Date	27 June 2025
Team ID	LTVIP2025TMID55113
Project Name	OrderOnTheGo: Your On-Demand Food Ordering Solution
Maximum Marks	4 Marks

1. Introduction to Brainstorming & Idea Prioritization

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

This document serves as a comprehensive record of the brainstorming sessions conducted for the "OrderOnTheGo" project, an on-demand food ordering solution. It outlines the core concepts, user requirements, technical considerations, and potential features, followed by a systematic prioritization process. The goal is to unleash imagination, shape concepts, and establish a clear roadmap for development.

1.1. Project Overview: OrderOnTheGo

Introducing QuickBite, the cutting-edge digital platform poised to revolutionize the way you order food online. With QuickBite, your food ordering experience will reach unparalleled levels of convenience and efficiency.

Our user-friendly web app empowers foodies to effortlessly explore, discover, and order dishes tailored to their unique tastes. Whether you're a seasoned food enthusiast or an occasional diner, finding the perfect meals has never been more straightforward. Imagine having comprehensive details about each dish at your fingertips. From dish descriptions and customer reviews to pricing and available promotions, you'll have all the information you need to make well-informed choices. No more second-guessing or uncertainty – QuickBite ensures that every aspect of your online food ordering journey is crystal clear.

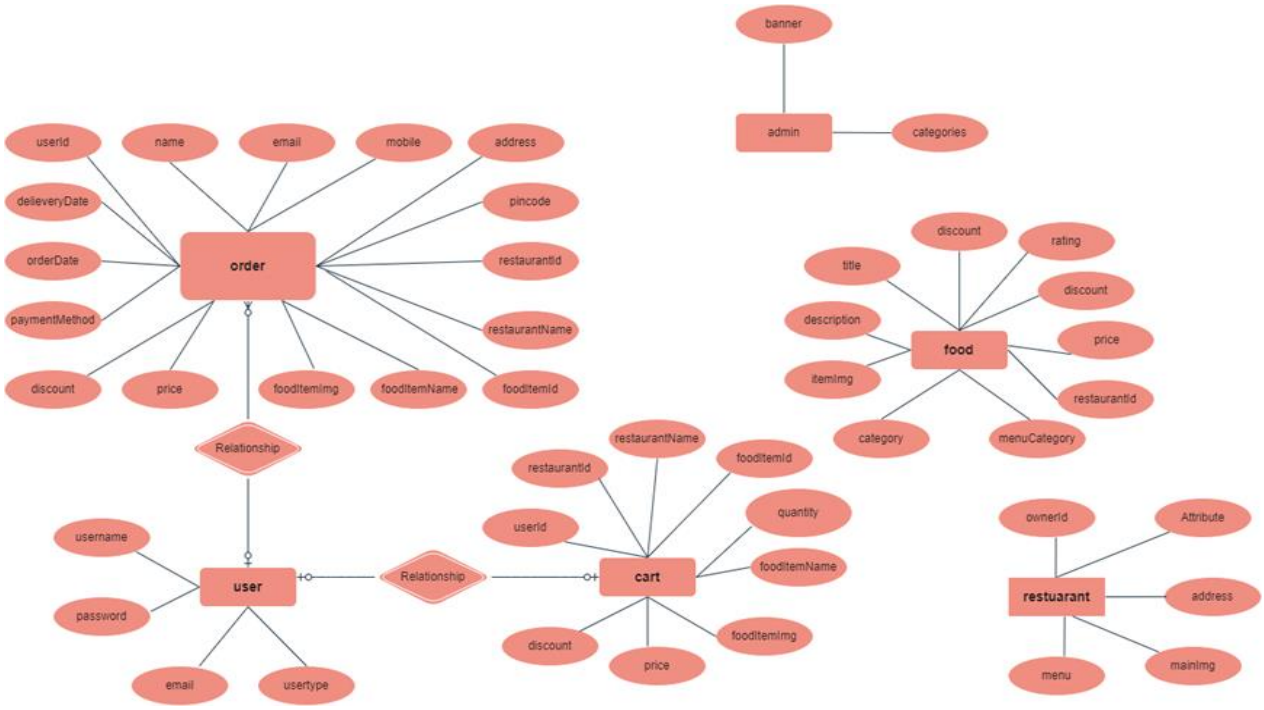
The ordering process is a breeze. Just provide your name, delivery address, and preferred payment method, along with your desired dishes. Once you place your order, you'll receive an instant confirmation. No more waiting in long queues or dealing with complicated ordering processes – QuickBite streamlines it, making it quick and hassle-free.

1.2. Skills Required for Development

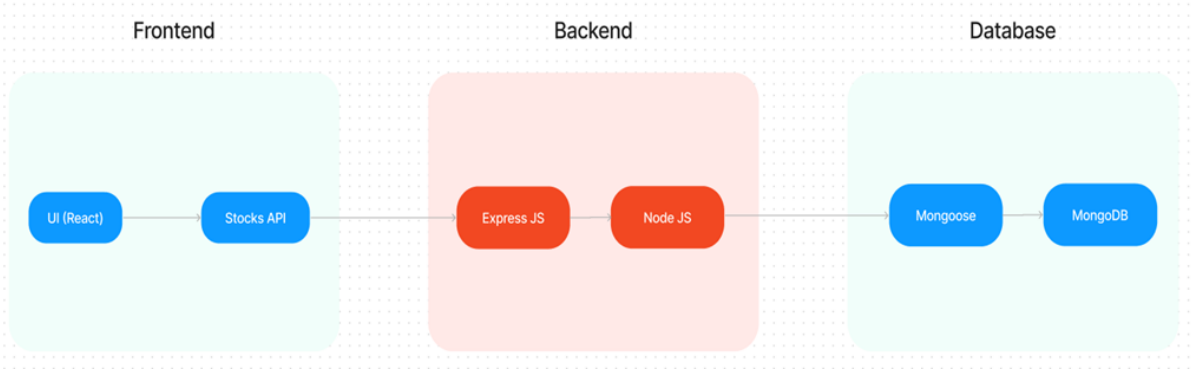
- HTML
- CSS
- Javascript
- Bootstrap
- React.js (Frontend)

- Node.js (Backend)
- MongoDB (Database)

1.3 ER-DIAGRAM



1.4 TECHNICAL ARCHITECTURE:



In this architecture diagram:

- The frontend is represented by the "Frontend" section, including user interface components such as User Authentication, Cart, Products, Profile, Admin dashboard, etc.,

- The backend is represented by the "Backend" section, consisting of API endpoints for Users, Orders, Products, etc., It also includes Admin Authentication and an Admin Dashboard.
- The Database section represents the database that stores collections for Users, Admin, Cart, Orders, and products.

