# **Project Report**

StackArea | An Inventory Management System

Micro Project | Team 2





# **Table of Contents**

	Project Overview	2
>	Requirements	2
>	Schema Diagram	3
	Project Walkthrough	4
	Conclusion	6
<b>&gt;</b>	Contributors	7



# **Project Overview**

Stack Area is an Inventory Management System developed using the technologies of HTML, CSS, & Javascript for supporting the Front-End and PHP & MySQL for supporting the Back-End. Stack Area provides a platform for users to keep records of stocks in inventory, providing utilities for adding and deleting the stocks.

With Stack Area, you can keep detailed tracks of your inventory that contains Product ID, Product Name, Category, Unit Price, and Seller details of each item in stock. In addition, Stack Area also provides you a utility to classify items in your inventory on the basis of the safe stock. All items that can potentially move out of stock can be listed on this platform with just a click. For a detailed explanation of the functioning of the project, refer to the walkthrough session.

## Requirements

Our requirements for the project are:

- This application should allow the user to manage the inventory in an effective and convenient way.
- Optimization of the inventory and the stock levels.
- Alerting the user when a particular product is below the safety stock level
- Help the user to find stock levels and plan accordingly.
- This application provides security and protection for the information provided by the user
- As the User itself can manage the application, additional labor costs can be reduced
- Users can classify the objects in the inventory according to their stock levels and identify the ones below the safety stock level.
- should allow its client to save time and resources.



# Schema Diagram



# **Schema**

Login(Login\_ID, user\_id, User\_Name, Password);

user<u>(user\_id</u>, User\_name, Number, Age)

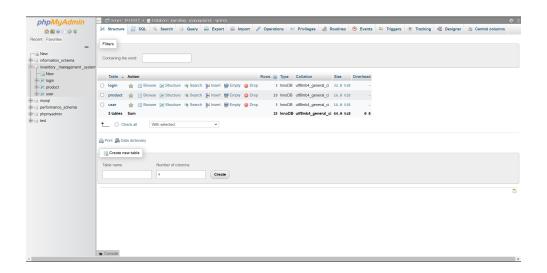
product(Product\_id, Product\_Name, Category, Seller, Quantity, Unit\_price)



# **Project Walkthrough**

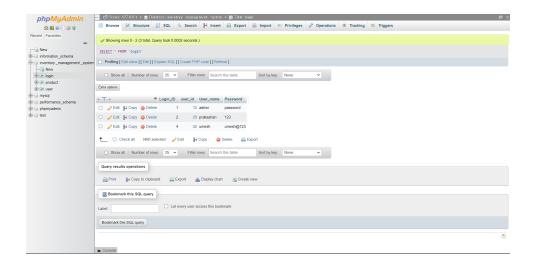
#### 1. Structure of the Database

As already mentioned, our project depends on a relational database to handle the data needs. To ensure the tracking of our users, and the stock we have divided our database into three relations, namely login, product, and user respectively. A visual representation of the database and the relations is provided below.



#### a) Login Table

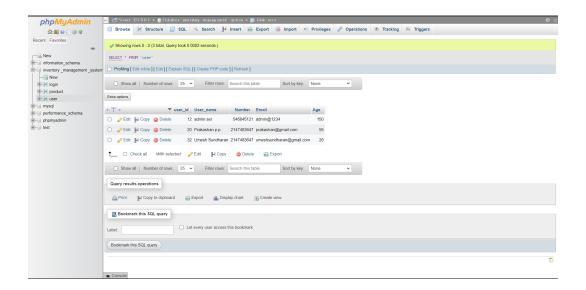
The login table is used to store the login credentials of the administrative users of this system. It is using this table that we authenticate the users of our systems. It holds the Login ID, User ID, Username, and Password in it.





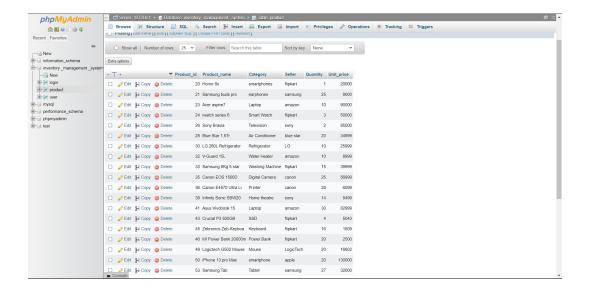
#### b) User Table

The user table is used to store the user details of our system. It holds the User ID, Username, Number, E-Mail, and Age in it.



