FOOD ORDERING PLATFORM

-Sakshi Jaiswal

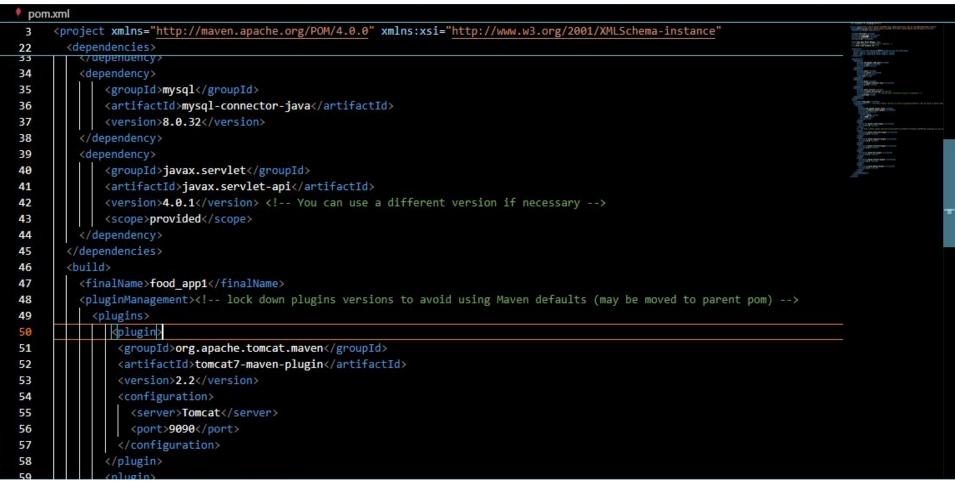
SOFTWARE REQUIREMENTS:

- Java Development Kit (JDK): Version 8 or above.
- Apache Maven: Version 3.x.
- MySQL: Version 5.x or above (with JDBC driver).
- Visual Studio Code: Latest version.
- Tomcat Server: Version 9.x or compatible.
- Git: Optional, for version control.

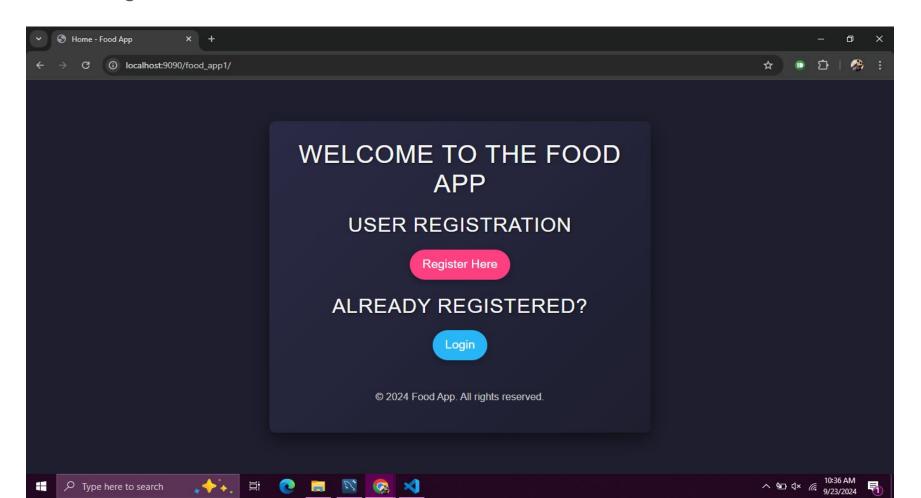
Requirements:

- JAVA HOME PATH (JDK8 and above)
- MAVEN HOME PATH
- set up database schema
- Servlet api, mysqlconnector dependency, apache tomcat server plugin : pom.xml