2. Understanding the Problem & Core Concept Brainstorming

Before diving into specific features, it's crucial to solidify our understanding of the core problem "OrderOnTheGo" aims to solve and the primary user needs it addresses. The project description provides a clear scenario illustrating a key pain point: late-night cravings and the desire for convenience without interrupting workflow.

2.1. The "Late-Night Craving Resolution" Scenario Revisited

Consider Lisa, a college student burning the midnight oil to finish her assignment. As the clock strikes midnight, her stomach grumbles, reminding her that she skipped dinner. Lisa doesn't want to interrupt her workflow by cooking, nor does she have the energy to venture outside in search of food. This scenario highlights the need for a reliable, easy-to-use, and accessible food delivery service, particularly during unconventional hours.

Solution with Food Ordering App:

1. Lisa opens the Food Ordering App on her smartphone and navigates to the late-night delivery section, where she finds a variety of eateries still open for orders.
2. She scrolls through the options, browsing menus and checking reviews until she spots her favorite local diner offering comfort food classics.
3. Lisa selects a hearty bowl of chicken noodle soup and a side of garlic bread, craving warmth and satisfaction in each bite.
4. With a few taps, she adds the items to her cart, specifies her delivery address, and chooses her preferred payment method.
5. Lisa double-checks her order details on the confirmation page, ensuring everything looks correct, before tapping the "Place Order" button.
6. Within minutes, she receives a notification confirming her order and estimated delivery time, allowing her to continue working with peace of mind.
7. As promised, the delivery arrives promptly at her doorstep, and Lisa eagerly digs into her piping hot meal, grateful for the convenience and comfort provided by the Food Ordering App during her late-night study session.

This scenario clearly illustrates how "OrderOnTheGo" caters to users' needs, even during unconventional hours, by offering a seamless and convenient solution for satisfying late-night cravings without compromising on quality or convenience.

2.2. Core Problem and Solution Brainstorming

Based on the scenario and general project goal, the core problem "OrderOnTheGo" addresses is the inefficiency and inconvenience associated with traditional food ordering methods, especially when immediate and varied options are desired. The solution is to provide a comprehensive, intuitive, and efficient digital platform for food discovery and delivery.

Initial Brainstormed Core Concepts:

- **Seamless User Experience:** Prioritize ease of navigation, clear information, and quick checkout.
- **Extensive Restaurant & Menu Listings:** Offer a wide variety of cuisines and dishes, with detailed descriptions.
- **Reliable Delivery System:** Ensure timely and accurate order fulfillment.
- **Personalization:** Allow users to save preferences, past orders, and receive tailored recommendations.
- **Robust Admin Control:** Provide powerful tools for restaurants and platform administrators to manage their offerings and operations.

2.3. Target Audience & User Personas

While not a full persona development, initial brainstorming identified key user segments:

- **Busy Professionals:** Seeking quick lunch/dinner options, often rely on delivery for convenience.
- **College Students (like Lisa):** Need affordable, late-night, and convenient food options for study sessions or social gatherings.
- **Families:** Looking for diverse meal options for different tastes, often requiring easy group ordering.
- **Food Enthusiasts:** Interested in exploring new cuisines, reading reviews, and discovering promotions.
- **Restaurants/Food Businesses:** Seeking a platform to expand their reach, manage orders efficiently, and showcase their offerings.

3. Feature Brainstorming - User-Facing Functionality

This section details the various features envisioned for the end-user, focusing on enhancing their experience from browsing to order completion. Each feature was brainstormed with the goal of maximizing convenience, clarity, and satisfaction.

3.1. User Interface (UI) Components Brainstorming

The "Frontend" section of the technical architecture diagram highlights several user interface components crucial for an intuitive experience.

- **User Authentication:** Secure sign-up/login, password recovery, social media login integration (e.g., Google, Facebook).
- **Product Listing/Discovery:** Home page with featured restaurants, categories, search bar, filters (cuisine, price range, dietary needs, ratings).
- **Restaurant Pages:** Detailed restaurant information (address, hours, contact, ratings, reviews), menu display with dish photos.
- **Dish Details:** Comprehensive descriptions, ingredients, pricing, customization options (e.g., add-ons, spice level).
- **Cart Management:** Add/remove items, update quantities, view subtotal, apply discount codes.
- **Checkout Process:** Clear step-by-step flow for delivery address, payment method selection, order summary.
- **Order Tracking:** Real-time updates on order status (pending, preparing, out for delivery, delivered).
- **User Profile:** Manage personal information, saved addresses, past orders, payment methods, favorite restaurants/dishes.
- **Ratings & Reviews:** Ability for users to rate dishes and restaurants, write detailed reviews.
- **Notifications:** Push notifications or in-app alerts for order updates, promotions, new restaurants.
- **Search & Filter:** Advanced search capabilities by dish, restaurant, cuisine, location, dietary restrictions.

3.2. User-Facing Features Table

The table below summarizes key user-facing features identified during brainstorming, along with a brief description of their functionality.

