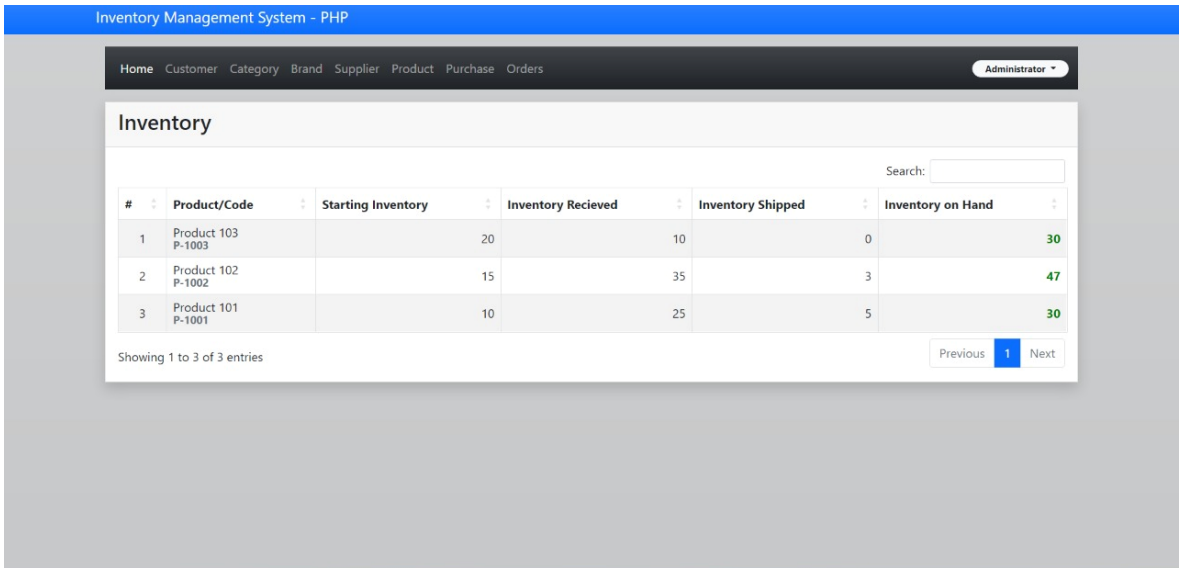


Fig : Home Page

7.4 Customer Page:

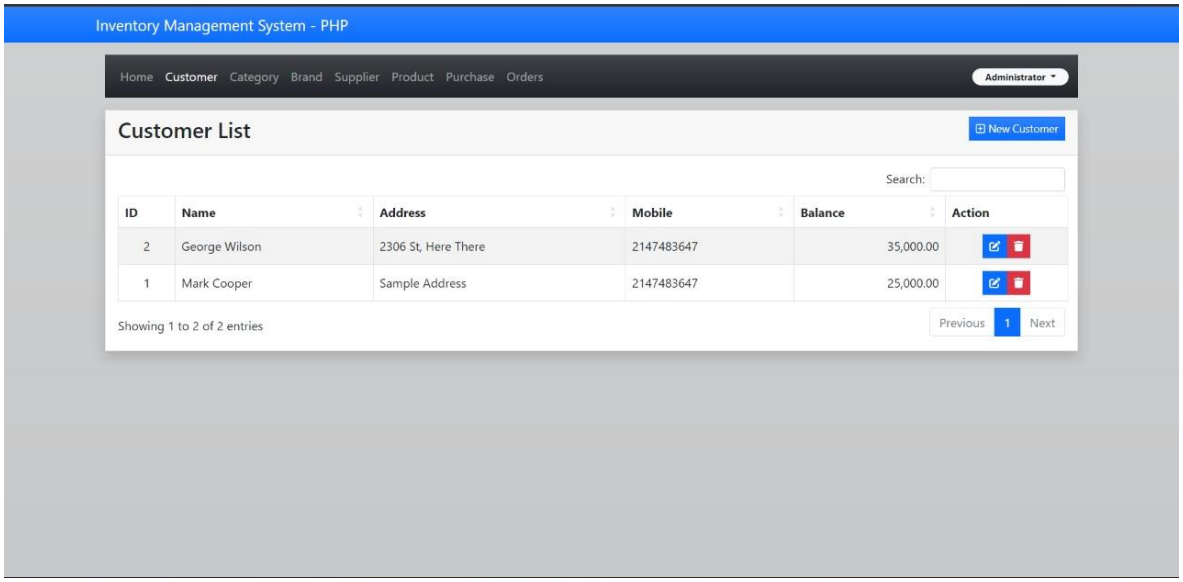


Fig : Customer Page

7.5 Category Page:

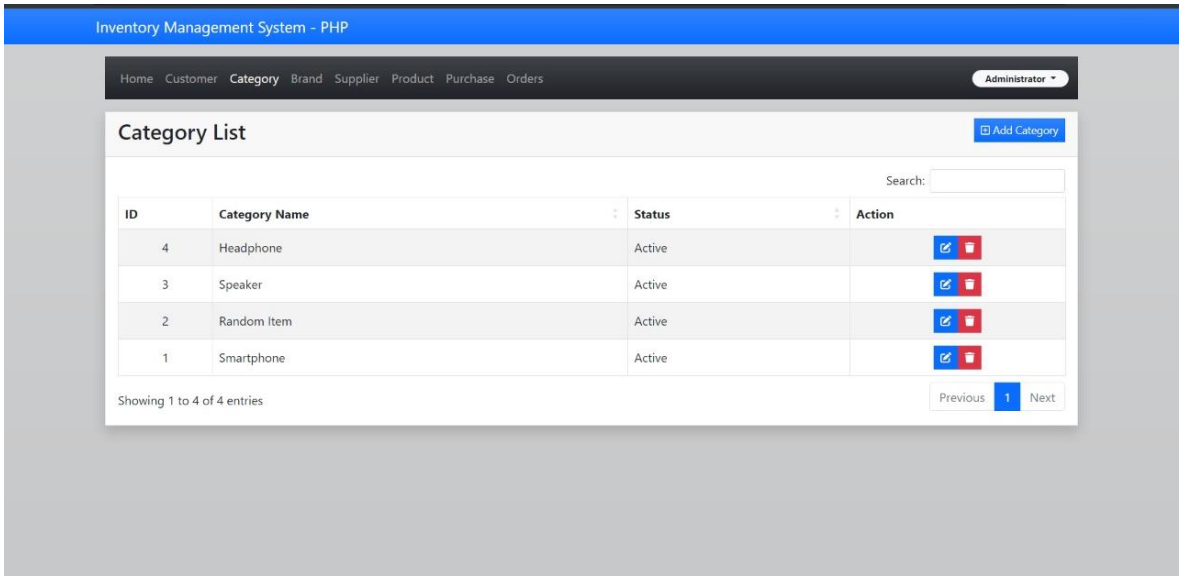


Fig : Category Page

7.6 Brand Page:

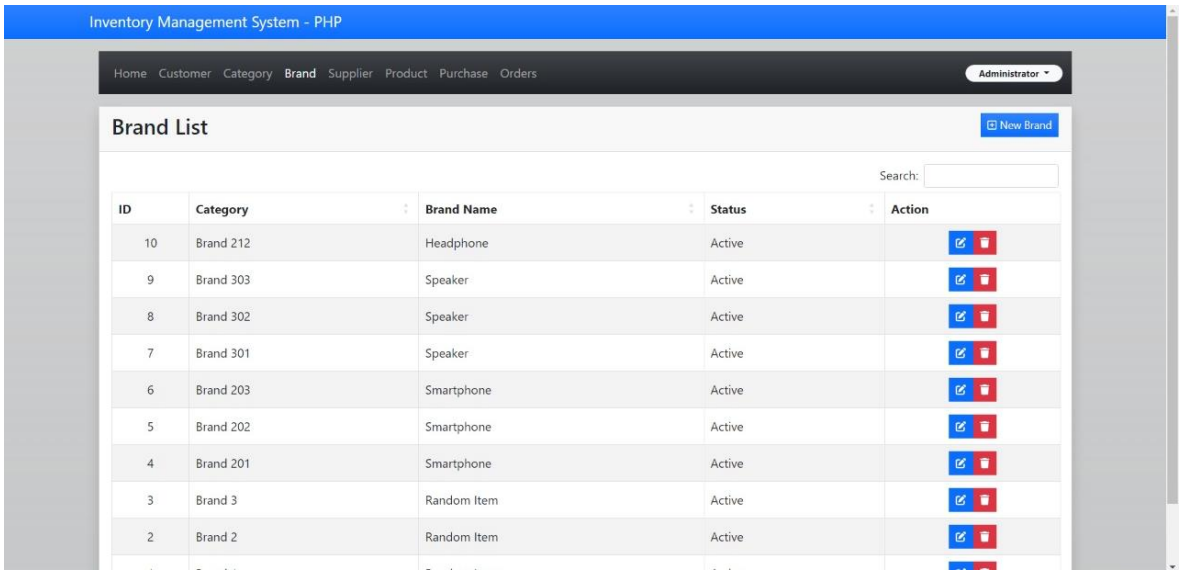


Fig : Brand Page

7.7 Supplier Page:

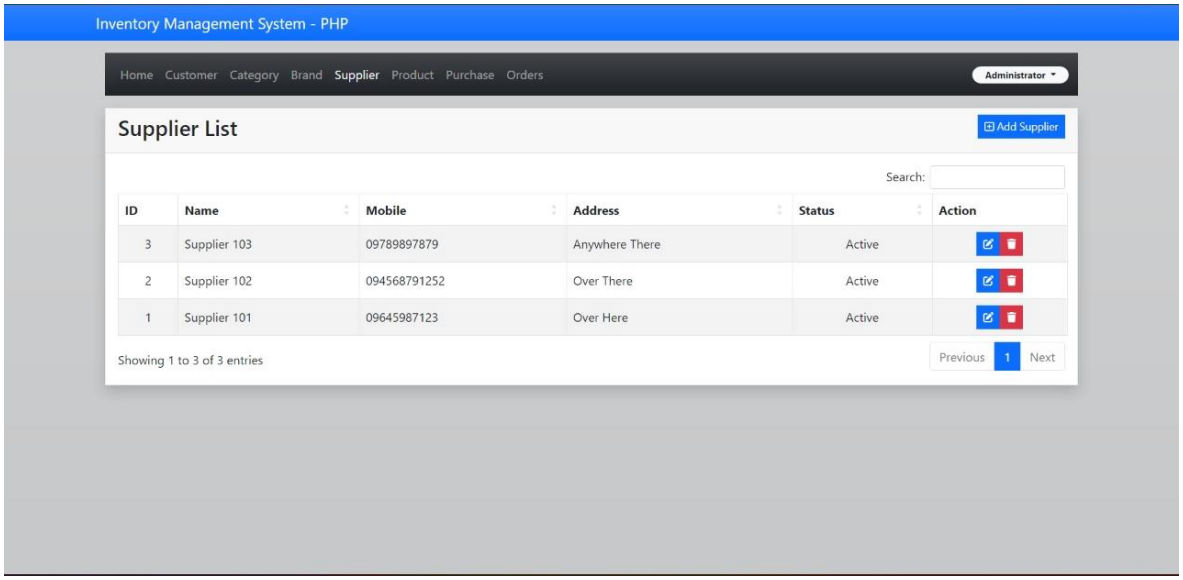


