

INVENTORY MANAGEMENT SYSTEM

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INTRODUCTION

- Purpose/Goals: The goal of the inventory management system is to keep track of the stock availability, it's additional requirements and the list of customers and suppliers.
- Background Information: Inventory management is the practice overseeing and controlling of the ordering, storage and the supply of goods that a company needs to keep track on.
- Web based Inventory Management is a convenient , secure and and efficient way of keeping track of large scale inventory .

METHODOLOGY

- Technology used: Python With Django Web framework
- Database Creation : SQLite
- Front- End coding: HTML
CSS
JavaScript
- Back- End coding: Python

- The backend programming was done using the python programming.
- For creation of database SQLite has been used and Django web development module provided an interface between the back-end and front-end programming.
- The major challenge faced was to work with the non familiar Django module and use its extensive functionalities for the successful execution of the project.

RESULTS

The web application contains the following features/modules:

- Login portal
- Admin Panel
- Manage Inventory
- Search Stocks
- Sales Management
- Purchase Management
- Additional Tax Details
- Manage Suppliers
- Supplier Profile
- View Recent Sales and Purchase



Inventory Management System

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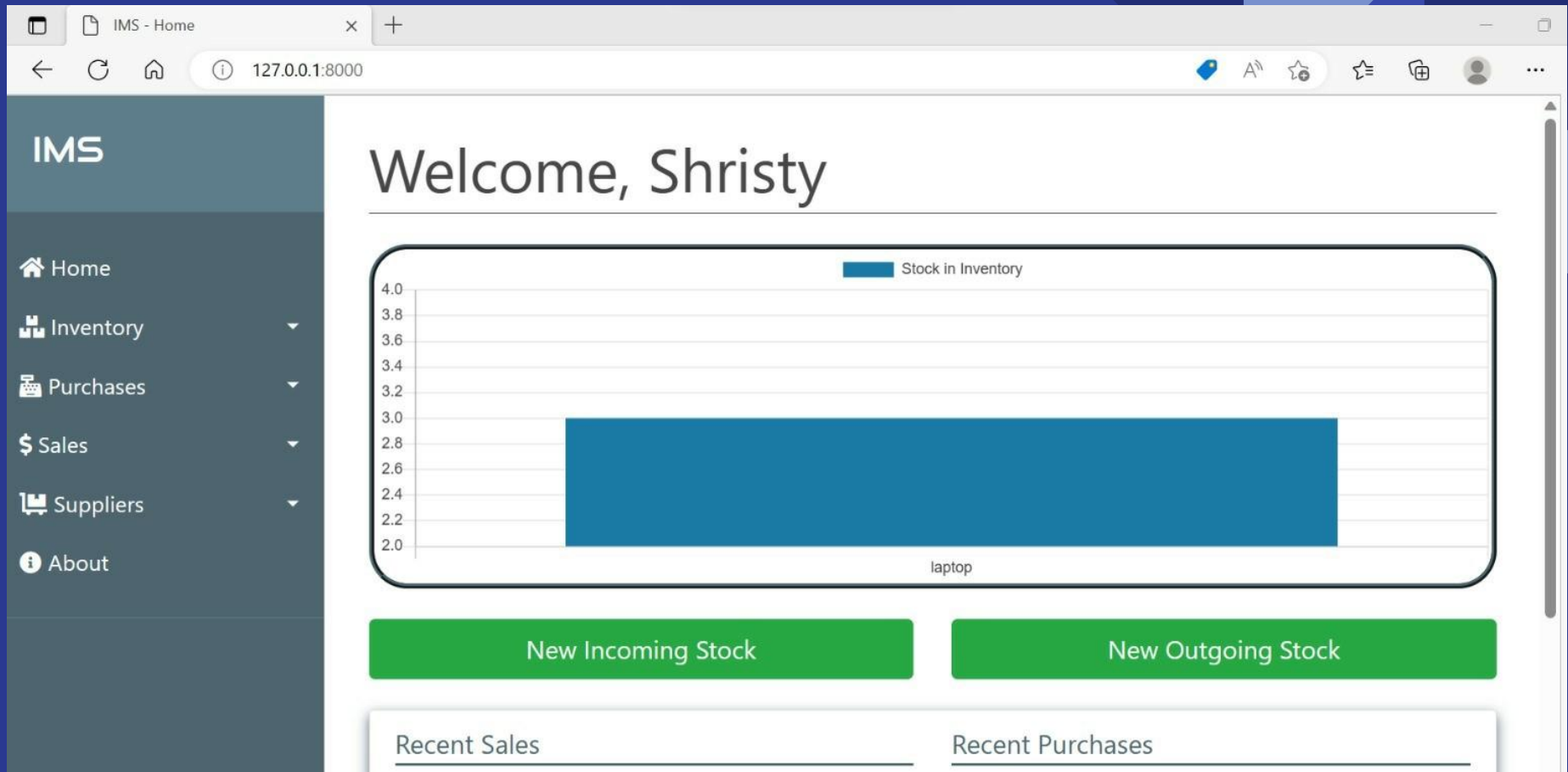
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Log In



IMS

Home

Inventory

Purchases

Sales

Suppliers

Add New Supplier

Suppliers List

About

Suppliers List

Add New Supplier

Name	Contact	GSTIN No	Actions
ishaan	1111111111	123456789012345	<div>Edit Details</div> <div>Delete Supplier</div>



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IMS - About

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An Inventory Management System

| About |

IMS is a simple inventory management software created for the requirements of a company. The software is capable of keeping track of incoming and outgoing stock with a dynamically rendered bill. Each supplier is provided with a profile where they can see the history of their transactions with the company.

| Features |

- Interactive Chart to display current available stock
- Stock details like current available stock are maintained
- Incoming transactions are done through purchases
- Outgoing transactions are done through sales
- Every transaction performed through the software is recorded
- Bill is dynamically rendered and can be printed
- Separate profiles are maintained for suppliers

| Developers |

Ishaan Arora, Shristy Singh & Stuti Mehta

DISCUSSION AND ANALYSIS

- The above resultant outputs indicate that the objective of the inventory management system is fulfilled.
- There exists detailed information of the available stock, new stock ,supplier details and customer details.
- Managing the incoming and outgoing of goods is automated and is studied using the well defined graphs.
- The developed web based system is much more effective ,easy to use and less prone to errors than the primitive manual inventory management systems.

CONCLUSION

Inventory management is a very complex but essential part of the supply chain. With automated inventory management systems, you avoid human error, save time and improve accuracy. Your team also reduces the need for manual work and repetitive tasks. An inventory management system helps your business run more efficiently and cost-effectively.

Inventory Management system can be used in arms and ammunitions supply management, stock management for online shopping sites and in various small and large scale retail stores.

RECOMMENDATIONS

- In Future , a automate removal can be done regarding slow - moving and obsolete inventory.
- An improvised more secure version of inventory management can be used for managing the details of arms and ammunitions and other defense equipments.
- Further, the system can be extended to allow to suppliers and customers in remote locations with extended benefits.

REFERENCES

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- [https://www.ijisrt.com/assets/upload/files/IJISRT19OCT1632_\(1\).pdf](https://www.ijisrt.com/assets/upload/files/IJISRT19OCT1632_(1).pdf)

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THANK YOU