



SKP ENGINEERING COLLEGE

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DEPARTMENT OF INFORMATION TECHNOLOGY

IT3811 - Project work

Zeroth Review

DATE: 26-02-2025

AUTOMATING INVENTORY MANAGEMENT

NMNT ID : NMNTSTD5122016

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GUIDE

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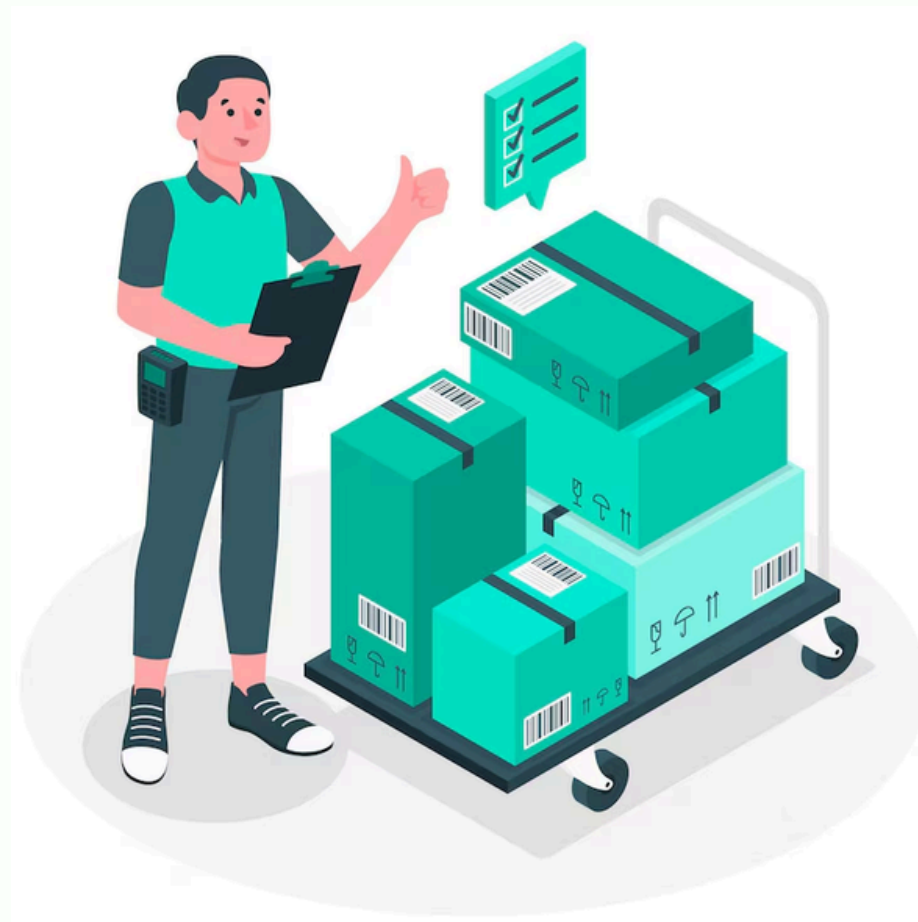
Project Title & Relevance

- The title clearly reflects the core objective of the project.
- It highlights the focus on improving warehouse operations.
- Relevant for businesses that manage stock and fulfill orders manually.
- Directly connected to automation and real-time management.
- Short, clear, and easy to understand.



Introduction

- In many small warehouses, inventory is still managed manually.
- This leads to errors, delays, and a lack of real-time data.
- Our project solves this by developing a web-based system.



- It automates tasks like stock tracking, order processing, and alert notifications.
- The website is built with Django and has an easy-to-use dashboard for staff and admin.

Literature Review

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Research Focus

Many research works discuss inventory automation, but mostly for large-scale industries.

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Cost Barriers

Existing solutions are costly and complex for small businesses.

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Technology Insights

Studies show that real-time tracking and QR-based systems reduce human errors.

