

BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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Project ID : 21

Project Name : INVENTORY SYSTEM

1.INTRODUCTION:

1.1. Purpose:

The purpose of this document is to present a detailed description of the project Inventory system. portal. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

1.2. Scope of Project :

This software site will help the use to maintain their purchase record securely, checking the availability of stock before its sale with real time update and this system will provide a comprehensive analytical dashboard for the products in their INVENTORY.

The admin has the ability to add or remove the items from their inventory and also to add new supplier or removing the supplier for their inventory as well as the customer details. This system will also update the daily sale record for the User.

2. SYSTEM OVERVIEW:

2.1.Users :

1. Staff :

They have the ability to add the customer details, update their bill amount and the amount received from them, They can monitor the Availability of the stocks and check the suppliers status and update those to the admin.

2.Admin :

Admin has the all the access that was given to staff and additionally he can also add or remove the new suppliers for their shop this access will be also given to the admin. Admin can provide their staff to use the site will limited access mentioned above and he has the access to remove or add new staffs for their inventory.

2.2.Features :

1.Login :

Admin and staffs can login with their username and password given to them.

2.Home page :

This page contains the information about the total revenue received on that particular day and also the total products that was sold on that particular day.

3.Inventory:

This page will contains the information about the Products name, Stock In & Out of that product, Availability of that product.

4.Sales:

This page contains the information about the Purchase details of the customer , Adding new sales and their billing process as well as the bill copy of their purchase.

5.Receiving:

This page contains the information about the products received from the suppliers and also adding the new products received from the supplier as well as its billing process.

6.Category List:

This page contains the Category of products that are available at their inventory and also we can add the new category of products here.

7.Products List:

This page contains the products list that are available at their inventory and also we can add the new products here under the available category.

8.Supplier List:

This page contains the suppliers list with their Id and here we can also new suppliers to supply the goods for their inventory.

9.User :

This page contains the Staff and Admin details as well as here the admin can add new staff Id for accessing the site.

3.1 Functional Requirements :

1.Purchase Entry Portal :

- Provide a form for entering details of purchases including item name, quantity, price and supplier information

2. Sales Entry Portal :

- Provide a form for entering details of sales including item name, quantity sold, price and customer information
- Check for availability of stock before allowing sales entry.

3.Availability of Stocks :

- Display a dashboard or page where users can view the current availability of each item in the inventory.
- Implement real-time updates to reflect changes in stock levels.

4.Remainder System:

- Set up automated reminders for low stock levels, pending orders, and overdue payments.
- Reminders should be sent via email or push notifications based on user preferences.

3.2Non Functional Requirements :

1.Usability:

- User-friendly interface with intuitive navigation and clear instructions.
- Consistent layout and design across all pages.

2.Performance:

- System should respond quickly to user requests.
- Load times for pages and reports should be minimized.

3.Security:

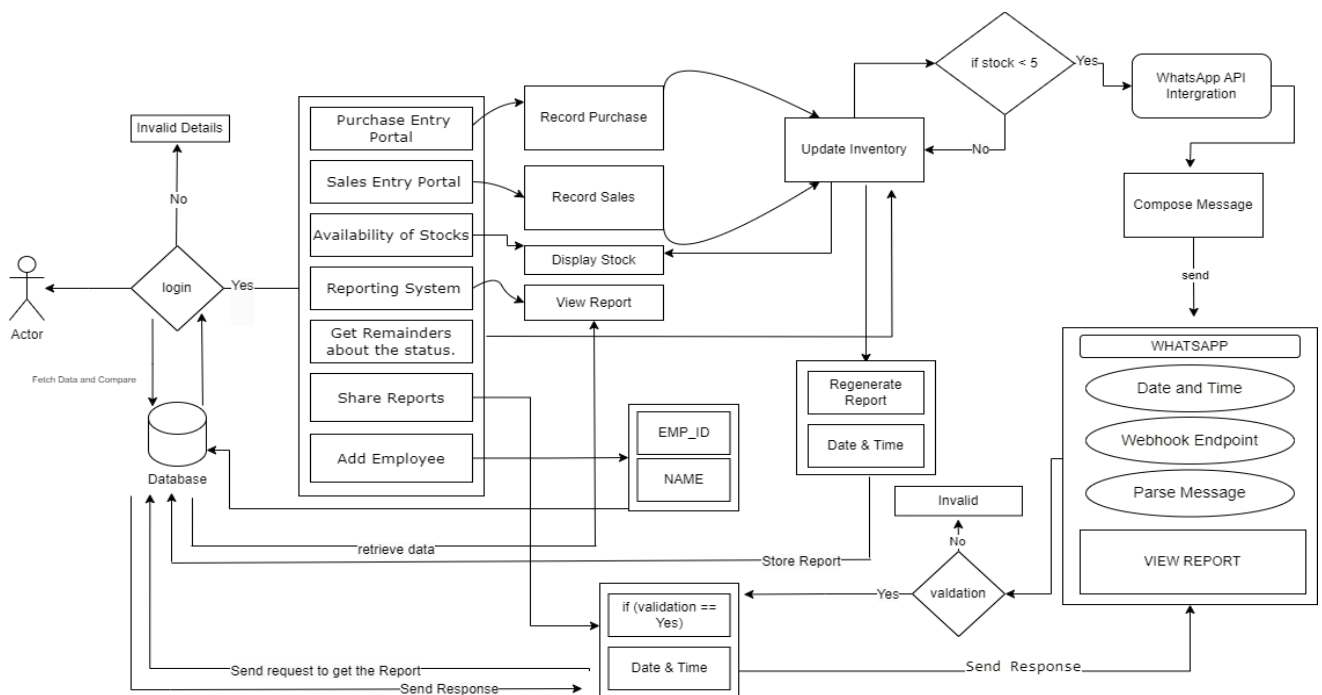
- Secure use authentication and authorized mechanisms.
- Protect sensitive data such as user credentials and financial information.

4.Reliability:

- Minimize downtime and ensure system availability.
- Regular backups of data to prevent data loss.

5.Scalability:

- Design the system to accommodate future growth in data and user traffic.
- Ensure that performance remains consistent as number of users and data volume increases.
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Front End	JS FRAMEWORK
Back End	NODE JS
Database	MANGO DB
API	REST API