Full Stack Development with MERN

Frontend Development Report

Date	20/7/2024
Team ID	PNT2022TMID1720168902
Project Name	FOOD MINE
Maximum Marks	10 Marks

Project Title: Food Ordering System

Date: 20-JULY-2024

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Objective

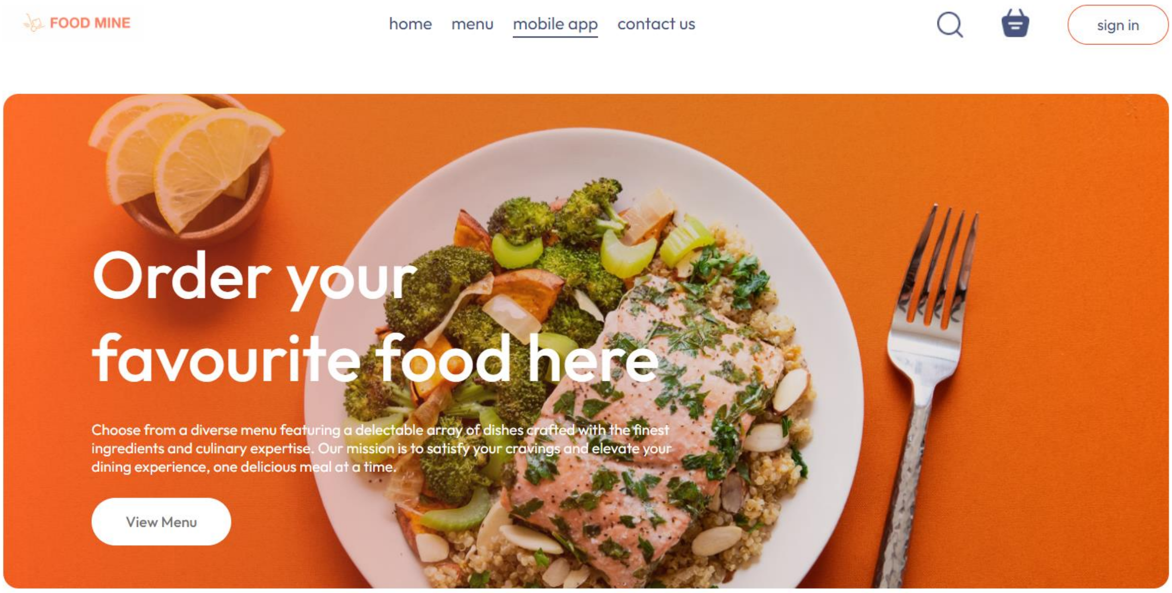
The objective of this report is to document the frontend development progress and key aspects of the user interface implementation for the Food Mine project.

Technologies Used

- **Frontend Framework:** React.js
- **State Management:** Zustand
- **UI Framework/Libraries:** React
- **API Libraries:** Axios is not used the menu data is stored in a context provider, and you're accessing it directly from there.