#### c) Product Table

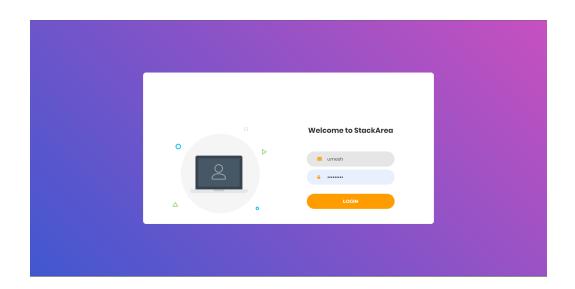
The product table is used to store the details of products in our inventory. It holds the Product ID, Product Name, Category, Seller, Quantity, and Unit Price in it.



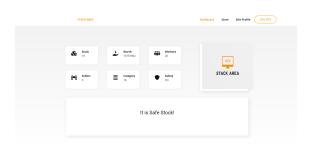


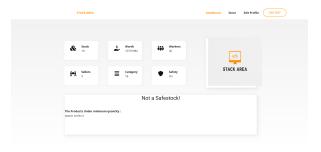
#### 2. Project Outlook

To utilize this system, the user needs to the first login to our portal. If the credentials provided by the user are authenticated to be true, the user will be redirected to the dashboard panel.



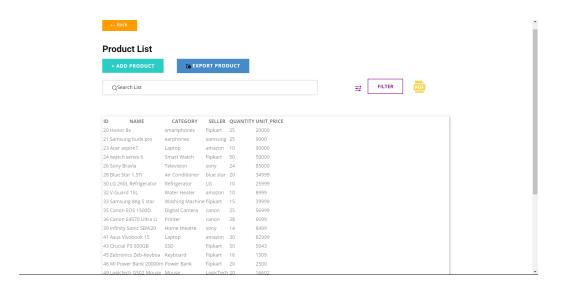
In the dashboard panel, the user will be able to see the current status of the inventory that he is managing. Here, the quantity of the stock, total price worth, number of product categories, number of sellers, and other useful details will be displayed. This will aid the user in analyzing the current updates in his/her system. Along with that, the dashboard will also provide updates on the safety stock level of the inventory. If any product falls beyond the safety stock level, it will be listed in the dashboard panel.



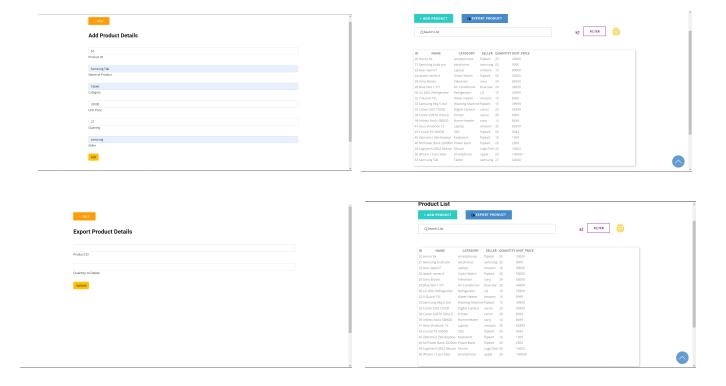


From the dashboard panel, the user can direct to the store panel using the navigation bar. In the store panel, a detailed list of all the items in the inventory will be displayed.



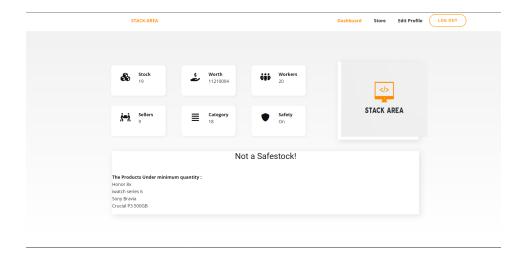


From the store panel, users can add or delete products. The add product utility will enable them to add new items to the inventory and the delete product utility will enable them to update the magnitude of the items in the inventory. These data will be reflected in the main store panel immediately.



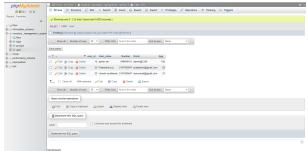


If any item falls below the safety stock level as the user updates the, it will be listed in the dashboard panel. This will allow the user to take the necessary steps to manage the inventory stock.



Along with that, our system also provides utility for the users to update their personal details provided in our system. The Update Profile utility in the navigation bar facilitates this. From there users can update their data and it will be reflected immediately in our database.





Dashboard Store LOG OUT



# **Project Repo**

For the codebase of this project, refer to the repository listed below: <a href="https://github.com/StackArea/stack-area.git">https://github.com/StackArea/stack-area.git</a>

### **Contributors**

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