Feature Area	Specific Feature	Description
Account Management	User Registration & Login	Allow users to create accounts and log in securely, supporting email/password and potentially social logins.
	Profile Management	Users can view and edit personal details, delivery addresses, and manage payment methods.
Discovery & Browsing	Restaurant/Dish Search	Powerful search bar to find restaurants or specific dishes by name, cuisine, or keywords.
	Filtering & Sorting	Options to filter by cuisine, dietary restrictions (vegetarian, vegan, gluten-free), price range, ratings, delivery time, and sort by relevance or popularity.
	Restaurant & Menu Display	Clear presentation of restaurant information, menus with images, descriptions, prices, and available

Feature Area	Specific Feature	Description
		options.
Ordering Process	Shopping Cart	Intuitive cart to add/remove items, adjust quantities, view subtotal, and apply promotional codes.
	Flexible Payment Options	Support for multiple payment methods (credit/debit cards, digital wallets, cash on delivery).
	Order Confirmation	Immediate confirmation of order placement with a summary and estimated delivery time.
Post-Order & Engagement	Real-time Order Tracking	Users can track their order status from preparation to delivery.
	Order History	Access to past orders for reordering or reference.
	Ratings and Reviews	Ability for users to provide feedback and rate their dining experience and specific dishes.
	Customer Support Chat	In-app support or FAQ section for common queries.
	Promotions & Offers	Display of ongoing discounts, coupons, and special offers relevant to the user.

4. Feature Brainstorming - Admin, Backend & Technical Considerations

Beyond the user-facing application, a robust food ordering solution requires powerful backend infrastructure and administrative tools to manage operations, data, and ensure smooth functionality. This section explores these critical components.

4.1. Backend API Endpoints & Functionality Brainstorming

The "Backend" section of the technical architecture diagram emphasizes API endpoints, which are the backbone of data exchange and business logic.

- **User API:** Endpoints for user registration, login, profile management, order history retrieval.
- **Order API:** Endpoints for creating, updating, and retrieving orders; managing order status transitions.
- **Product/Menu API:** Endpoints for retrieving restaurant lists, menus, dish details, managing categories.
- **Payment Gateway Integration:** Secure APIs for processing payments and managing transactions.
- **Notification Service:** Backend logic to send real-time notifications (e.g., order updates, promotions).
- **Search & Filtering Logic:** Backend algorithms to efficiently process search queries and apply filters to large datasets.

- **Review Management:** APIs for submitting and retrieving user reviews and ratings.

4.2. Admin Dashboard & Authentication Brainstorming

An effective "Admin Dashboard" is essential for platform operators and potentially restaurant owners to manage their respective domains.

- **Admin Authentication:** Secure login for administrators with role-based access control.
- **User Management:** View, edit, activate/deactivate user accounts; manage user roles.
- **Restaurant Management:** Onboard new restaurants, manage their profiles, operating hours, and availability.
- **Menu & Product Management:** Add, edit, remove dishes, categories, pricing, and availability for each restaurant.
- **Order Management:** View all incoming orders, update order status, resolve order-related issues.
- **Promotions & Discount Management:** Create, manage, and track promotional codes and special offers.
- **Content Management:** Manage static pages, FAQs, terms & conditions.
- **Reporting & Analytics:** Dashboards to track sales, popular dishes, user activity, delivery performance.
- **Dispute Resolution:** Tools to handle customer complaints or delivery issues.

4.3. Database Architecture & Collections Brainstorming

The "Database" section highlights the core data entities stored in MongoDB.

- **Users Collection:** Stores user profiles (name, email, password hash, addresses, payment methods).
- **Admin Collection:** Stores admin user details and roles.
- **Restaurants Collection:** Stores restaurant information (name, address, contact, operating hours, ratings).
- **Products/Dishes Collection:** Stores dish details (name, description, ingredients, price, category, associated restaurant).
- **Orders Collection:** Stores order details (user ID, restaurant ID, items ordered, total amount, delivery address, payment status, order status, timestamp).
- **Cart Collection:** (Potentially) Stores temporary cart items for logged-in users.
- **Reviews Collection:** Stores user-submitted ratings and reviews.
- **Promotions Collection:** Stores details of active promotional codes and offers.

4.4. Technical Considerations Brainstorming

Key technical aspects that will influence design and implementation:

- **Scalability:** Design for future growth in users, restaurants, and orders. Utilizing Node.js and MongoDB's scalability features.
- **Security:** Implement robust authentication (JWT), data encryption, protection against common web vulnerabilities (XSS, CSRF, SQL injection - although NoSQL, still relevant).
- **Performance:** Optimize database queries, API response times, and frontend rendering for a smooth user experience.
- **Error Handling:** Implement comprehensive error logging and graceful error handling on both frontend and backend.
- **Deployment Strategy:** Plan for continuous integration/continuous deployment (CI/CD) and hosting environment.
- **API Design:** RESTful API principles for clean, predictable, and maintainable endpoints.
- **Data Validation:** Strict input validation on the backend to maintain data integrity.
- **Payment Gateway Integration:** Selecting a secure and reliable payment gateway (e.g., Stripe, PayPal).
- **Real-time Updates:** Using WebSockets or similar for real-time order tracking notifications.

Problem Context:
In today's fast-paced world, users increasingly demand convenience, speed, and customization in their food ordering experiences. Traditional methods of food ordering can be cumbersome, lack real-time updates, or are limited by restaurant operational hours. This creates dissatisfaction for users, especially during off-hours like late nights.

Target Audience:
Our target users include college students, working professionals, night-shift employees, and anyone looking for reliable, on-demand food delivery with minimal effort.

Primary Problems Identified:
1. Inconvenience and delays in ordering food, especially during late hours.
2. Lack of information transparency regarding dish details, pricing, and availability.
3. Difficulty comparing restaurant offerings based on user preferences and reviews.
4. Absence of a unified platform that provides real-time updates, easy checkout, and secure payment processing.
5. Admins lack tools to efficiently manage inventory, orders, and customer feedback.

Project Solution:
QuickBite offers a comprehensive digital platform for on-demand food ordering. The web app allows users to easily browse dishes, read reviews, and place orders with real-time confirmation. Admin features allow streamlined management of orders and inventory. The platform supports personalized experiences, late-night delivery filters, and reliable backend

processing to ensure a hassle-free experience for all users.

