

Inventory Management System

User Manual

EEC 521 – Software Engineering Project

Submitted By

Jaydeep Ravaliya (2873999)

Kevin Panchal (2871507)

Jaykumar Mistry (2875386)

Table of Contents

- 1. Introduction
- 2. System Requirements
- 3. Installation
- 4. Getting Started
 - a. 4.1 Product Management
 - b. 4.2 Stock Management
 - c. 4.3 Reporting
- 5. Best Practices
- 6. Troubleshooting
- 7. Feedback & Suggestions

1. Introduction

Welcome to the **Inventory Management System (IMS)** User Manual. This guide provides a comprehensive overview of the system designed to streamline inventory operations for businesses of all sizes. The IMS is a web-based platform enabling users to efficiently manage products, stock levels, suppliers, and inventory reports.

With its user-friendly interface and robust features, IMS automates critical inventory tasks, reduces human errors, and ensures real-time data accuracy. Key features include:

- Adding, editing, and deleting products.
- Managing stock levels and generating low-stock alerts.
- Categorizing products for better organization.
- Maintaining supplier details for seamless reordering.
- Generating insightful reports for data-driven decision-making.

Whether you're a business administrator or an employee managing inventory, this manual will guide you through installation, system requirements, usage scenarios, and best practices. It is structured to ensure a smooth onboarding experience and efficient usage of the system's features.

2. System Requirements

• **Supported Browsers:** Chrome, Firefox, Safari

• Operating Systems: Windows, macOS, Linux

Database: SQLite3Framework: Django

• Internet: Required for real-time updates

3. Installation

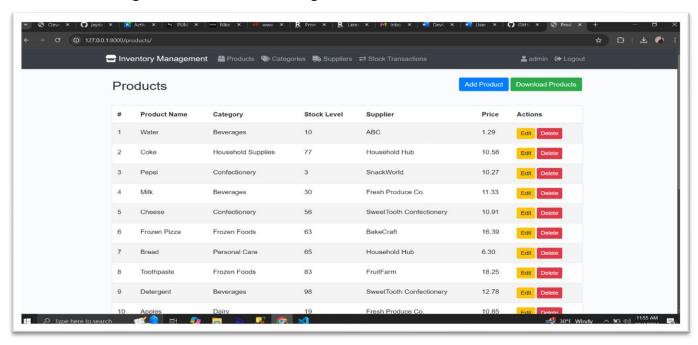
- 1. Download the IMS installation package.
- 2. Extract the package and navigate to the installer.
- 3. Run the setup.exe file (Windows) or the corresponding installer for macOS/Linux.
- 4. Follow the on-screen instructions to complete the installation.
- 5. Open the IMS application through the browser at localhost: 8000 or the specified deployment URL.

4. Getting Started

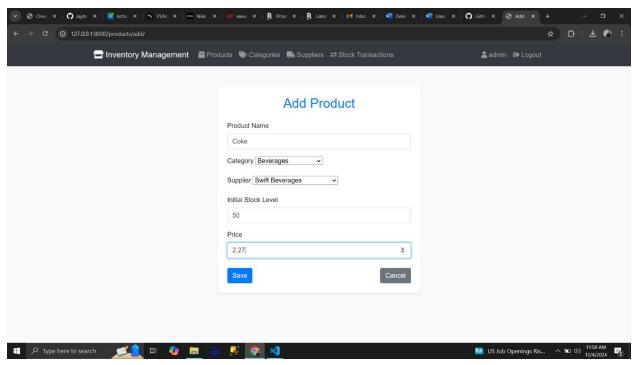
4.1 Product Management

Adding a Product:

o Navigate to the "Product Management" screen.



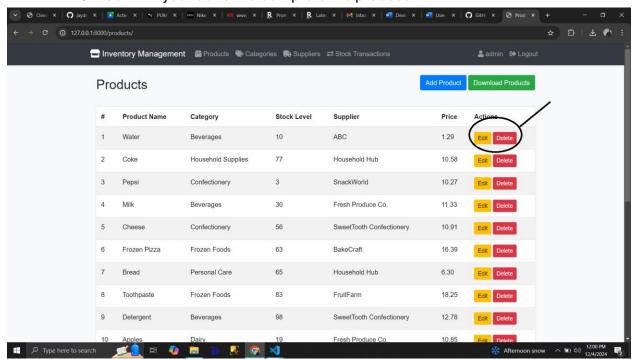
 Click "Add Product" and fill out details like name, category, stock level, supplier, and price.



