

Angular Certification Training

Certification Project Statement: 2

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NOTE:

There are “**TWO**” certification projects mentioned on the LMS.

You can either “**choose**” certification project-1 or certification project-2.

Certification Project – 2

Problem Statement: Build an online food booking web application using Angular

Note:

- You are provided with a legacy application code on the LMS
- The legacy application is built using PHP/Laravel framework
- You can refer to this application to build the same application using Angular 8 framework

1. Background

FoodOrb is an online food ordering application that allows a user to order food from a nearby food outlet and get it delivered to his/her home.

This web application is a regular stop for millions of users. It has de-facto functions such as user registration, login, forgot password, etc. Along with that, it will have functionality of listing food items and a process to order the same.

The application is built using php and Laravel framework, and has the below-listed disadvantages:

1. The complexity to code is high. Large changes are required for updates, i.e., no incremental updates.
2. Tight coupling between view and controller, i.e., lack of flexibility for modification of either backend or frontend alone
3. Inefficient data access in view
4. Decreases development speed as the application gets bigger
5. Redundant implementation of Business Logic in controller and View

All these challenges led to unsatisfied user experience. So, the company decided to upgrade the website using the Angular Framework to focus on building a responsive and customer-oriented single page web application.

2. Goal

To migrate the legacy application to a RESTful web-application built using the Angular framework.

3. Use Cases:

The application is designed to provide user-specific functionality. We will have two users for this application:

- **Non-Registered** – These are new visitors who have never been to your application before and are initiating their first session. They must first register themselves to access the application.
- **Registered** – Existing users who login to the application using credentials (email & password)

4. Web Application Requirement:

The web application will be developed using the latest frontend technologies: HTML, CSS, JavaScript, and Angular.

You will be provided backend API endpoints developed in laravel 7 framework using PHP language.

5. Web Application Implementation:

Frontend

The frontend of the application will be developed using Angular. The frontend will be a single page application, which will be developed in modules that represent roughly the feature of the website.

Backend

The backed API is developed in laravel 7 a framework developed using PHP language.

There are a set of API endpoints that are mentioned below that will be used by the frontend application. The details of the API endpoints are as below.

base_url = http://localhost/ or http://<domain or ip address>/

1. Registration:
 - <base_url> + api/v1/register
2. Login:
 - <base_url> + api/v1/login
3. Forgot Password:
 - <base_url> + api/v1/forgotpassword
4. Users:
 - a. List Users: <base_url> + api/v1/users
 - b. User Details: <base_url> + api/v1/users/{user_id}
5. Settings:
 - <base_url> + api/v1/settings
6. Feed (Food Listing):

- <base_url> + api/v1/feed
7. Orders:
- <base_url> + api/v1/orders
8. Order:
- <base_url> + api/v1/orders/{order_id}
9. Order Status:
- <base_url> + api/v1/orders/<order_id>/status
10. Friends:
- <base_url> + api/v1/friends

6. Testing:

Testing for frontend will be done using jasmine & karma. Example unit tests will be written in order to convey the testing methodology used for testing of modular and component-based single-page applications built using angular.

7. Feature Flow:

The application will have 10 flows and the details of each flow are described below. *(Screenshots have been provided for reference implementation)*

1. Registration Flow
2. Login Flow
3. Forgot Password Flow
4. Home Page Flow
5. Search item Flow
6. Settings Page Flow
7. Profile Page Flow
8. Order Flow
9. Cart Flow
10. Tracking Flow

1. Registration Flow

This flow is designed for non-registered users. They must first register themselves to access the application.

The screenshot shows the 'FoodOrb' website header with 'Login' and 'Register' links. The main content area features a 'Register' form with the following fields: 'Name', 'E-Mail Address', 'Password', and 'Confirm Password'. Each field is represented by a white text input box with a light blue border. Below the 'Confirm Password' field is a blue 'Register' button. A mouse cursor is visible on the right side of the form area.