Fig : Supplier Page

7.8 Product Page:

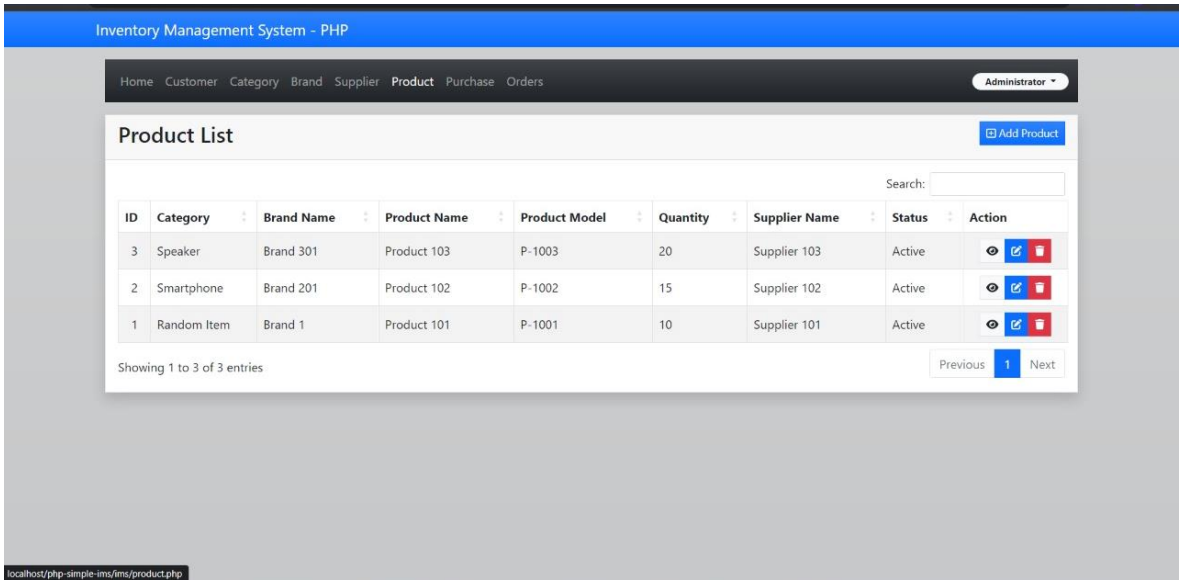


Fig: Product Page

7.9 Purchase page:

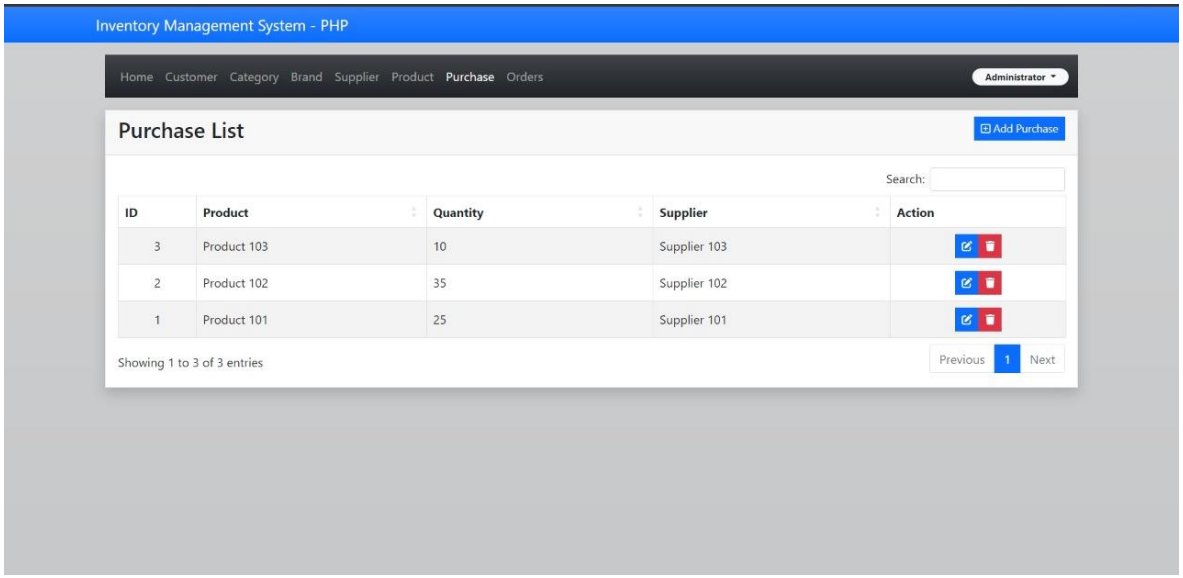


Fig : Purchase Page

7.10 Order page:

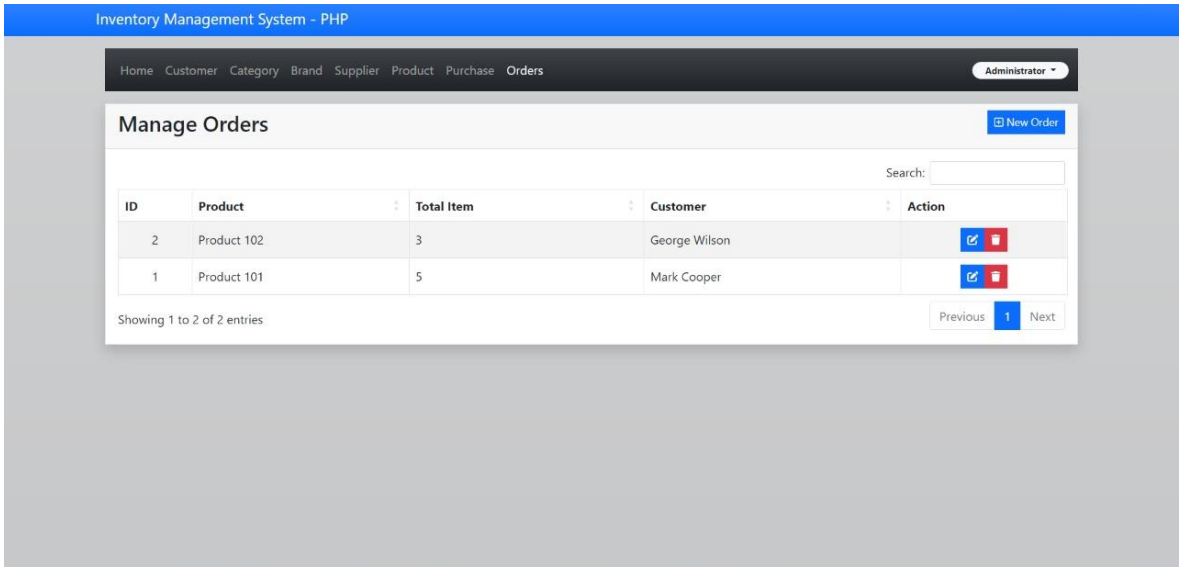


Fig : Order page

Chapter 8 : CONCLUSION

In this study, a computerized inventory system was developed and was also improved with the association rule. The system has been developed to get updates of an item in stock, to ensure proper record taking of products both to be sold and to be purchased, to know when to order for products, to make an order for products, and to generate reports from time to time when required to aid decision making process and progress of the store. The system would ensure proper inventory management and improve business performance. There will be a great improvement in inventory valuation management and control, which would lead to profit maximization. This work can still be improved by using more association rule techniques and algorithms.

Chapter 9 : BIBLIOGRAPHY

[1]. www.google.com

[2].www.youtube.com

[3] www.github.com