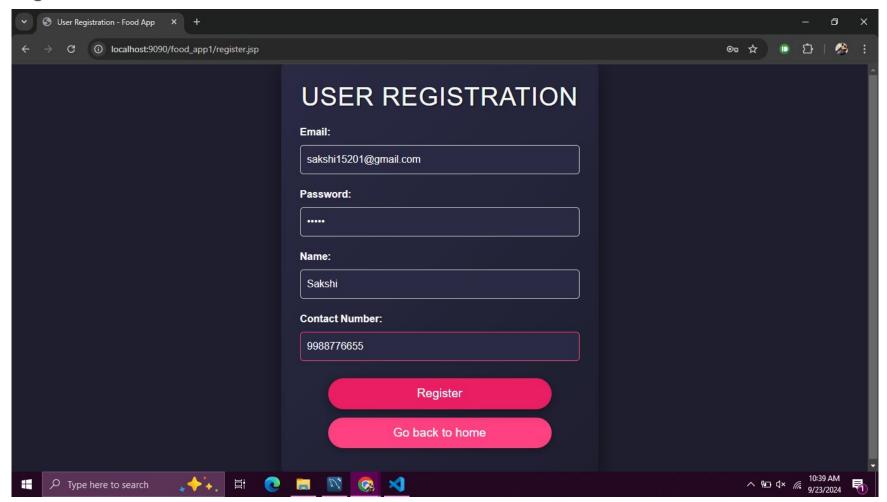
Required Dependencies and plugins present in 'pom.xml' file