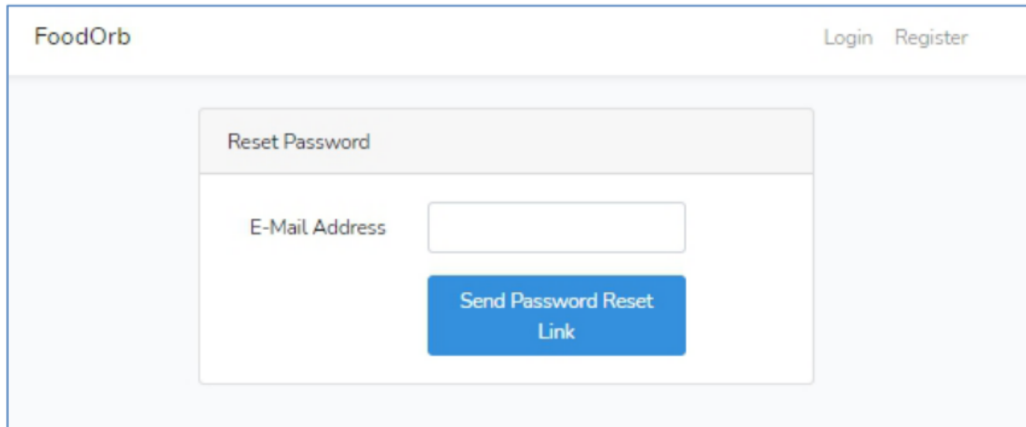
2. Login Flow

This flow is designed for registered users. They must use their login credentials to access the application.

The screenshot shows the 'FoodOrb' website header with 'Login' and 'Register' links. The 'Login' link is highlighted with a mouse cursor. The main content area features a 'Login' form with the following fields: 'E-Mail Address' and 'Password'. Each field is represented by a white text input box with a light blue border. Below the 'Password' field is a checkbox labeled 'Remember Me'. At the bottom of the form is a blue 'Login' button and a blue link labeled 'Forgot Your Password?'.