In today's digital age, food lovers and busy individuals alike expect fast, intuitive, and reliable food ordering platforms. However, many platforms fall short when it comes to late-night accessibility, transparency in food details, and overall convenience.
QuickBite aims to address these issues through a user-friendly web app tailored for seamless browsing, ordering, and management of food items — even during late hours. Below is a summary of the key challenges and proposed solutions.

Identified Problems	**QuickBite Project Solutions**
Difficulty ordering food late at night	Late-night delivery filters and open restaurant listings
Lack of dish transparency (price, reviews)	Full dish details, reviews, and images on each listing
Complicated checkout processes	Simplified cart and single-page checkout
Admin difficulties managing orders/inventory	Admin dashboard for streamlined order & menu management
No real-time order updates	Instant order confirmation and status tracking

By focusing on convenience, transparency, and reliability, QuickBite empowers both users and administrators to manage food ordering efficiently.

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2. Scenario: Late-Night Craving Resolution

This scenario highlights the practical application and convenience of the OrderOnTheGo platform in a real-world situation, demonstrating its ability to meet immediate user needs efficiently.

Meet Lisa, a college student:

Lisa is burning the midnight oil to finish her assignment. As the clock strikes midnight, her stomach grumbles, reminding her that she skipped dinner. Lisa doesn't want to interrupt her workflow by cooking, nor does she have the energy to venture outside in search of food.

Solution with Food Ordering App (OrderOnTheGo):

1. Lisa opens the Food Ordering App on her smartphone and navigates to the late-night delivery section, where she finds a variety of eateries still open for orders.
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This scenario illustrates how OrderOnTheGo caters to users' needs, even during unconventional hours, by offering a seamless and convenient solution for satisfying late-night cravings without compromising on quality or convenience. It emphasizes the user-centric design and real-time efficiency of the platform.

Problem – Solution Fit Overview:

The **Problem–Solution Fit** ensures that the QuickBite platform directly addresses common user frustrations in the online food delivery space and meets the expectations of both customers and restaurant administrators. This step is crucial before expanding features or scaling the platform.

Purpose:

· **Solve late-night food access issues** by showcasing restaurants open during off-peak hours.

· **Simplify the food ordering process** through a user-centric design and efficient cart/checkout experience.

· **Provide complete dish information** (descriptions, prices, ratings, promotions) to eliminate guesswork.

· **Ensure transparent and smooth order fulfillment** with real-time order confirmation and tracking.

· **Empower restaurant admins** with tools to manage orders, inventory, and customer reviews from a single dashboard.

- Offer a unified platform that handles project lifecycle—from job posting to payment—without relying on multiple tools.
- Enable secure, milestone-based transactions to build trust.
- Provide visibility and opportunity for new freelancers through smart matching and rating systems.
- Improve hiring and project success rates through a real-time chat, review system, and user-friendly experience.

Problem Statement:

In the current landscape of online food delivery, users frequently encounter several pain points that hinder their experience. One of the most significant issues is the unavailability of food delivery options during late-night hours, leaving customers with limited or no choices when cravings strike after standard restaurant closing times. Even when options are available, the user interface of many platforms can be overwhelming or inefficient, requiring multiple steps to complete a simple order. Additionally, users often face uncertainty due to the lack of detailed information about dishes, such as pricing, availability, ingredients, and customer reviews. On the restaurant side, administrators struggle with fragmented tools for managing orders, updating menus, and communicating with customers in real time. The absence of a centralized system for handling both the customer experience and the backend operations leads to inefficiencies, reduced customer satisfaction, and missed business opportunities.

Solution:

QuickBite, a modern full-stack food ordering platform, delivers:

- **Streamlined food discovery & ordering experience** with clean UI, filters, and real-time restaurant availability
- **Late-night food delivery search and filters**, helping users satisfy cravings anytime
- **Order tracking system** with real-time updates and estimated delivery time
- **Secure checkout** with support for multiple payment methods and fast confirmations
- **Admin dashboard** for restaurants to manage dishes, view orders, update availability, and respond to customer feedback
- **User profiles** with past order history, reviews, and favorite dishes

- **Notification system** for order updates, promotional offers, and delivery progress
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Skills Required: HTML, CSS, Javascript, Bootstrap, React.js, Node.js, Mongo DB

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Solution Architecture: OrderOnTheGo

The solution architecture for OrderOnTheGo is designed to create a resilient, user-centric, and scalable platform that seamlessly connects hungry customers with their favorite eateries. Emphasizing responsiveness, security, and real-time interactions, the architecture ensures an intuitive user experience from browsing to order delivery, providing efficiency for both users and restaurants.

- **User-Friendly Interface:** A dynamic React.js frontend provides an intuitive experience for menu browsing, order customization, and checkout.
- **Secure Authentication & Authorization:** Robust user management system ensuring secure login for customers and restaurant partners.
- **Efficient Order Processing:** Node.js backend handles order creation, processing, and status updates, acting as the central hub for data flow.
- **Comprehensive Database Management:** MongoDB stores all critical data, including user profiles, restaurant information, menus, order history, and reviews, ensuring fast data retrieval and flexibility.
- **Secure Payment Gateway Integration:** Integration with popular payment processors (e.g., Stripe, PayPal) to facilitate secure and diverse payment options.
- **Real-time Notifications & Tracking:** Implementation of WebSockets or similar technologies for instant order confirmations, status updates, and delivery tracking.
- **Restaurant Partner Portal:** A dedicated interface for restaurants to manage their menus, prices, incoming orders, and track revenue.
- **Delivery Management System:** Functionality to manage delivery personnel, assign orders, and track delivery routes (can be integrated or a third-party service).
- **Scalable Cloud Deployment:** Deployment on cloud platforms (e.g., AWS, Google Cloud, Azure) to ensure high availability, scalability, and performance.

User Acceptance Testing (UAT)

This section outlines the User Acceptance Testing (UAT) plan for the OrderOnTheGo platform. UAT is a critical phase where end-users validate the software against their business requirements to ensure it meets their needs and expectations in a real-world environment. This process helps identify any gaps, defects, or usability issues before the final deployment, ensuring a high-quality product.