Project Structure

1.Home Page

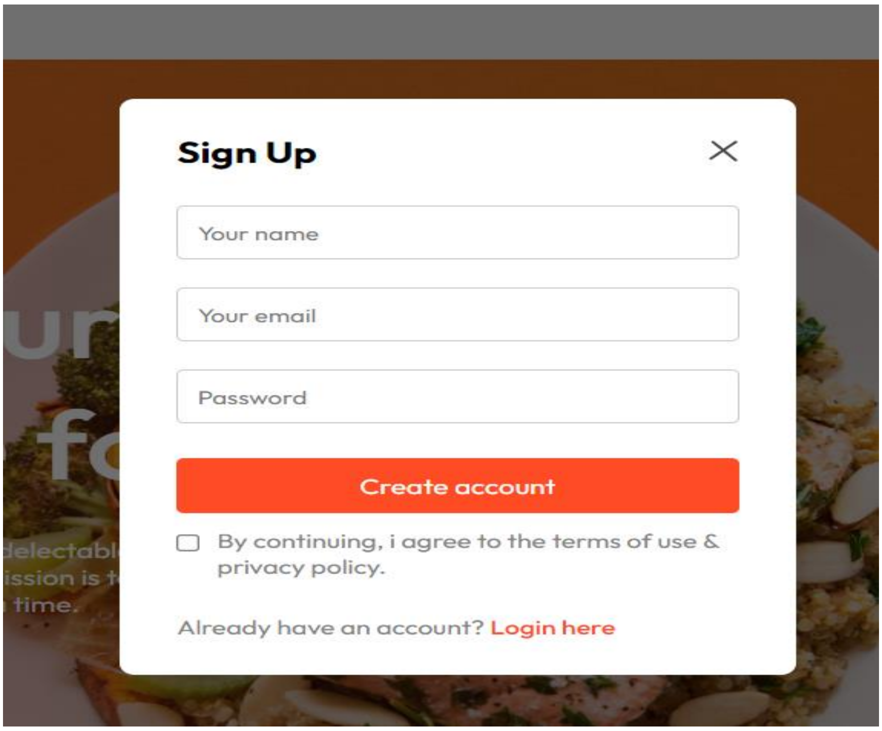


Order your favourite food here

Choose from a diverse menu featuring a delectable array of dishes crafted with the finest ingredients and culinary expertise. Our mission is to satisfy your cravings and elevate your dining experience, one delicious meal at a time.

Welcome to FoodEase, your gateway to effortless online food ordering. Here, you'll find curated restaurant listings tailored to your taste preferences, along with intuitive search tools and personalized recommendations. Our platform is designed to simplify your dining experience, offering innovative features and dedicated support.

2.Admin Page



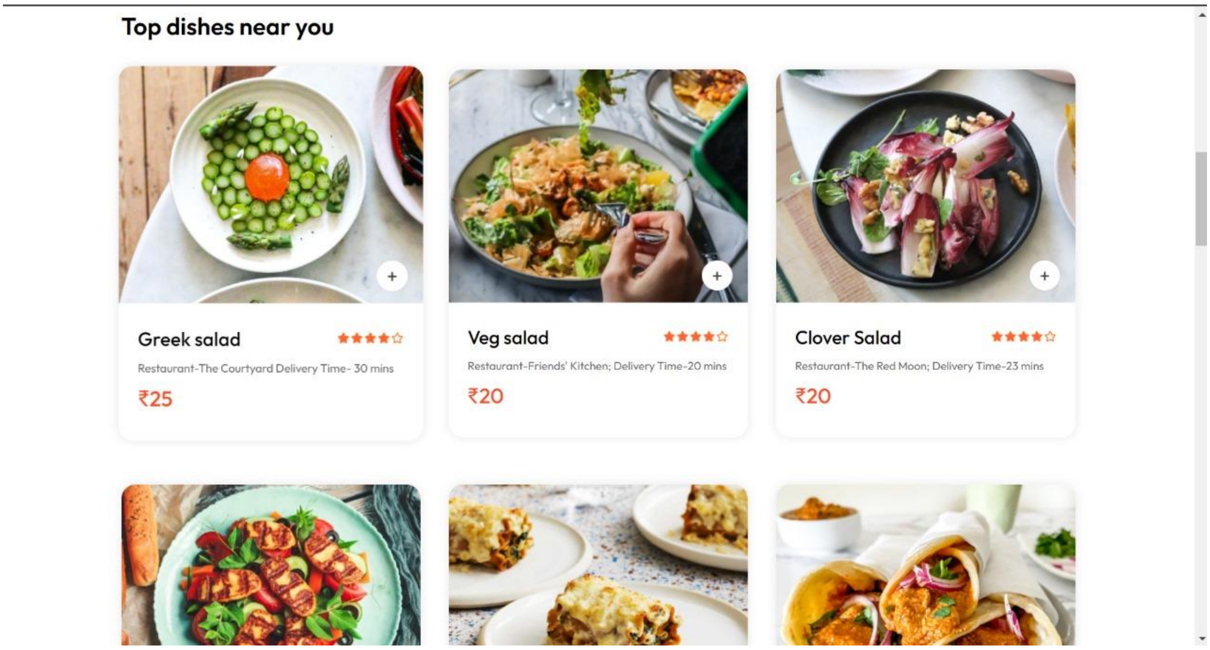
Sign Up

□ By continuing, i agree to the terms of use & privacy policy.

Already have an account? Login here

To start ordering, please enter your username, password, and email ID. Secure your account for personalized recommendations and faster checkout. Join FoodEase now for a seamless and delightful dining experience!