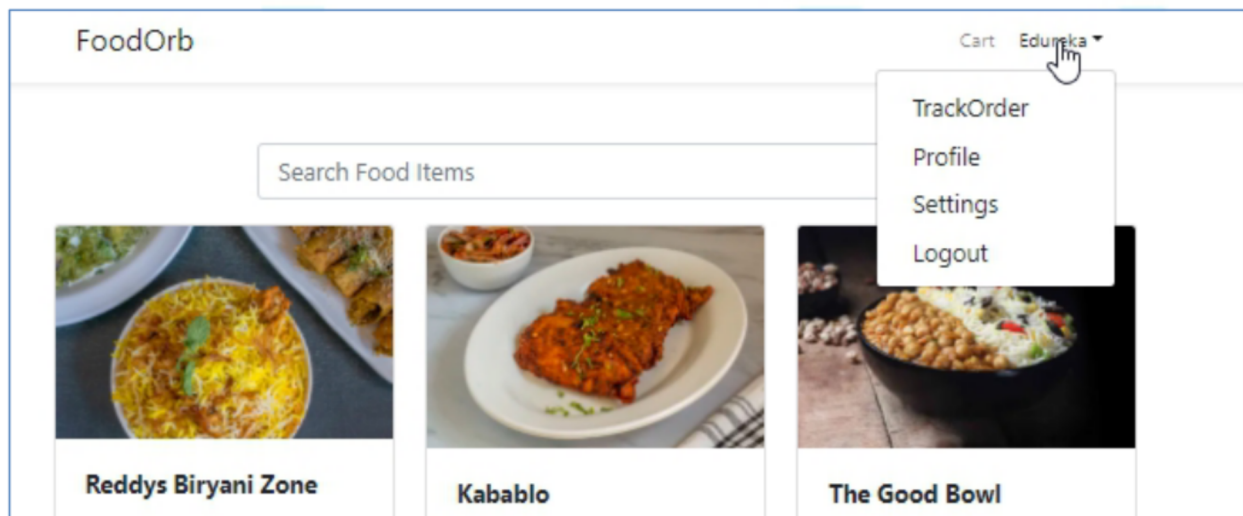
3. Forgot Password Flow

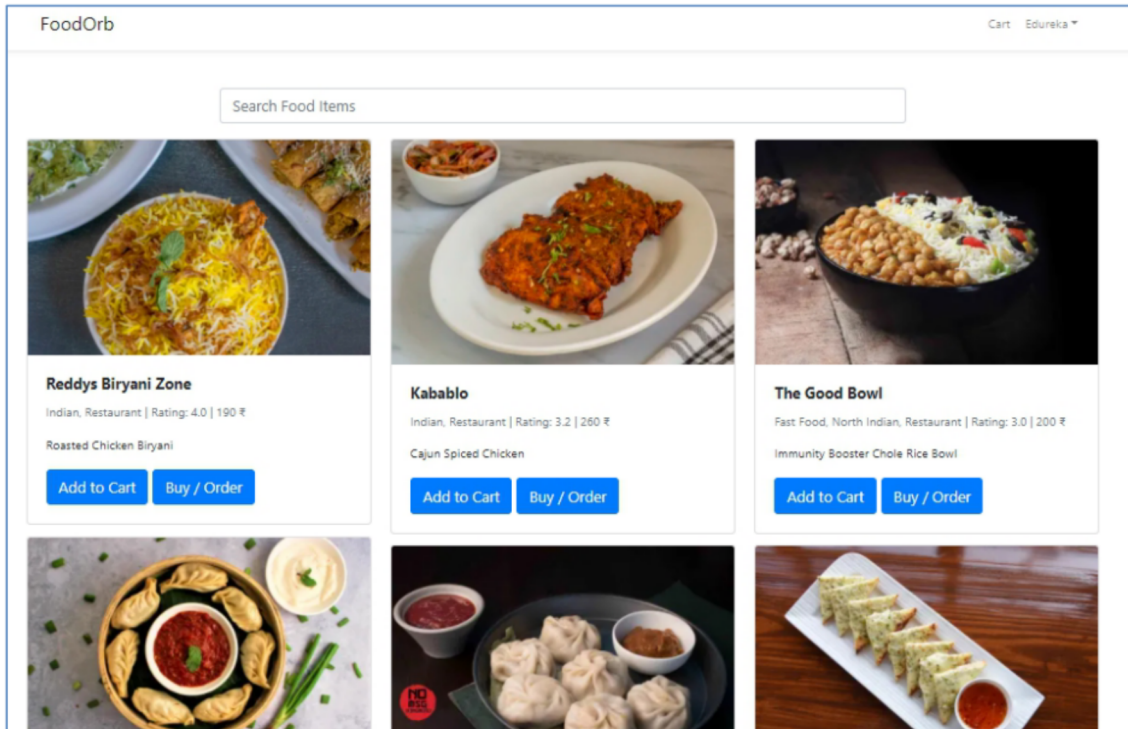
This flow is designed for registered users who do not remember their login credentials. This page must validate users based on email address. *(This flow must only validate if user exists. Do not implement any logic to send an email)*