Save the product to update the inventory.

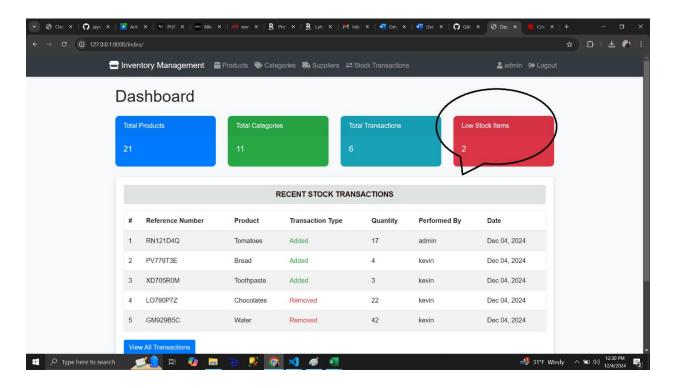
• Editing/Deleting a Product:

- Select a product from the list.
- o Choose "Edit" or "Delete" as needed.
- o Confirm your action to complete the process.



• Low Stock Alerts:

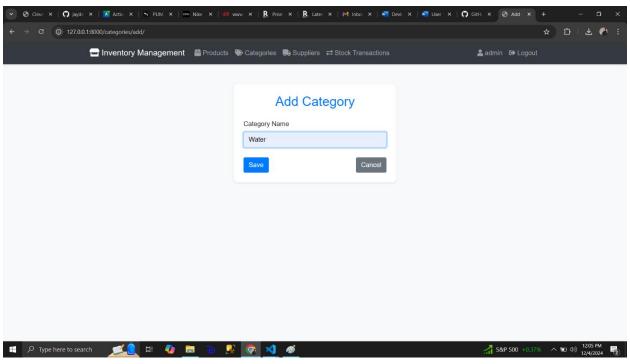
- o Alerts will appear on the dashboard for products below the threshold.
- o Restock or reorder as necessary.



4.2 Category Management

Add Category:

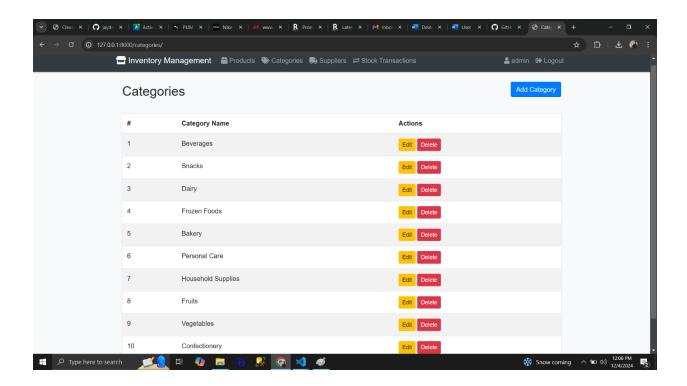
Open the "Category Management" section.



- o Select a product and input the new stock level.
- o Click "Update" to save changes.

Editing/Deleting a Category:

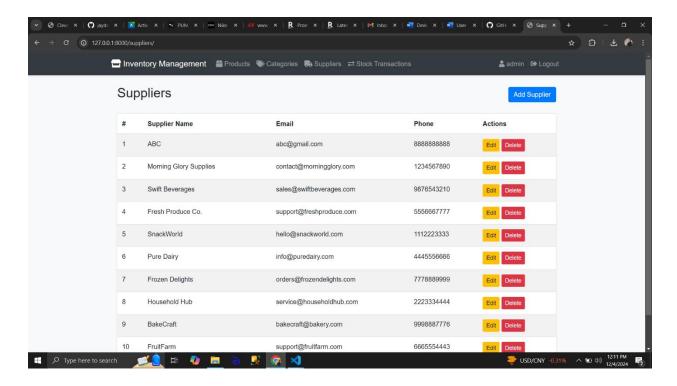
- Select a product from the list.
- o Choose "Edit" or "Delete" as needed.
- o Confirm your action to complete the process.