3.Cart Page

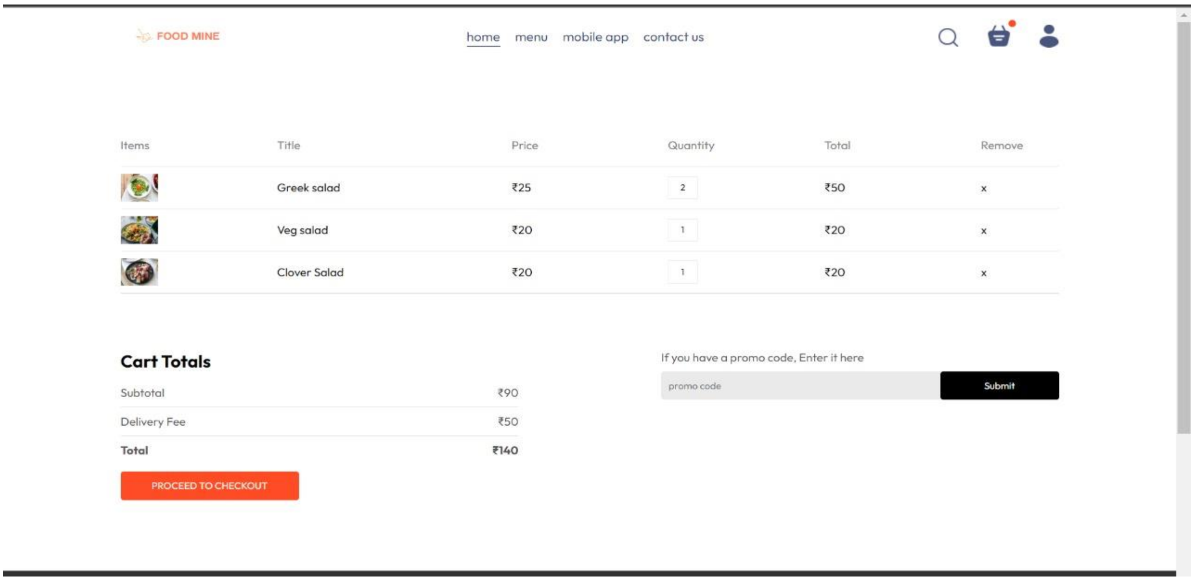


Top dishes near you

Greek salad ★★★★☆
Restaurant-The Courtyard Delivery Time- 30 mins
₹25

Veg salad ★★★★☆
Restaurant-Friends' Kitchen; Delivery Time-20 mins
₹20

Clover Salad ★★★★☆
Restaurant-The Red Moon; Delivery Time-23 mins
₹20



Items	Title	Price	Quantity	Total	Remove
	Greek salad	₹25	2	₹50	x
	Veg salad	₹20	1	₹20	x
	Clover Salad	₹20	1	₹20	x