3.1. Project Overview

- **Project Name:** OrderOnTheGo
- **Description:** A comprehensive web-based platform that facilitates on-demand food ordering, connecting users with a diverse range of restaurants and enabling seamless order placement, tracking, and delivery. It aims to provide an intuitive and efficient experience for both customers and food establishments.

- **Project Version:** v1.0.0
- **Testing Period:** 2025-05-05 to 2025-06-30

3.2. Testing Scope

The UAT scope for OrderOnTheGo encompasses key functionalities from the perspective of various user roles:

- User registration and login (for customers, restaurant owners, and delivery personnel)
- Restaurant browsing and advanced search functionalities (by cuisine, location, rating, promotions)
- Detailed menu viewing, item selection, and customization options
- Streamlined order placement and management, including cart functionality and checkout
- Secure payment gateway integration (various payment methods)
- Real-time order tracking and status updates (from order confirmation to delivery)
- Review and rating system for both restaurants and delivery service quality
- User profile management, including saving multiple delivery addresses and preferred payment methods
- Application and validation of promotions, discounts, and loyalty programs
- Restaurant dashboard for managing menus, accepting/rejecting orders, and updating order status.
- Delivery driver interface for accepting tasks, navigation, and updating delivery status.

3.3. Requirements to be Tested

The following are the core user requirements that will be thoroughly validated during the UAT phase:

- **As a user,** I want to easily search for restaurants and dishes based on various criteria (e.g., cuisine, price, rating, proximity) so that I can quickly find what I want.
- **As a user,** I want to place and customize my order (e.g., add notes, select add-ons) without hassle, ensuring my meal is prepared exactly to my preferences.
- **As a user,** I want secure login and payment processing to protect my personal and financial information.
- **As a user,** I want to track the real-time status of my order from preparation to delivery so I know when to expect my food.
- **As a restaurant owner,** I want to efficiently manage my menu, receive and accept/reject incoming orders, and update order statuses to ensure smooth operations.
- **As a delivery driver,** I want to easily accept delivery tasks, navigate to customer locations, and update delivery status to ensure timely and accurate deliveries.
- **As an admin,** I want to manage reported users, restaurants, and disputes to maintain platform integrity and resolve issues.

3.4. Testing Environment

The UAT will be conducted in a dedicated staging environment that mirrors the production setup to ensure realistic testing conditions.

- **URL:** https://orderonthego.example.com
- **Credentials:**
  - **User (Customer):** test.user@example.com / password123
  - **Restaurant (Owner):** test.restaurant@example.com / restaurantpass
  - **Admin:** admin@example.com / adminpass
  - **Delivery Driver:** test.driver@example.com / driverpass

3.5. Test Cases

A subset of example test cases designed to validate critical functionalities:

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
TC-001	User Registration	1. Visit https://orderonthego.example.com 2. Click "Sign Up" 3. Fill in required fields (Name, Email, Password) 4. Click "Submit"	Account created successfully, user redirected to personalized dashboard. A confirmation email is sent.	Account created, redirected to dashboard	Pass
TC-002	Browse Restaurants	1. Login as customer 2. On homepage, observe restaurant listings 3. Use search bar to find "Pizza Palace" 4. Apply filter for "Italian" cuisine	User can see a list of available restaurants. "Pizza Palace" appears in search results. Only Italian restaurants are displayed.	...	Pass
TC-003	Place an Order (Customer)	1. Login as customer 2. Select "Burger Joint" 3. Add "Cheeseburger" and "Fries" to cart 4. Proceed to checkout 5. Select delivery address and payment method 6. Click "Place Order"	Order successfully placed, confirmation page displayed with order ID and estimated delivery time. User receives order confirmation	...	Pass

Test Case ID	Test Scenario	Test Steps	Expected Result	Actual Result	Pass/Fail
			email/notification.		
TC-004	Apply Promotion Code	1. Login as customer 2. Add items to cart 3. Proceed to checkout 4. Enter valid promotion code (e.g., "SAVE10") 5. Verify total amount	Discount from promotion code is applied correctly to the order total.	...	Pass
TC-005	Restaurant Accepts Order	1. Login as restaurant owner 2. Navigate to "New Orders" section 3. Locate TC-003's order 4. Click "Accept Order"	Order status changes to "Accepted" for both restaurant and customer. Estimated preparation time is set.	...	Pass

3.6. Bug Tracking

Any issues identified during UAT will be logged using a dedicated bug tracking system. Below are example entries:

Bug ID	Bug Description	Steps to reproduce	Severity	Status	Additional feedback
BG-001	Error on order placement form when no payment method selected.	1. Login as customer 2. Add items to cart 3. Proceed to checkout 4. Do NOT select a payment method 5. Click "Place Order"	High	Open	Form should show validation error message requiring payment method selection, instead of crashing.
BG-002	Search filter for cuisine not returning all relevant restaurants.	1. Login as customer 2. Search for "Mexican" 3. Observe results vs. known	Medium	Open	Some Mexican restaurants are missing from results. Check search indexing.

Bug ID	Bug Description	Steps to reproduce	Severity	Status	Additional feedback
		Mexican restaurants.			
BG-003	Order status not updating real-time for customer.	1. Customer places order (TC-003) 2. Restaurant accepts order (TC-005) 3. Customer refreshes order tracking page.	Medium	Open	Customer's order status remains "Pending" until manual refresh. Should be real-time.

Project Planning

This section details the agile planning approach adopted for the OrderOnTheGo project, including the product backlog, sprint schedules, and key metrics for tracking progress and team velocity. The project commenced in May 2025 and concluded at the end of June 2025.

1. Product Backlog & Sprint Schedule

The product backlog for OrderOnTheGo is organized into epics and user stories, prioritized based on business value and dependencies. These stories are then allocated to specific sprints, ensuring a structured and iterative development process.

