**THE PANTRY WEBAPP**

**Introduction**

**Purpose**:

This web application helps the pantry to maintain and manage products available in the Pantry inventory. This also helps customers to choose and reserve up to 15 products online through website.

**Scope**:

The scope of the project is as follows:

To build an application through which customers can create new account and link it to pantry database.

The customers shall log in to their account and reserve up to 15 products in the cart to order online.

The Pantry/Admin will create a dashboard of products for clients.

The Customer can add, view, update and delete the products added to the cart.

The Admin/Manager can manage the inventory of products.

The Customer can collect the products at the time when they reserved the time slot.

**Software Interfaces**

Frontend: React

Backend: Spring (JAVA)

Server: MY SQL Database hosted in Linux environment

**REQUIREMENTS**

**Functional Requirement**

**User Registration:**

The system must have provision to add new customers and they register for a new account.

Input:

The Users shall fill out a new user registration form to create an account.

Process:

* The user shall enter the username.
* The user shall enter the password.
* The user must set a password and confirm the password.
* The user must authenticate the email address by adding OTP to the popup window.

Output:

The new customer registration form is filled out and submitted.

**Login**:

The system must have a provision so that user should be able to login to their account.

Input:

The customer shall enter the email address and password to login into their account.

Process:

* The customer shall enter an email address.
* The customer shall enter a password.

Output:

The customer will be authenticated and will be logged in to their account.

**Product Dashboard Creation (Admin)**:

The system must have provision to show product dashboard to customers to place the order.

Input:

The admin will be given privileges to add, delete, update and view products shown in dashboard to the customers.

Process:

* The admin will login with super user credentials.
* The admin can manage the pantry inventory.

Output:

Dashboard will be generated with updated products to the end users.

**Product Cart Creation**:

The system must have provision for customers to add, delete, view, and update the cart products.

Input:

The users shall manage the products in cart.

Process:

* The users shall click the add to cart button.
* The users can proceed to checkout with the items added to the cart.
* The users shall click cart icon to update or delete products.

Output:

The products added to the cart can be viewed on the checkout page.

**Reserve Order**:

The System must have the provision so that the customer can reserve the pantry products by placing the order online.

Input:

The Customer can schedule the pickup of items added to the cart by reserving items for the time.

The user can select the time from combo box to reserve the order.

Output:

Reservation will be confirmed, and reservation ID will be given to the user.

**Non-Functional Requirements:**

**Security:**

Only the customer with login credentials can get authorised into the website and only the user with role admin can create a product and add products to the dashboard.

**Performance**:

The web application’s load time should not be more than 5 seconds.

**Usability:**

The web application’s interface had to be user-friendly and easy to use.

**Reliability:**

The user should access the product without failure.

**Availability:**

The user can add products on the web app throughout the week at any time when they are available.

In case of unplanned system downtime all features will be available within a few minutes.

**Environmental:**

The admin or the manager ca track the availability of the items and the products ordered by the customer at any time of the day.