4. Home Page Flow

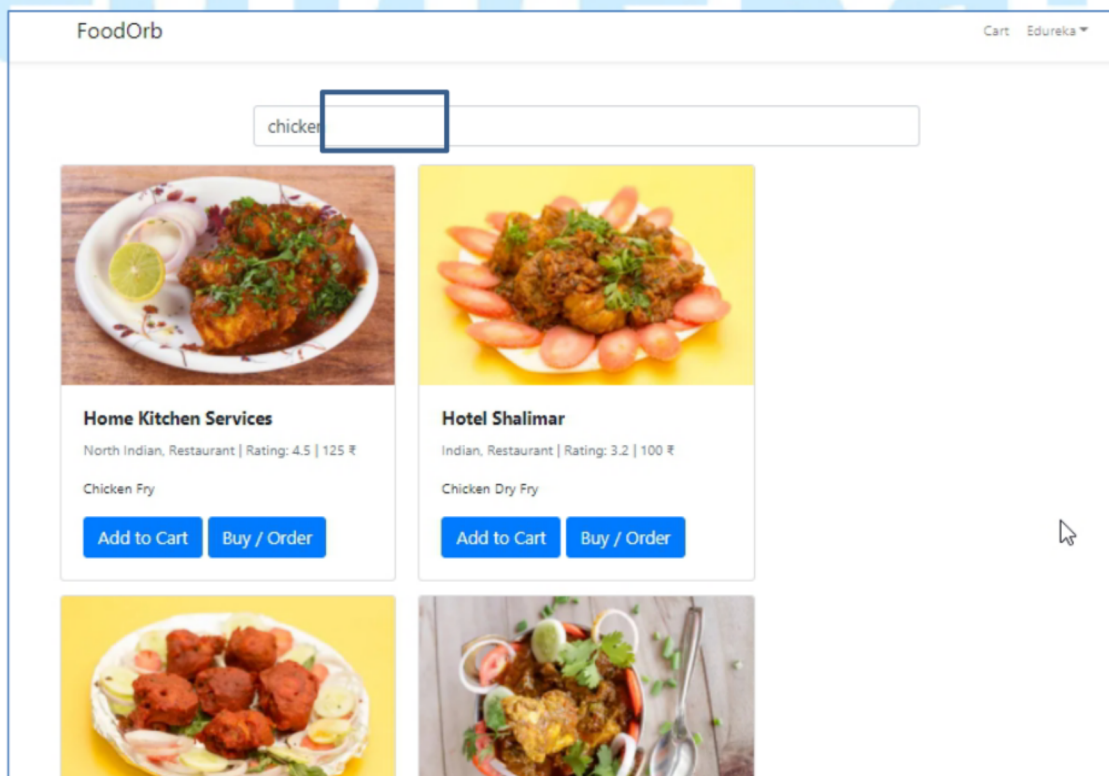
This flow contains links to navigate to other flow/page, lists the food items, and name of the restaurant that offers the dish.





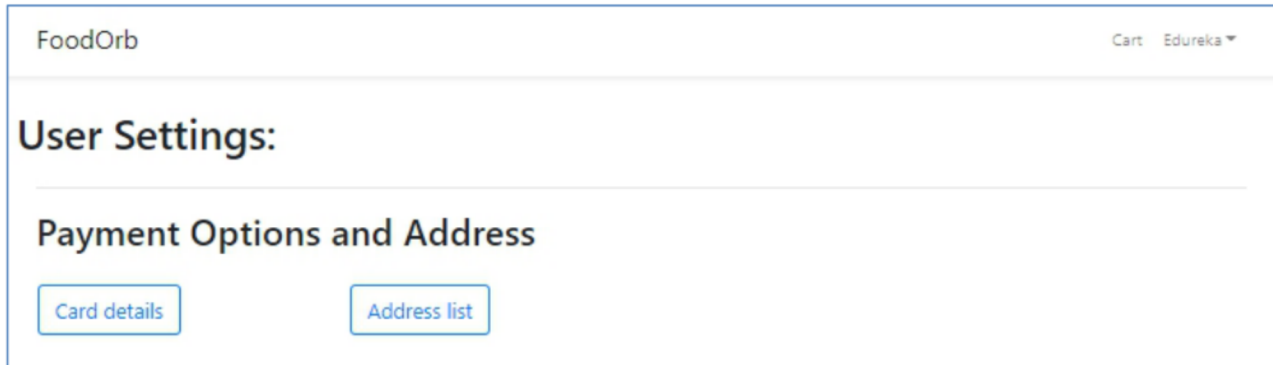
5. Search Item Flow

This flow filters the food item from the list.