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	User Authentication & Profile Management	USN-1	As a user, I can sign up and log in securely.	3	High	Team A
		USN-2	As a user, I can reset my password.	2	Medium	Team A
		USN-3	As a user, I can update my profile details (e.g., delivery address, payment methods).	3	High	Team A
Sprint-2	Restaurant & Menu Browsing	USN-4	As a user, I can browse available	2	High	Team B

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
			restaurants.			
		USN-5	As a user, I can search for restaurants by cuisine or name.	3	High	Team B
		USN-6	As a user, I can view a restaurant's menu and dish details.	2	Medium	Team B
Sprint-3	Order Placement & Customization	USN-7	As a user, I can add/remove items to/from my cart.	3	High	Team C
		USN-8	As a user, I can customize dish options (e.g., add-ons, special instructions).	2	High	Team C
		USN-9	As a user, I can place an order and select delivery options.	3	High	Team C
Sprint-4	Payment, Tracking & Reviews	USN-10	As a user, I can make secure payments for my order.	3	High	Team D
		USN-11	As a user, I can track the real-time status of my order.	2	Medium	Team D
		USN-12	As a user, I can leave a review and rating after order completion.	2	Medium	Team D
		USN-13	As a restaurant owner, I can receive and manage incoming orders.	3	High	Team D

2. Project Tracker, Velocity & Burndown Chart

This table tracks the progress of each sprint, including planned and actual completion dates and the story points delivered. This data is crucial for calculating team velocity and generating burndown charts, providing insights into team productivity and forecasting future sprint capacities. The project spans from May to the end of June, reflecting a rapid, agile development cycle.

Sprint	Total Story Points (Planned)	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	8	6 Days	1 May 2025	7 May 2025	8	7 May 2025
Sprint-2	7	6 Days	8 May 2025	14 May 2025	7	14 May 2025
Sprint-3	8	6 Days	15 May 2025	21 May 2025	8	21 May 2025
Sprint-4	10	6 Days	22 May 2025	28 May 2025	10	28 May 2025

Functional Requirements: OrderOnTheGo (QuickBite)

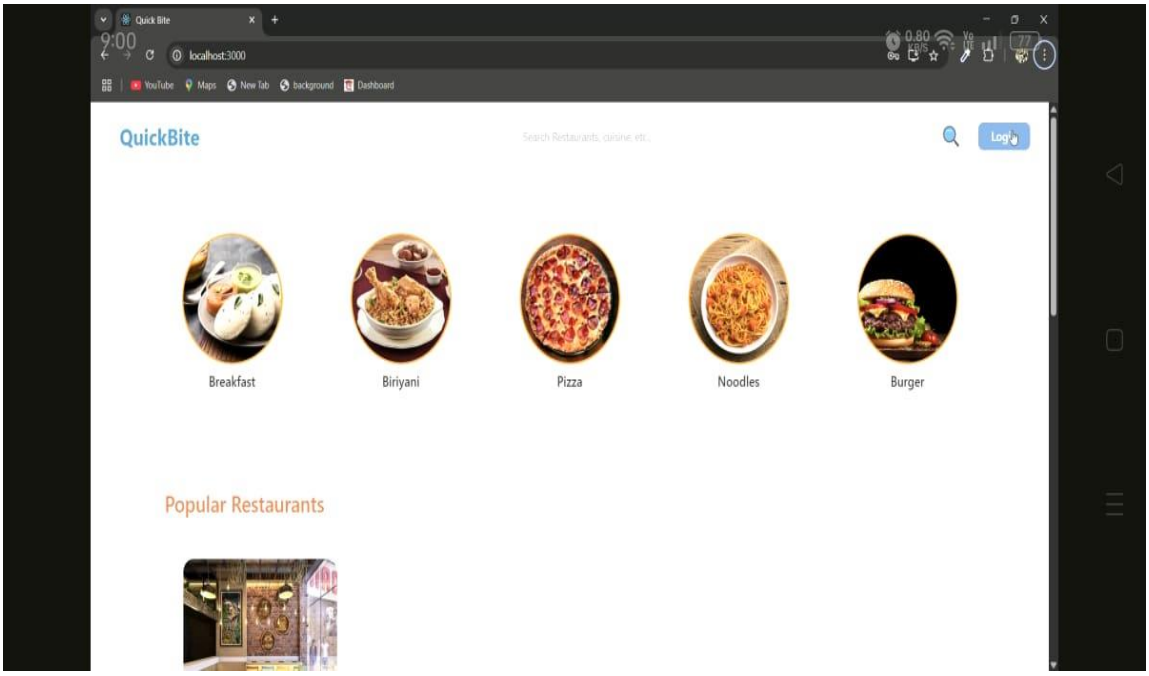
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Authentication & Profile Management	• Sign up (Customer, Restaurant, Delivery Partner roles) • Login (Email/Password, OAuth via Google/Facebook) • Password Reset / Forgot Password • View and Edit User Profile (name, contact, delivery addresses) • View Order History
FR-2	Menu Browsing & Discovery	• Browse restaurants by category (cuisine, rating, proximity) • Search for restaurants or dishes by keywords • Filter menus based on dietary restrictions (vegetarian, vegan, gluten-free) • View detailed dish descriptions, ingredients, allergens, prices, and reviews • View restaurant information (hours, address,