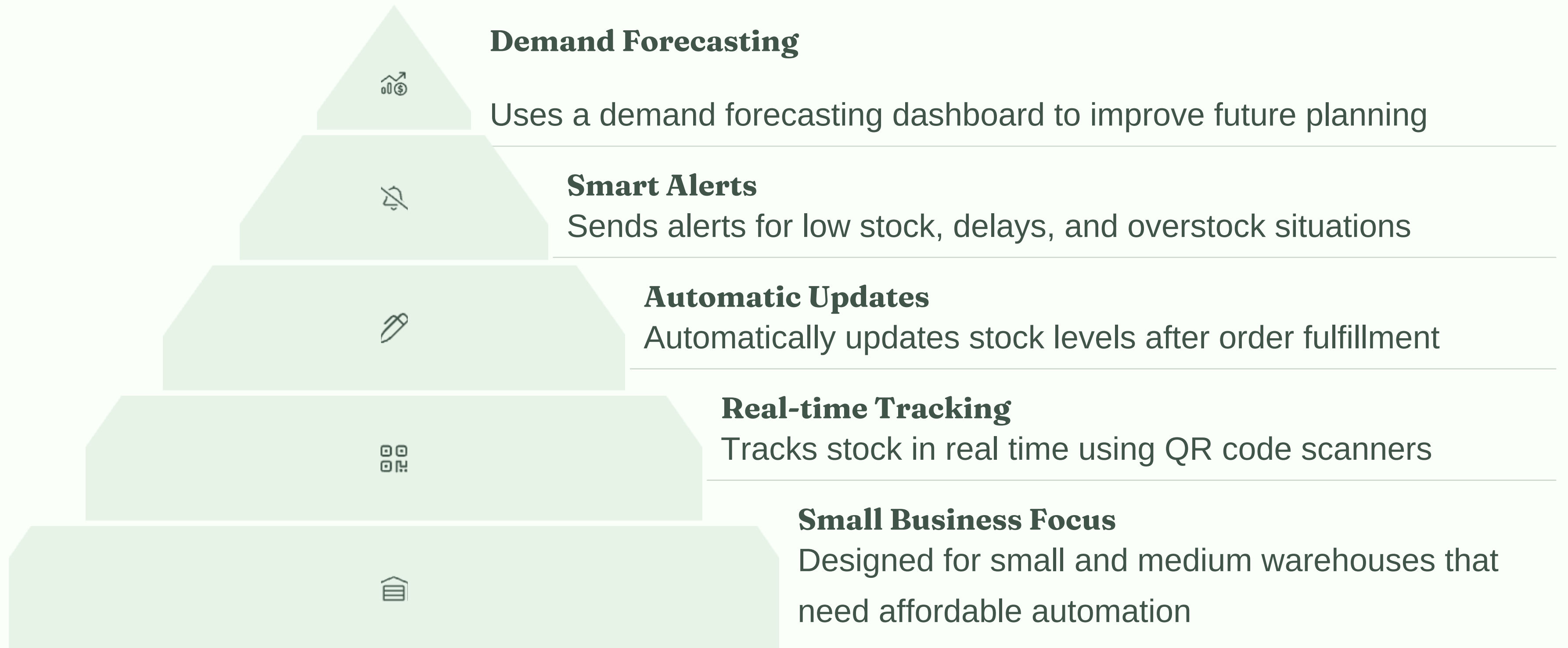
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Our Approach

- Our project takes inspiration from existing works and customizes it for small warehouses.
- We focus on combining cost-effective tools (like QR codes and web dashboards) to simplify warehouse tasks.



Contribution to the Field



Problem Statement



Real-time stock tracking



Automated order fulfillment



Minimizing human error

Project Objectives:

Website Development

Create a simple and responsive website for warehouse staff and admins.

QR Integration

Automate stock updates using QR scanning.

Real-time Notifications

Provide real-time notifications and status tracking.

Data Analysis

Forecast demand and generate data-based suggestions.

Conclusion

Problem Solution

Our project provides a clear solution to a real-world problem faced by small warehouses.

Scalability

The system is built with open-source tools and is ready to scale.



Task Automation

It automates major tasks like tracking, fulfillment, and reporting.

Error Reduction

Reduces human errors and improves speed, accuracy, and productivity.

Overall, the project is practical, efficient, and solves the defined problem effectively.