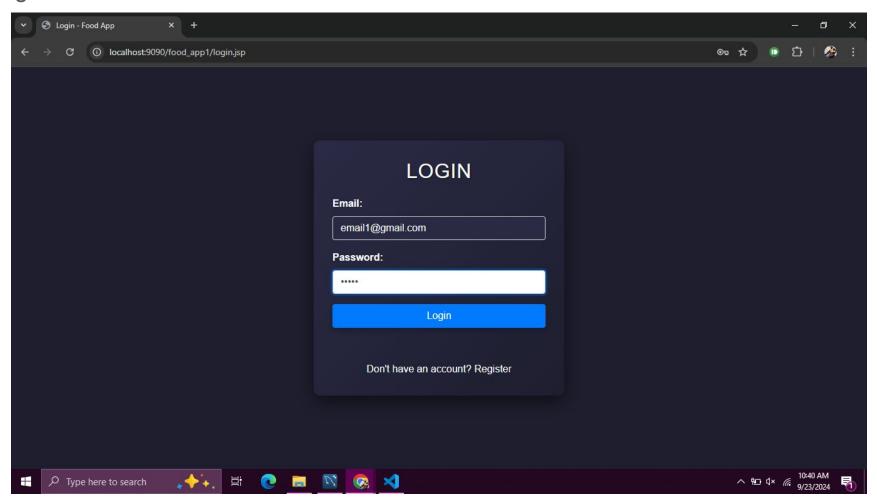
Index Page



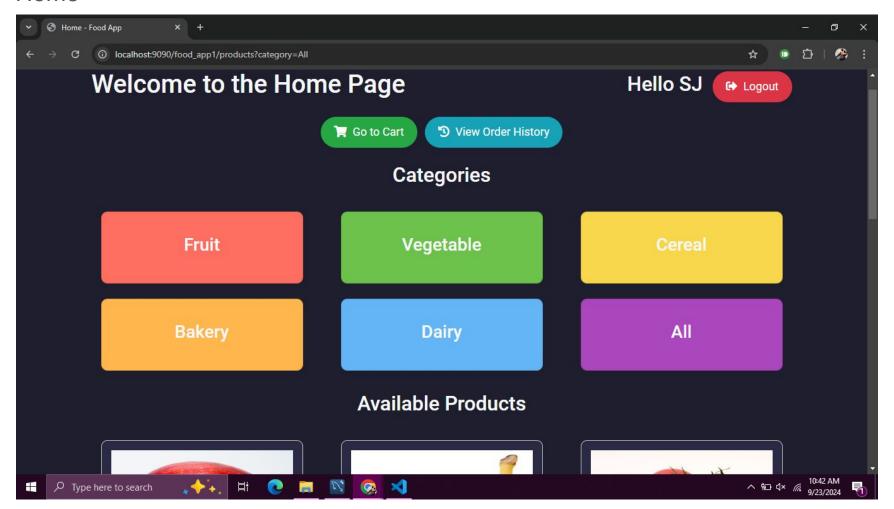
Register



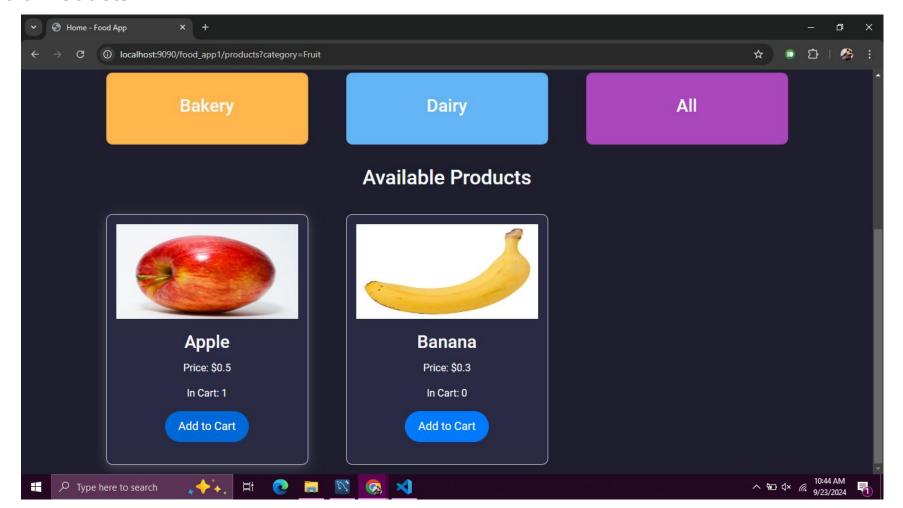
Login



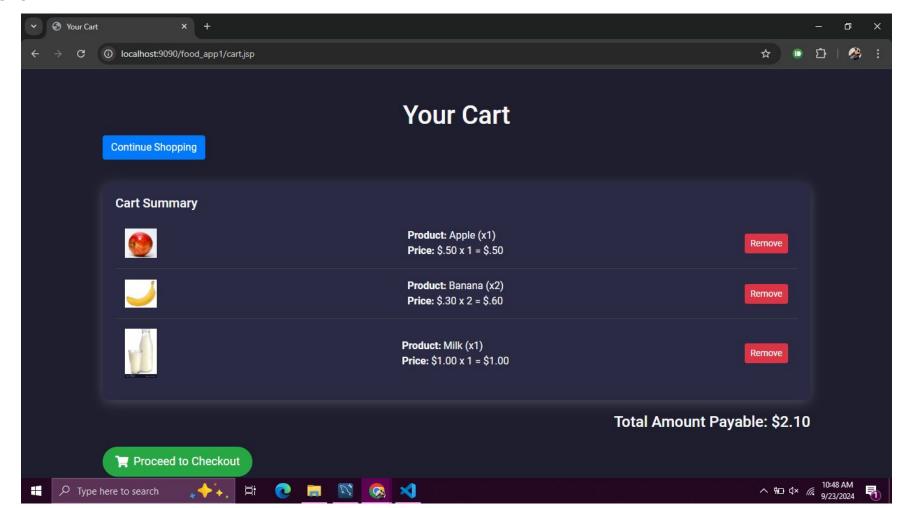
Home



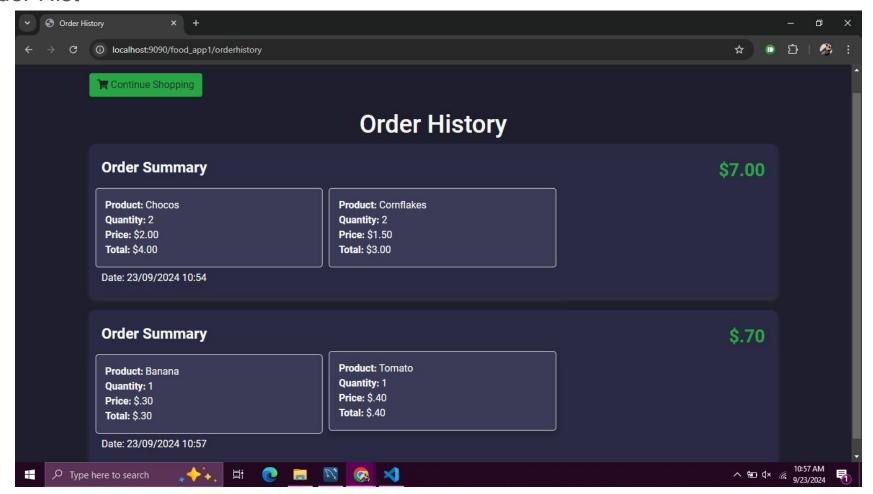
Fruit Products



Cart

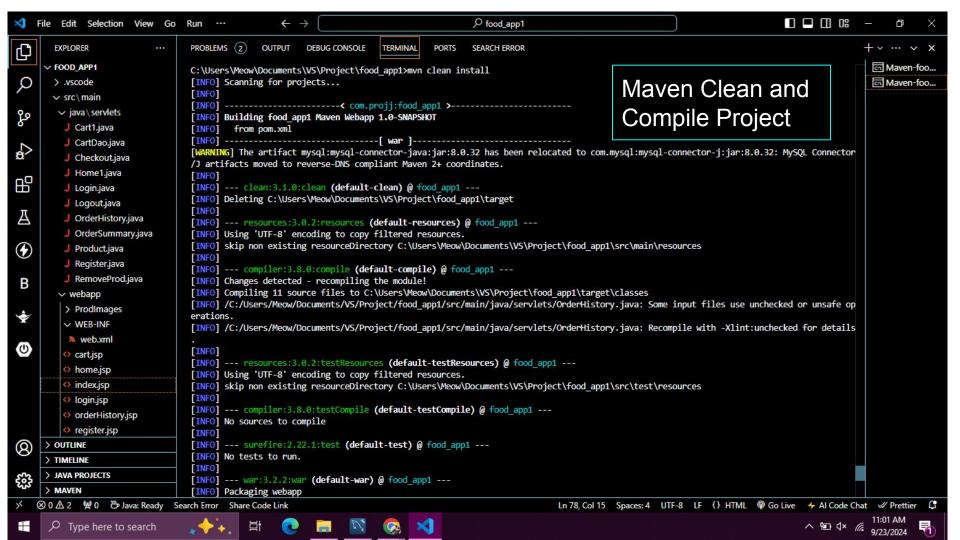


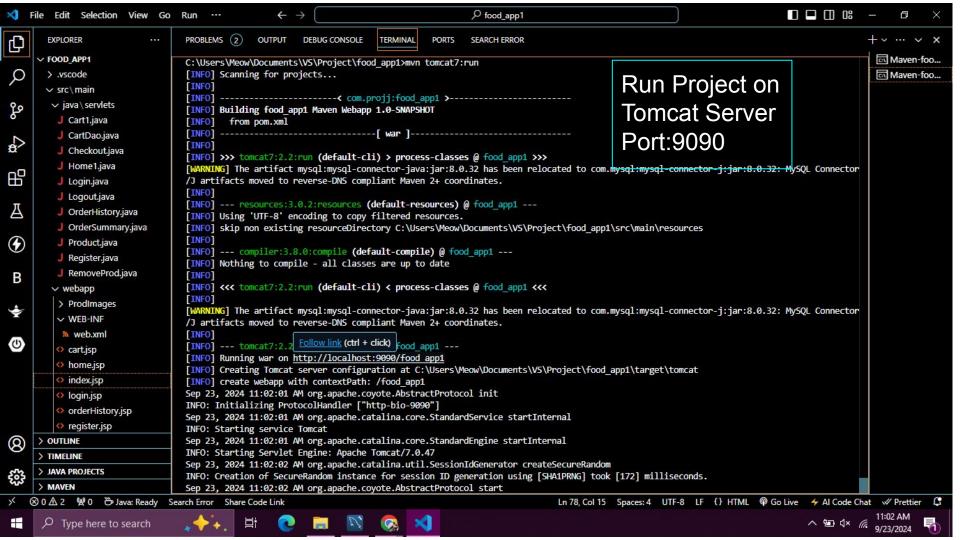
Order Hist



MySQL Database

```
CREATE TABLE order summaries (
CREATE TABLE user cred (
                                                       id INT AUTO INCREMENT PRIMARY KEY,
    id INT AUTO INCREMENT PRIMARY KEY,
                                                       user id INT,
    email VARCHAR(255) NOT NULL UNIQUE,
                                                       products JSON,
    password VARCHAR(255) NOT NULL,
                                                       total amount DECIMAL(10, 2),
    name VARCHAR(100) NOT NULL,
                                                       order_date DATETIME,
    contact number VARCHAR(15) NOT NULL
                                                       FOREIGN KEY (id) REFERENCES user cred(id)
CREATE TABLE products (
                                                CREATE TABLE user carts (
    id INT AUTO INCREMENT PRIMARY KEY,
                                                       id INT AUTO INCREMENT PRIMARY KEY,
    name VARCHAR(255) NOT NULL,
                                                       user id INT,
