



**K.R. MANGALAM UNIVERSITY**

**THE COMPLETE WORLD OF EDUCATION**

School of Engineering and Technology

# InStock

Lakshita Kalra, Ananya Sharma, Saieena Negi, Shikha

# INTRODUCTION

**InStock is a web application that helps users track their goods and inventory.**

- It shows available stock, tracks items coming in and out, and alerts users when supplies are low.
- This is useful for small shops or vendors to manage products easily and avoid running out of items.
- The project aims to reduce errors, improve efficiency, and enhance stock visibility for businesses.

# METHODOLOGY

## 1.REQUIREMENT ANALYSIS

Identify the needs of the user and defining key features.

## 3.DEVELOPMENT

Building user interface using HTML , CSS , JavaScript and implementing logic using Python.

## 2.SYSTEM DESIGN

Planning the system structure and defining tables for products , stock levels and creating wireframes for easy usability.

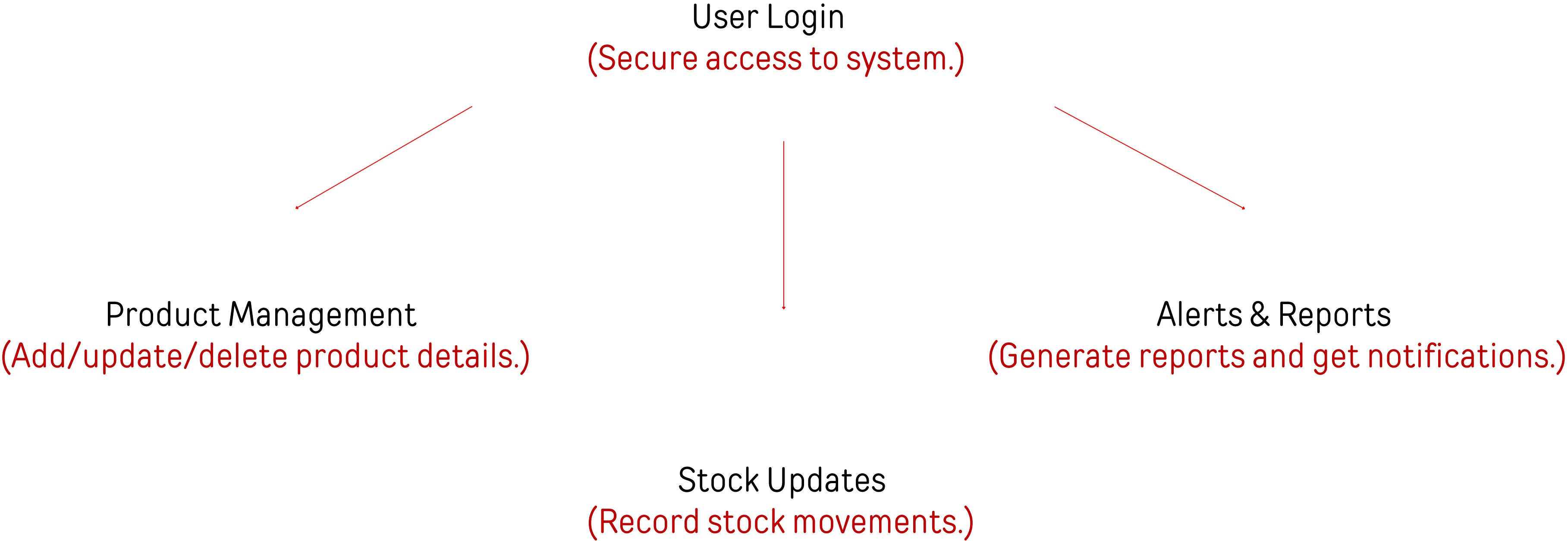
## 4.IMPLEMENTATION & TESTING

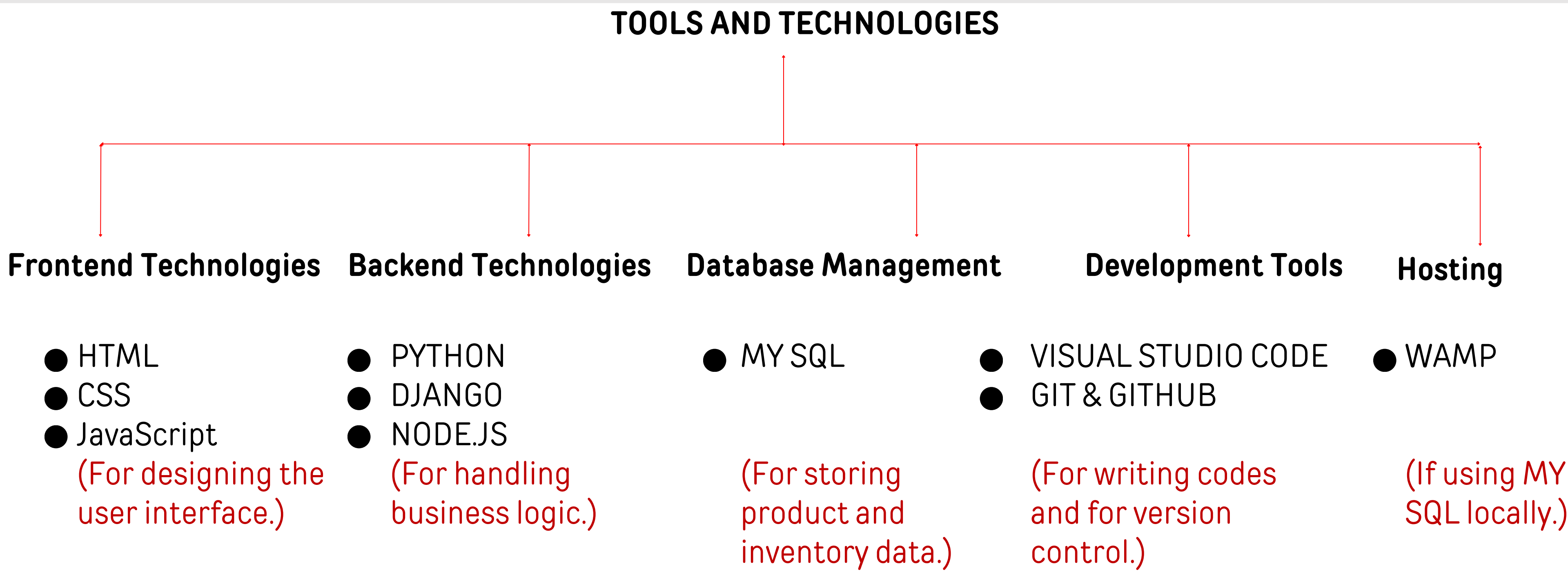
Testing each module and ensuring smooth interaction between frontend,backend and database.

## 5.DEPLOYMENT & MAINTENANCE

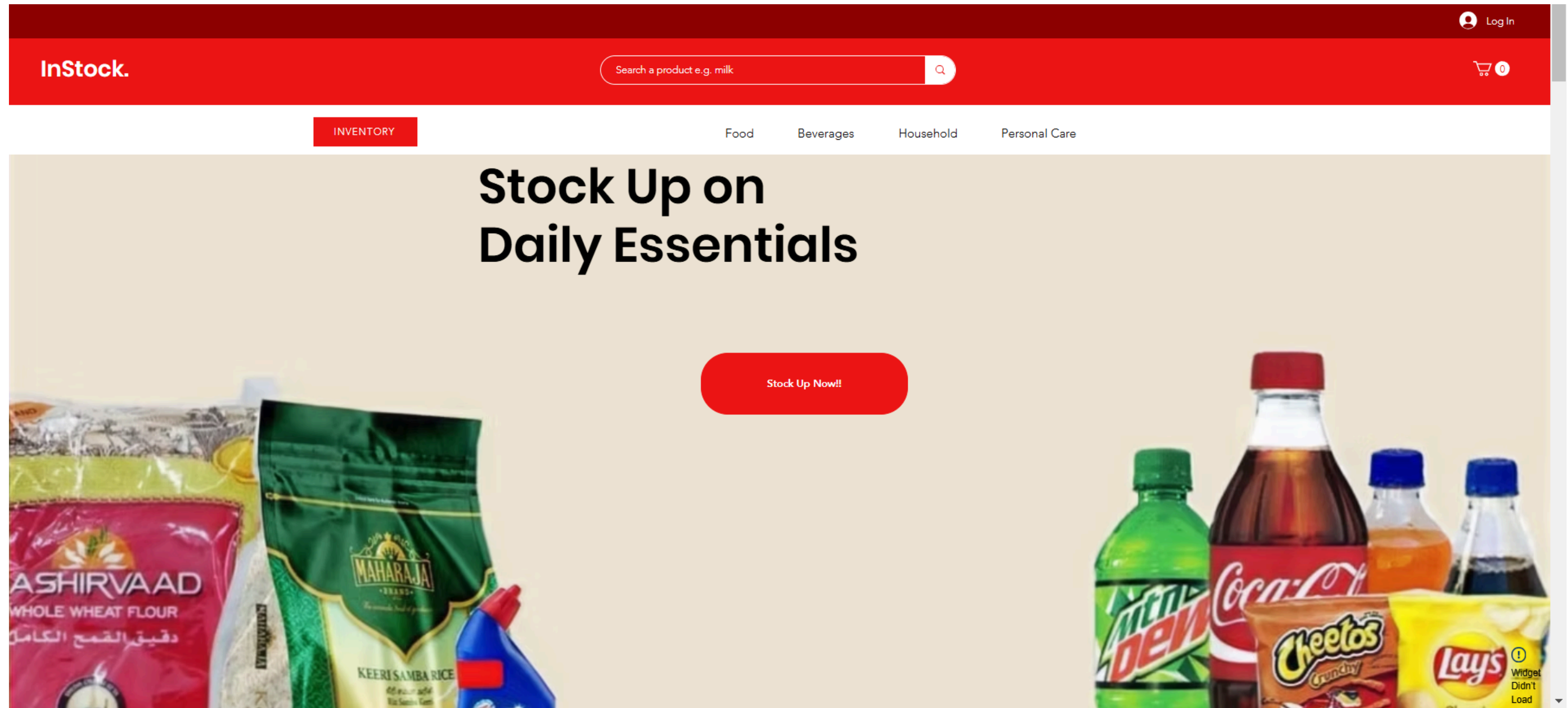
Deploy the system on a local server and providing documentation and user training and regular updates.