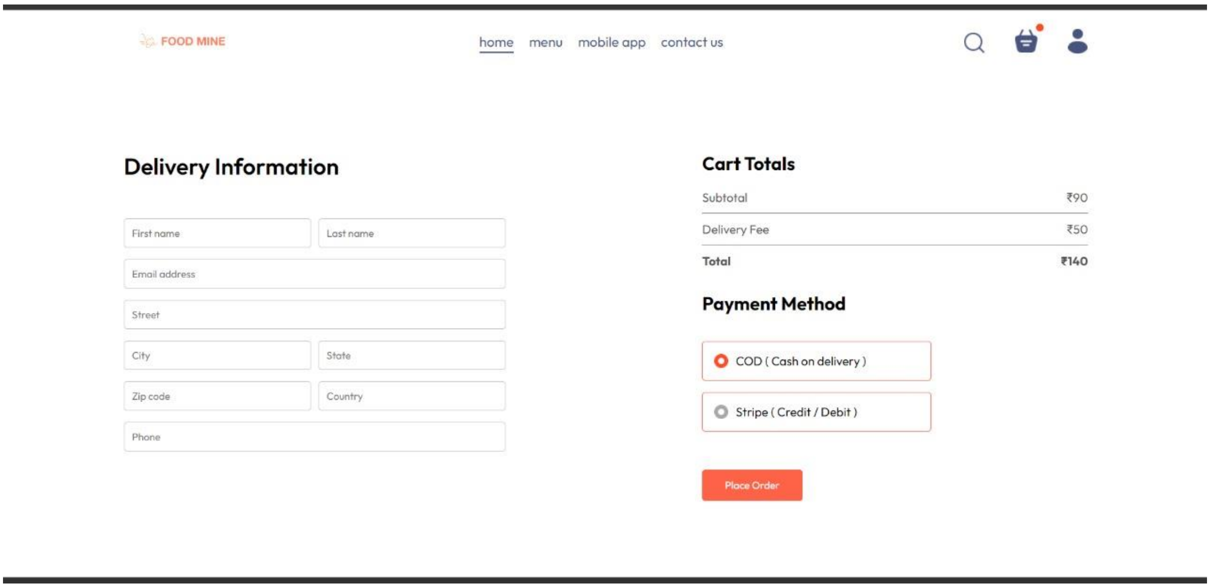
Cart Totals

Subtotal	₹90
Delivery Fee	₹50
Total	**₹140**

If you have a promo code, Enter it here

Review your selected items and ensure everything is just right. Ready to place your order? Proceed to checkout for a delicious meal delivered to your doorstep!

4.Payment



Delivery Information

First name
Last name
Email address
Street
City
State
Zip code
Country
Phone

Cart Totals

Subtotal	₹90
Delivery Fee	₹50
Total	₹140

Payment Method

● COD (Cash on delivery)

○ Stripe (Credit / Debit)

Payment Options

Choose your preferred payment method: online payment or cash on delivery. Secure and convenient transactions ensure a hassle-free experience. Complete your order and enjoy your meal!

Key Components

1. **App.js**

   App.js is the main application file that handles requests and routes for the food ordering app, facilitating menu display and order processing.

2. **/Components**
   - **AppDownload.jsx** - Renders a button to download the app
   - **ExploreMenu.jsx** - Displays a menu for users to browse food options
   - **FoodDisplay.jsx** - Shows a grid or list of food items with images and details
   - **FoodItem.jsx** - Displays detailed information about a single food item
   - **Footer.jsx** - Renders the website's footer with legal information and links
   - **Header.jsx** - Renders the website's header with logo, navigation, and search
   - **LoginPopup.jsx** - Displays a popup for users to log in or sign up
   - **Navbar.jsx** - Renders a navigation bar with links to main sections of the site

3. **/Pages**

- **Cart.jsx:** Cart component handles the shopping cart functionality, displaying added items and totals.
- **Home.jsx:** Home component renders the app's homepage, showcasing popular items and promotions.
- **MyOrders.jsx:** MyOrders component displays a user's past and current orders, with order details and status.

- **PlaceOrder.jsx:** PlaceOrder component handles the ordering process, collecting payment and delivery information.
- **Verify.jsx**: Verify component confirms user authentication and authorization, ensuring secure access to account features.

Routing

Routing is managed using React Router. Here are the main routes:

- **Imports:**Imports necessary modules for the online food app's server configuration in JavaScript.
- **Configuration:**Configures the Express app and defines the port for the online food app's server in JavaScript.
- **Middlewares:**Enables CORS and parses JSON data for secure and efficient data exchange in the online food app.
- **Database Connection:**Connects to the database to store and retrieve menu items, orders, and user data for the online food app.
- **API Endpoints**:Defines routes for user management, food search, cart management, and order placement in the online food app.
- **Static Images:**Serves images of food items and other visual assets for the online food app.
- **JS Root Route:**Returns a success message indicating the online food app's server is running and ready to accept requests.
- **Server Start:**Starts the online food app's server and logs a success message, indicating it's ready to receive requests.

State Management (If Applicable)

State management is achieved using [Redux/Context API].

Integration with Backend

The frontend communicates with the backend APIs hosted on [backend URL]. Key endpoints include:

- **GET /api/data** - Retrieves data for display.
- **POST /api/user/login** - Handles user authentication.
- **GET /api/cart** - Retrieves the user's cart
- **POST /api/cart** - Adds an item to the user's cart
- **GET /api/home** - Retrieves the home page
- **GET /api/myorders** - Retrieves the user's
- **POST /api/placeorder** - Places a new order
- **POST /api/verify** - Verifies the user's authentication

User Interface (UI) Design

- The UI design follows a [describe design principles].
- Implemented using [UI framework/library].

Third-Party Integrations (If any)

- **Express:** A minimal and flexible Node.js web application framework that provides a robust set of features to develop web and mobile applications.
- **Cors**: A Node.js package for providing a Connect/Express middleware that can be used to enable Cross-Origin Resource Sharing (CORS) with various options.
- **dotenv:** A zero-dependency module that loads environment variables from a .env file into process.env.
- **Routers (userRouter, foodRouter, cartRouter, orderRouter**): These are custom routers defined in your application, which handle different routes for user, food, cart, and order operations.