    category VARCHAR(100) NOT NULL,
                                                       product id INT, -- Add this column for product IDs
    price DECIMAL(10, 2) NOT NULL,
                                                       quantity INT, -- Add this column for product quantities
    image filename VARCHAR(255) NOT NULL
                                                       FOREIGN KEY (user id) REFERENCES user cred(id)
```





Design Structure of the Food Ordering Application The design structure of the Food Ordering Application follows a standard Model-View-Controller (MVC)

architecture, which separates the application into three interconnected components, enhancing modularity, maintainability, and scalability.

1. Model

The Model represents the application's data and business logic. It is responsible for accessing and managing data, including interaction with the database. • Product.java: Represents the product entity with properties such as ID, name, price, and image filename

- CartDao.java: Handles operations related to the user's cart, including loading and saving cart data to the database.
- OrderSummaryDao.java: Manages the storage and retrieval of order summaries for users. • UserServlet.java: Handles user-related operations, including registration and login.

2. View The View is responsible for displaying the user interface and presenting data to the user. In this application,

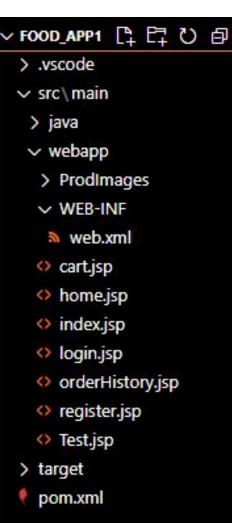
• home.jsp: Displays the welcome message, available categories, and products. It also shows the user's cart and order history options.

the Views are implemented using JSP (JavaServer Pages).

- login.jsp: Provides a login interface for users to access their accounts.
- registration.jsp: Allows new users to register for an account.
- cart.jsp: Displays the items in the user's cart and allows modifications.
- orderHistory.jsp: Shows all past orders made by the user, regardless of the session.
- 3. Controller

The Controller acts as an intermediary between the Model and the View, processing user inputs and interactions. It handles the application's flow, managing requests and responses.

- ProductServlet.java: Controls the flow of product-related requests, such as displaying products based on categories.
- UserServlet.java: Manages user authentication, including login and registration processes.
- CartDao.java: Although primarily a data access object, it also contains logic for managing the cart state.



Project Structure Overview

- src/main/java/servlets: Contains the Java classes for the Model and Controllers, including DAO classes and servlets.
- src/main/webapp: Contains all JSP files for the View, along with any images used in the application.
- **src/main/webapp/WEB-INF**: Contains the web.xml file, which defines the application configuration and servlet mappings.