WORKFLOW





# GLIMPSE OF WEB APPLICATION PAGE



# PROBLEM STATEMENT

- Some web application also charge a price for the use of the application.
- It also lacks individual customization of the application provided.
- Some beginners may struggle with the advance feature of the application.

# OBJECTIVES

- **To develop** a web-based inventory management system that allows users to track and manage their goods efficiently.
- **To automate** stock monitoring with real-time updates and alerts to prevent shortages and overstocking.
- **To optimize** inventory control by providing data-driven insights for better decision-making.
- **To enhance** operational efficiency by reducing manual errors and streamlining stock management processes.



# COMPARISON ANALYSIS

- InFlow Inventory is a comprehensive inventory management solution designed to assist businesses in efficiently tracking and managing their stock levels, sales, and orders. It caters to a wide range of industries, including wholesale, manufacturing, and field services.
- InFlow Inventory is versatile and supports various business operations but there is a problem in it, that is made on the basis of large scale industries , so we have to also look to small scale shops ,vendors etc.

## EXPECTED OUTCOMES

- It wouldn't charge the user to use the application.
- As this application is for small scale based user it can be customized by the preference of the user.
- They will also provided with a manual to help them understand how to use the application easily.

# APPLICATIONS

- SMALL AND MEDIUM ENTERPRISES – Simplifies inventory tracking for small businesses.
- RETAIL STORES – Manages stock replenishment and sales report.
- SUPERMARKETS – Helps in demand forecasting and restocking.
- VEGETABLE VENDORS – Helps in preventing wastage by monitoring inventory levels.
- DAIRY AND MILK SHOPS – Manages stock of milk , curd , cheese , and other dairy products which ensures timely restocking to avoid spoilage

# CHALLENGES AND LIMITATIONS

- Limited knowledge on the languages used while making this web applications.
- Designing a proper database schema.
- Choosing the right technologies (Frontend, Backend, Database).
- Due to coding error the web application may not work properly.

# BENEFITS

- **Stock Tracking**
  - Helps users monitor available goods and inventory levels in real time.
- **Inward & Outward Management**
  - Keeps track of items added to or removed from stock.
- **Low Stock Alerts**
  - Notifies users when stock is running low to prevent shortages.
- **Business Efficiency**
  - Useful for shops, warehouses, and e-commerce businesses to manage inventory smoothly.
- **Easy Management**
  - Provides a simple and organized way to handle products, reducing errors and saving time.

# CONCLUSION

- InStock is a lightweight and efficient inventory management solution.
- It simplifies stock tracking and enhances business operations.
- Future improvements will make it more scalable and intelligent.
- A stock tracking project involves creating a system to monitor inventory in real-time.
- Key features include inventory monitoring, real-time updates, reporting, and alerts for low stock.
- It typically uses a database and a user-friendly interface, with benefits like increased efficiency, cost savings, and better stock control.

## REFERENCES

- (Zoho inventory)

[https://www.zoho.com/in/inventory/?utm\\_source=softwareworld.co&utm\\_medium=referral](https://www.zoho.com/in/inventory/?utm_source=softwareworld.co&utm_medium=referral)

- (inflow)

[https://www.inflowinventory.com/?utm\\_source=softwareworld.co&utm\\_medium=referral](https://www.inflowinventory.com/?utm_source=softwareworld.co&utm_medium=referral)

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Questions?