

<https://github.com/vinothini143/SPS-10001-Inventory-Managment-System-for-Retailers.git>

## **INVENTORY MANAGEMENT SYSTEM FOR RETAILERS**

### **1 INTRODUCTION**

The Purpose of this project is to highlight the versatility and functionality of flask along with MySQL by developing an inventory management system which efficiently handles the addition, updating and deletion of products and an interface for product sales. The in-depth explanation of all the technologies and its integration has been described below.

#### **1.2 Purpose**

The Aim of this project is to showcase the versatility & pragmatics of utilizing Flask along with Remote MySQL to deliver a robust inventory management system. The Scope of the project is to deliver a system that will successfully accept the data from the user to insert, update, delete data from the Database.

### **2 LITERATURE SURVEY**

#### **2.1 Existing problem**

Businesses are quickly realising that inventory control is absolutely necessary to run an efficient business and make money in the process. Especially in today's competitive marketplace, business owners simply can't afford to have money

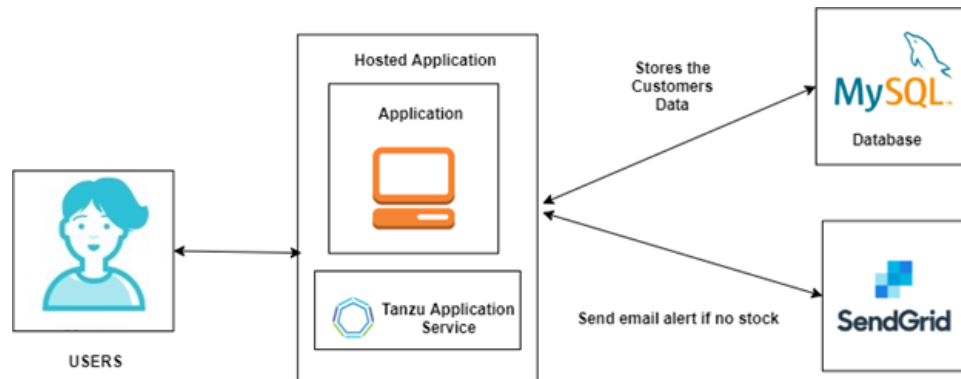
#### **2.2 Proposed solution**

For this system we shall be using the following technologies:

- Flask is a light weight micro framework that is used to build web applications
- MySQL database allows remote hosts (servers) to access MYSQL databases on your account

### **3 THEORETICAL ANALYSIS**

### 3.1 Block diagram Diagrammatic overview of the project.



### 3.2 Hardware / Software

Hardware requirements: Working PC, internet connection

Software requirements: HTML, Bootstrap, MySQL, Python-Flask, Cloud Foundry, Tanzu Application Service, REST API's

### Project Description:

## 4 EXPERIMENTAL INVESTIGATIONS

1. The user can register with their details in order to login in the webapp.
2. The users can Login in the webapp using their details.
3. User/Retailer can Add their products by entering Product name, Description and QTY.
4. User can Export the list of products and QTY by clicking Export report button.
5. User can view their available products in the stock.
6. User can add their location.
7. User can manage their product movements.
8. The user can logout from the webapp

## 5 ADVANTAGES & DISADVANTAGES

Advantages:

1. Better Inventory Accuracy.

2. Reduced risk of overselling.
3. Cost Savings.
4. Avoiding stockouts and Excess stock

Disadvantage:

1. Expensive for small businesses.
2. Risk of system crashes.
3. Malicious Hacks.

## 6 CONCLUSION

Retail inventory management is the process of ensuring you carry merchandise that shoppers want, with neither too little nor too much on hand. By managing inventory, retailers meet customer demand without running out of stock or carrying excess supply.

In practice, effective retail inventory management results in lower costs and a better understanding of sales patterns. Retail inventory management tools and methods give retailers more information with which to run their businesses. Applications have been developed to help retailers to track and manage stocks related to their own products. The System will ask retailers to create their account by providing essential details. Retailers can access their accounts by logging to the application.

Once retailers successfully login to the application they can update their inventory details, also users will be able to add new stock by submitting essential details related to the stock. They can view details of the current inventory. The System will automatically send an email alert to the retailers if there is no stock found in their account. So that they can order new stock.

## 7 FUTURE SCOPE

Enhancements that can be made in the future:

1. Future work can be done to add a sales page and payments page to manage stocks and product sells simultaneously.
2. The customers can buy products from sales page with secured payment gateway in order to avoid fraudulent and scams.

## 8 BIBLIOGRAPHY

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