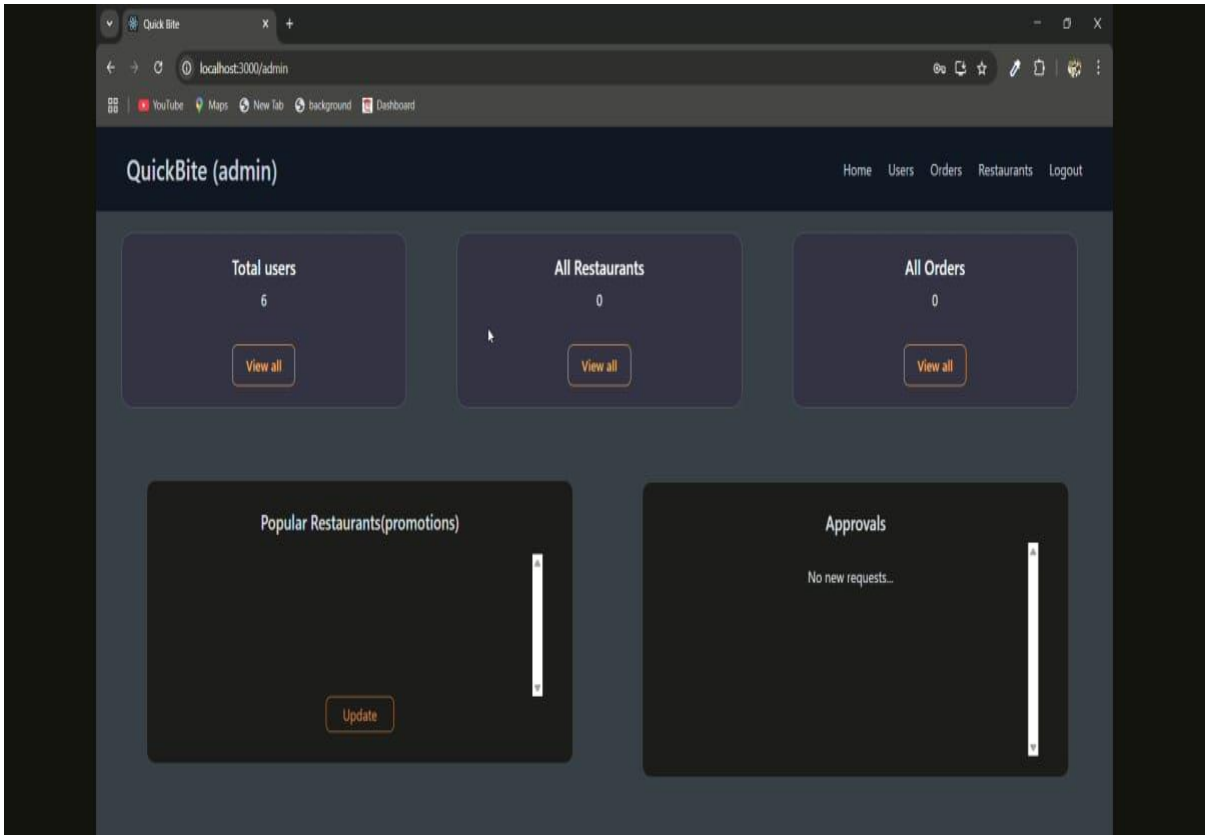
FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
		contact, ratings)
FR-3	Order Management & Customization	• Add/remove dishes to/from cart • Adjust quantities of items in cart • Customize dishes (e.g., add/remove toppings, special instructions) • Apply promotional codes or discounts • Place order • View pending and past orders • Reorder previous orders
FR-4	Payment & Delivery	• Select preferred payment method (Credit Card, Debit Card, Digital Wallets, Cash on Delivery) • Secure payment processing • Specify delivery address and instructions • Real-time order tracking (kitchen prep, out for delivery, estimated arrival) • Receive delivery status notifications (in-app, SMS)
FR-5	Ratings & Reviews	• Rate and review ordered dishes • Rate and review restaurants • View average ratings for dishes and restaurants
FR-6	Restaurant Partner Features	• Restaurant registration and profile management • Menu creation, editing, and dish availability management • Receive and accept/reject incoming orders • Update order status (e.g., preparing, ready for pickup) • View sales reports and order analytics
FR-7	Admin & Support Features	• Manage user accounts (customers, restaurants, drivers) • Manage restaurant listings and approvals • Manage promotional campaigns and discounts • Resolve disputes and manage reported content/users • Access comprehensive analytics dashboard • Customer support chat/ticketing system

Non-functional Requirements: OrderOnTheGo (QuickBite)

NFR No.	Non-Functional Requirement	Description
NFR-1	Usability	The platform should offer a clean, intuitive, and easy-to-navigate user interface (UI) for customers, restaurant partners, and delivery drivers, allowing for efficient task completion with minimal clicks.
NFR-2	Security	All sensitive data (user credentials, payment information, personal details) must be encrypted both in transit (SSL/TLS) and at rest. Implement robust role-based access control and token-based authentication. Regular security audits and vulnerability assessments.
NFR-3	Reliability	Ensure order placement, payment processing, delivery tracking, and notification systems work reliably and consistently under all operational conditions. Minimize downtime and data loss.
NFR-4	Performance	Pages, menus, and search results should load within 2 seconds. Order placement and status updates should be near-instant. The system must efficiently handle concurrent user requests during peak hours.
NFR-5	Availability	The system should maintain a minimum of 99.9% uptime across all core services (ordering, payment, tracking) to ensure continuous service availability for users and partners.
NFR-6	Scalability	The architecture must support the rapid addition of new users, restaurants, delivery partners, and features. It should be able to handle increasing transaction volumes and geographical expansion without significant performance degradation.
NFR-7	Maintainability	The codebase should be modular, well-documented, and adhere to coding standards to facilitate easy bug fixes, updates, and the addition of new features by development teams.
NFR-8	Data Integrity	Ensure the accuracy, consistency, and validity of all data, especially for orders, payments, user profiles, and restaurant menus. Implement data validation and robust backup/recovery procedures.
NFR-9	Responsiveness	The web application must be fully responsive, providing an optimal viewing and interaction experience across a wide range of devices, from desktops to tablets and smartphones.