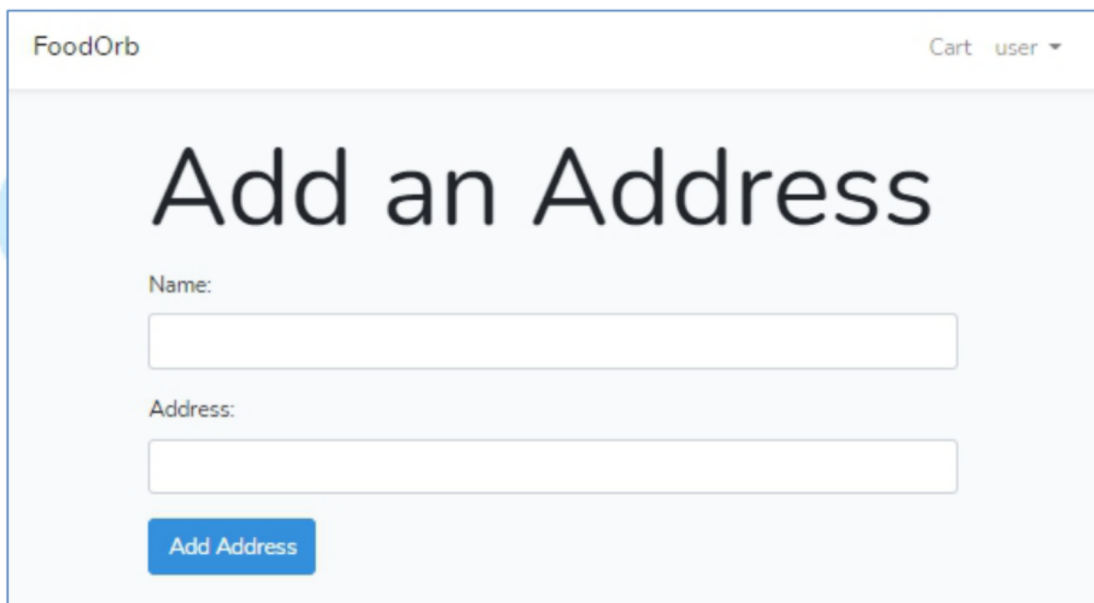


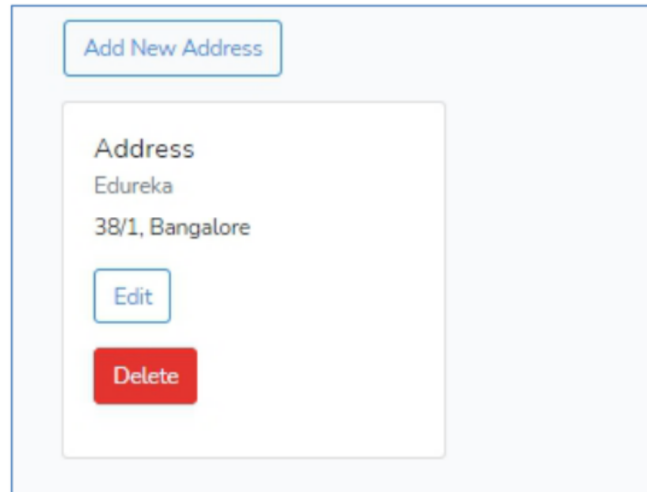
6. Settings Page Flow

This flow contains list of addresses and payment card details that the user has saved.



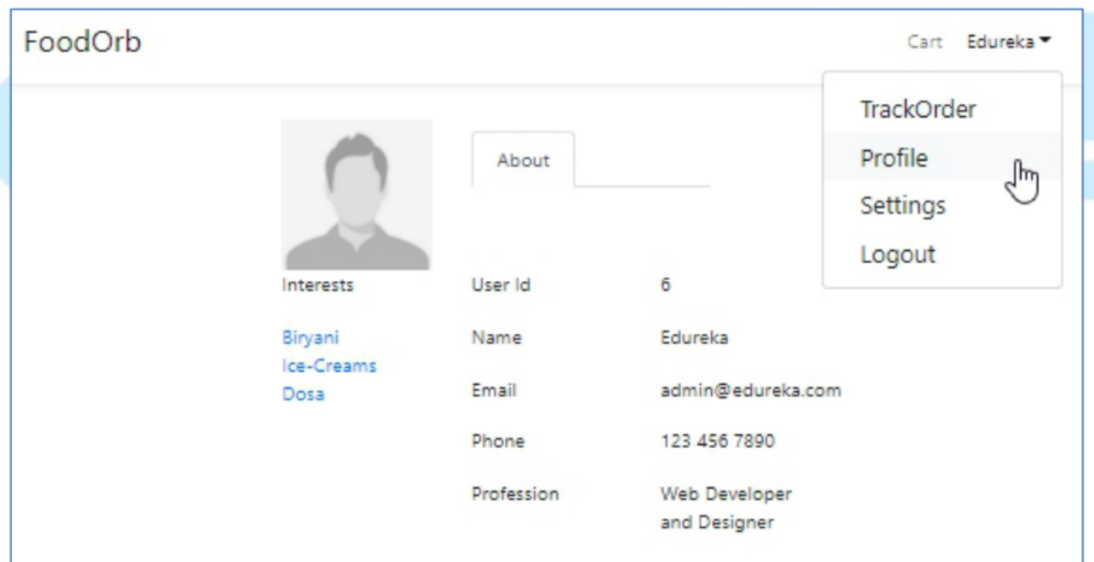
The address and payment tab include add, edit, and delete functionalities.





