# 2025SpringSoftDevProject

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# Screenshots, UML Diagram, Requirements and other assignments in assignment documents folder.

## User Stories grouped by key features:

#### Customer-Facing Features

##### 1. Restaurant Information and Menu

1. **As a customer,** I want to view the restaurantâ€™s contact information, operating hours, and location so I can easily reach or visit the restaurant.
2. **As a customer,** I want to browse the menu with detailed descriptions and images of dishes so I can decide what to order.
3. **As a customer,** I want to add items to cart and sucessfully place an order.

##### 2. Reservation System

1. **As a customer,** I want to check table availability for a specific date and time so I can plan my visit accordingly.
2. **As a customer,** I want to book a table online and receive a confirmation so I can avoid waiting when I arrive.

##### 3. Catering System

1. **As a customer,** I want to book a catering service for an event of my choosing with menu options available.
2. **As a customer,** I want to recieve a confirmation so I can ensure the catering service is set.

#### Staff and Manager Features

##### 1. Menu and Inventory Management

1. **As a manager,** I want to update the menu with new items or prices so the menu is always accurate.
2. **As a manager,** I want to track inventory levels and receive alerts for low-stock items so I can prevent shortages.

##### 2. Scheduling and Employment Management

1. **As a staff member,** I want to view my work schedule so I know when I am expected to work.
2. **As a manager,** I want to assign shifts and notify staff of changes so I can ensure proper staffing at all times.

##### 3. Table Management

1. **As a staff member,** I want to view current table assignments and reservations so I can efficiently manage seating.
2. **As a manager,** I want to adjust table layouts and availability in real-time to accommodate varying customer demands.

#### Admin Features

##### 1. Staff and Sale Management

1. **As an admin,** I want to manage user roles and permissions (e.g., customer, staff, manager) so each user has access to the appropriate features.

# Impact of Project

1. Create an overall clean and functional UI/UX for users to navigate a restaurant website.
2. Take client requirements generated by ChatGPT and implement as many as we can using the time given.
3. Work as a team in a Scrum like developemnt cycle to work on seperate pieces of the website and then implement them all together.

# Project Architecture.

### Web App

1. We will be using what we learned in WebApps. HTML, CSS and JavaScript to build the Web App
2. **Tools/Software we will use: JS, host on Render**

### Database

1. needed for accounts (User, Employee, Supervisor)
2. menu items
3. **Tools/Software we will use: MongoDB**

# Getting started.

1. Open a terminal to where you would like to save the project
2. input the following commands

### Cloning The repo

git clone https://github.com/2025SpringSoftwareDev/2025SpringSoftDevProject.git

# Navigate to the project folder

cd 2025SpringSoftDevProject

1. install [node.js](https://nodejs.org/en/download).
2. troubleshoot any issues that arise with installation.
3. use command npm install to install all dependences from package.json
4. use command npm start to host the webapp locally
5. use a browser access the web app at http://localhost:3000/
6. use ctrl + c to kill the process in the terminal

### Branches

1. We can use branches to develop features then merge the branch to main once the feature is completed.
2. This allows us to reduce merge conflicts and avoid convoluting the main branch's comment history.

#### Creating a new branch.

git checkout -b <branch-name>

#### Changing a branch.

git checkout <branch-name>

#### Creating a pull request.

1. Ensure you pushed and tested all changes
2. Go to the GitHub repo page and click "Pull request"
3. Select your branch as the source and the main branch as the destination
4. Fill out the info and submit the pull request.
5. Since we don't have any live features or customers you can just accept the pull request yourself without peer review. If you break anything o well there is no collateral to be had.