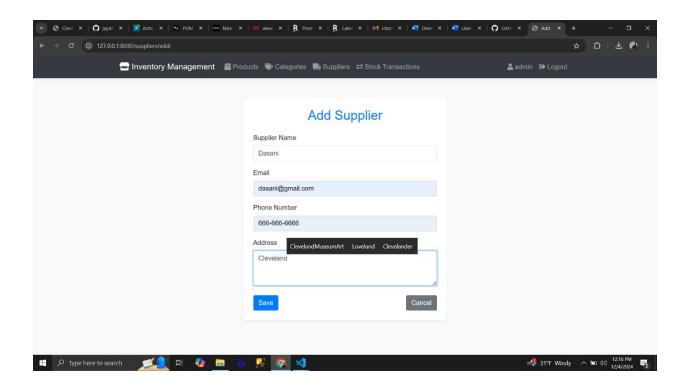
4.3 Suppliers

Adding a Supplier:

Navigate to the "Supplier Management" screen.



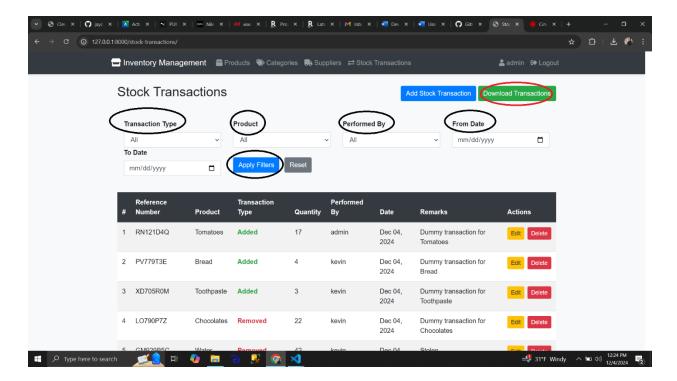
 Add a Supplier and fill out details like name, email, phone number and address.



4.3 Report Generation

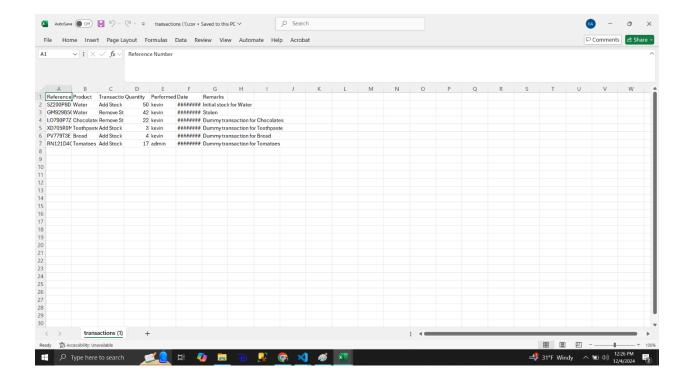
• Generating Reports:

- o Go to the "Stock Transaction" section.
- o Select filters (e.g., date range, category).
- o Click "Generate Report" to view and download results.



Viewing Reports:

- o Access saved reports in the "Reports Archive/Download section."
- Use filters to find specific reports.



5. Best Practices

- Regularly update stock levels to maintain accurate records.
- Use clear, consistent naming for products and categories.
- Back up the database weekly to prevent data loss.

6. Troubleshooting

- Common Issues:
 - Error: Unable to update stock levels.
 - Check if the product exists and has valid inputs.
 - o Issue: Email notifications not sent.
 - Verify email server configuration in the system settings.
- Steps to Resolve:
 - Restart the application if issues persist.
 - o Contact the support team for unresolved problems.

7. Feedback & Suggestions

We value your feedback! If you have any suggestions for improving the Inventory
Management System or encounter any issues while using the application, please
don't hesitate to reach out to us at j.ravaliya@vikes.csuohio.edu or
k.panchal60@vikes.csuohio.edu or j.mistry@vikes.csuohio.edu. Your input helps
us enhance the functionality and usability of the Inventory Management System for
all users.