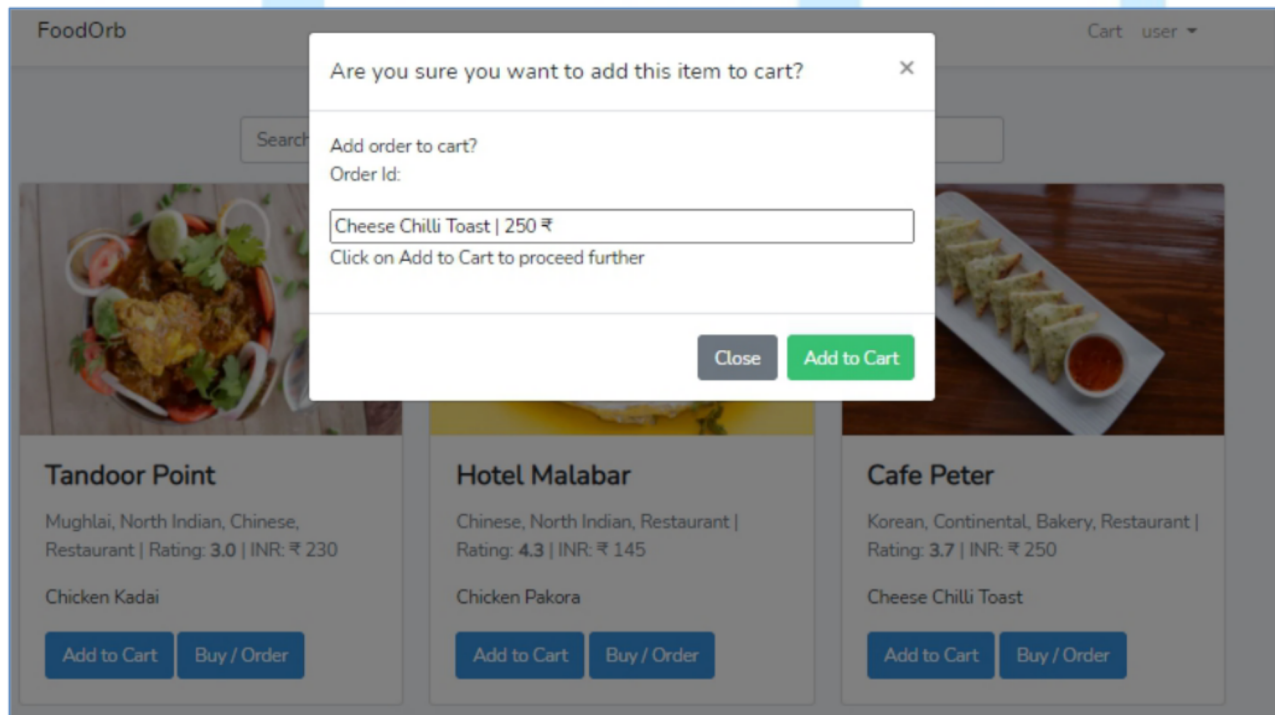
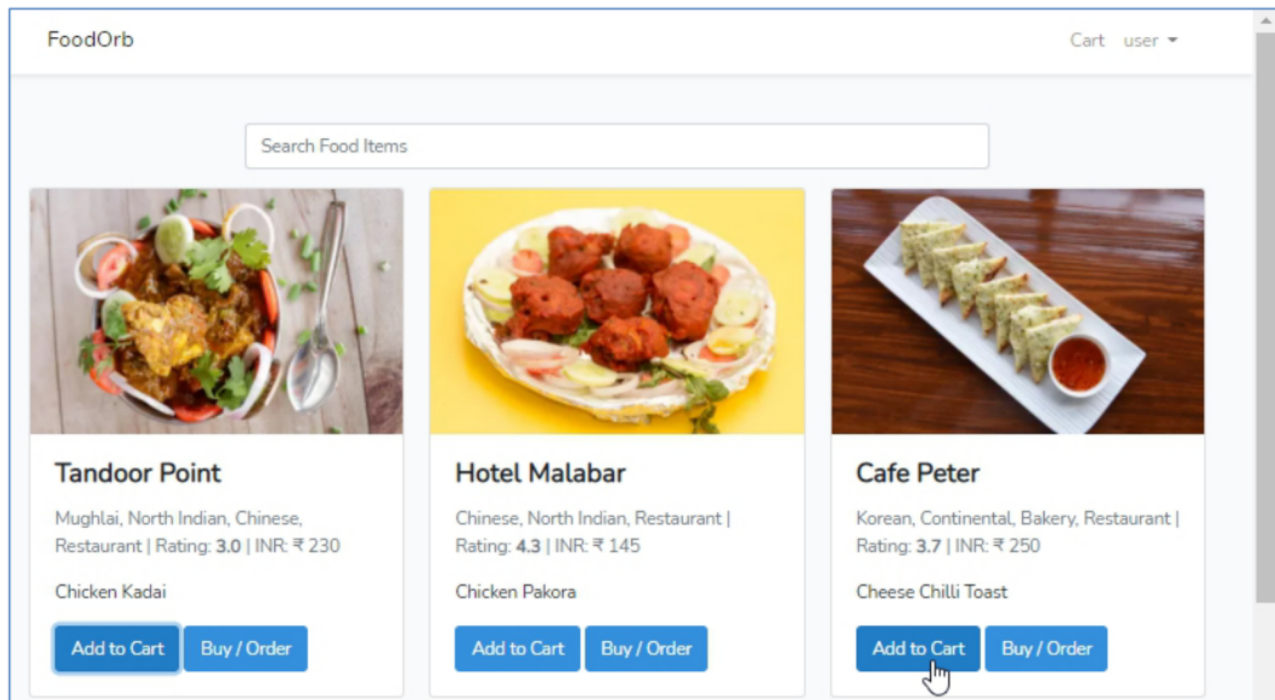
7. Profile Page Flow

