

INVENTORY MANAGEMENT SYSTEM

GROUP MEMBERS:

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ABSTRACT

The Inventory Management System is a software program made to make it easier and faster to handle inventory in places like shops, factories, and warehouses. The main goal of the system is to keep track of stock levels, manage product details, follow the movement of items, and create real-time reports.

PROBLEM STATEMENT

BUSSINESS FACES CHALLENGES LIKE:

1

Inaccurate stock records due to manual entry errors.

2

Overstocking or understocking of inventory.

3

Time-consuming and inefficient manual processes.

4

Lack of real-time updates on stock levels.

Our Goal:

To create a simple and efficient system that helps businesses track and manage their inventory accurately and quickly.

OBJECTIVES

1

To automate inventory tracking and reduce manual work.

2

To maintain accurate stock records in real time.

3

To minimize stock shortages and overstock problems.

4

To generate useful reports for better business decisions.

TOOLS & TECHNOLOGIES USED

1

FRONTEND : HTML , CSS

2

BACKEND : PYTHON , JAVA

3

FRONTEND used to develop the backend logic and implement the core functionality of the inventory system.

4

BACKEND used to create the user interface, ensuring it is visually appealing and easy to navigate for users.

SYSTEM ARCHITECTURE

- 1 User Interface (UI): The frontend is built using HTML, CSS, and JavaScript to provide a user-friendly interface.
- 2 The backend framework processes business logic, communicates with the database, and sends dynamic content to the client.
- 3 The web server processes requests from the client and serves them to the backend server.
- 4 BACKEND used to create the user interface, ensuring it is visually appealing and easy to navigate for users.

WORKING MODEL

1

Login and Registration.

2

Add/Edit Products.

3

Stock-In/Stock-Out.

4

Inventory Reports.

FEATURES

1

Multi-Device Access.

2

Notifications and Email Alerts
send automatically.

3

Data Backup and Recovery.

4

Search and Filter Functionality.