This flow contains details of the user.



8. Order Flow

This flow adds item to cart after confirmation.



9. Cart Flow

This flow displays items added to the cart before order is placed. Once the order is placed, you will be navigated to tracking flow.

Contents of your cart.

Total Amount: INR ₹

Sr. No.	Order	Cost
1	Cheese Chilli Toast	250 ₹
Total		250 ₹

[Place Order](#) [Home](#)

10. Tracking Flow

This flow tracks the status of the order. The status is divided in three phases – Placed, Picked Up and Delivered. It also contains an option to cancel the order.

(Hint: Implement the status using timer)

[Home](#)

Order Details

Your Order Placed Successfully

Status:
Placed

Remaining time:
21

Your food is being cooked sit back and relax while our partners deliver hot and yummy food at your doorstep.

Order ID: 8105954

[Cancel Order](#)

Home

Order Details
Your Order Placed Successfully

Status:
Picked Up

Remaining time:
10

Your food is being cooked sit back and relax while our partners deliver hot and yummy food at your doorstep.

Order ID: 8977038

[Cancel Order](#)

Home

Order Details
Your Order Placed Successfully

Status:
Delivered

Remaining time:
0

Your food is being cooked sit back and relax while our partners deliver hot and yummy food at your doorstep.

Order ID: 3450449

[Cancel Order](#)