SCREENSHOTS

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YouTube
Maps
New Tab
background
Dashboard
QuickBite (admin)
Home
Users
Orders
Restaurants
Logout
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0
View all
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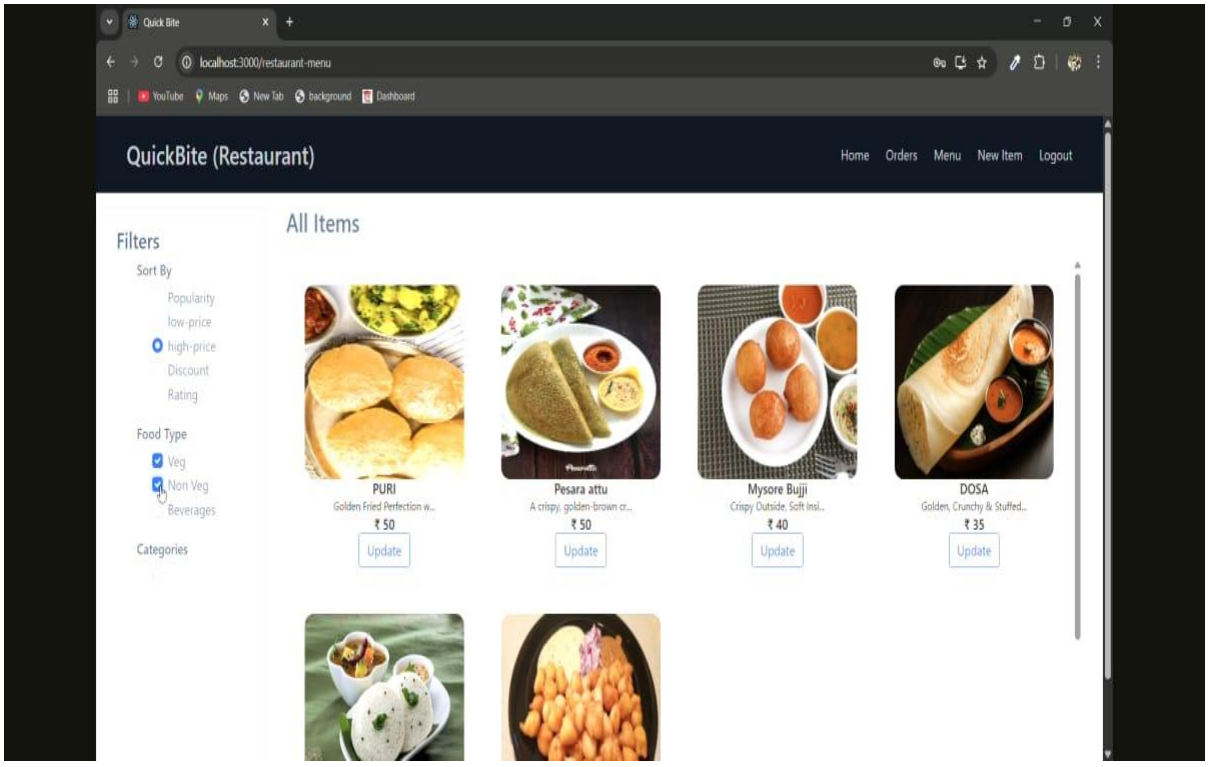
View all
Popular Restaurants(promotions)
Update
Approvals
No new requests...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YouTube
Maps
New Tab
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Dashboard
QuickBite (Restaurant)
Home
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Menu
New Item
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Discount
Rating
Food Type
Veg
Non Veg
Beverages
Categories
All Items
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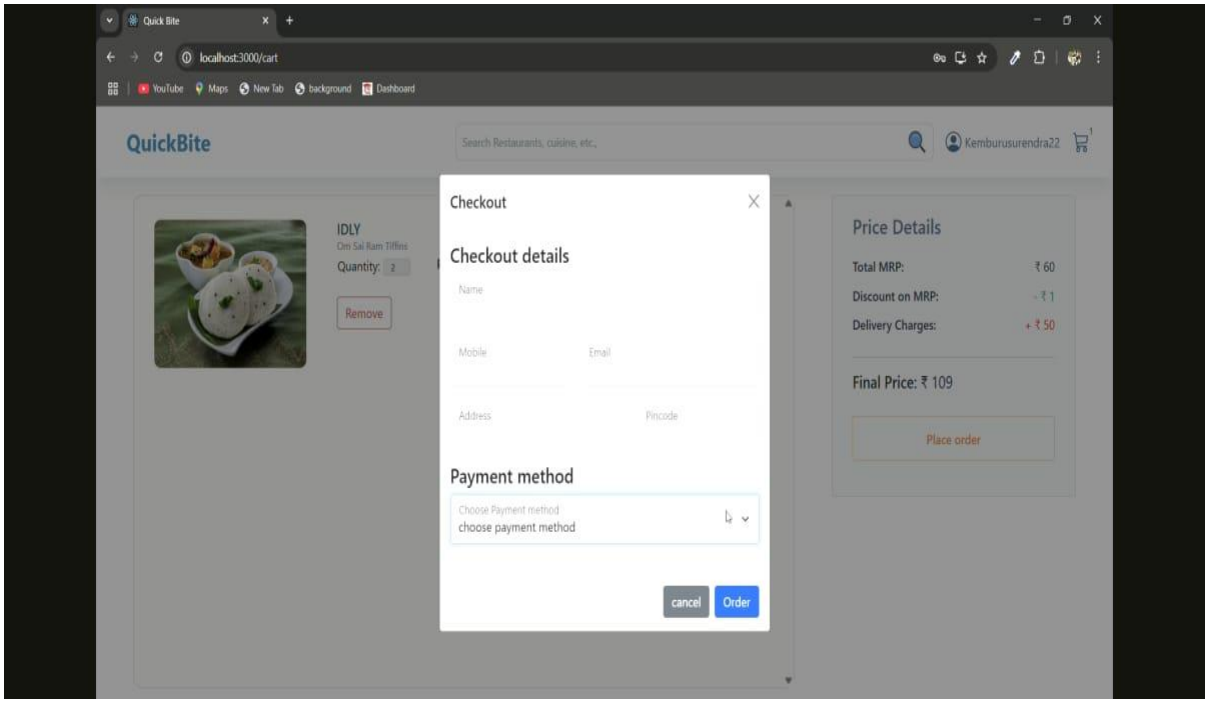
Update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Mobile
Email
Address
Pincode
Payment method
Choose Payment method
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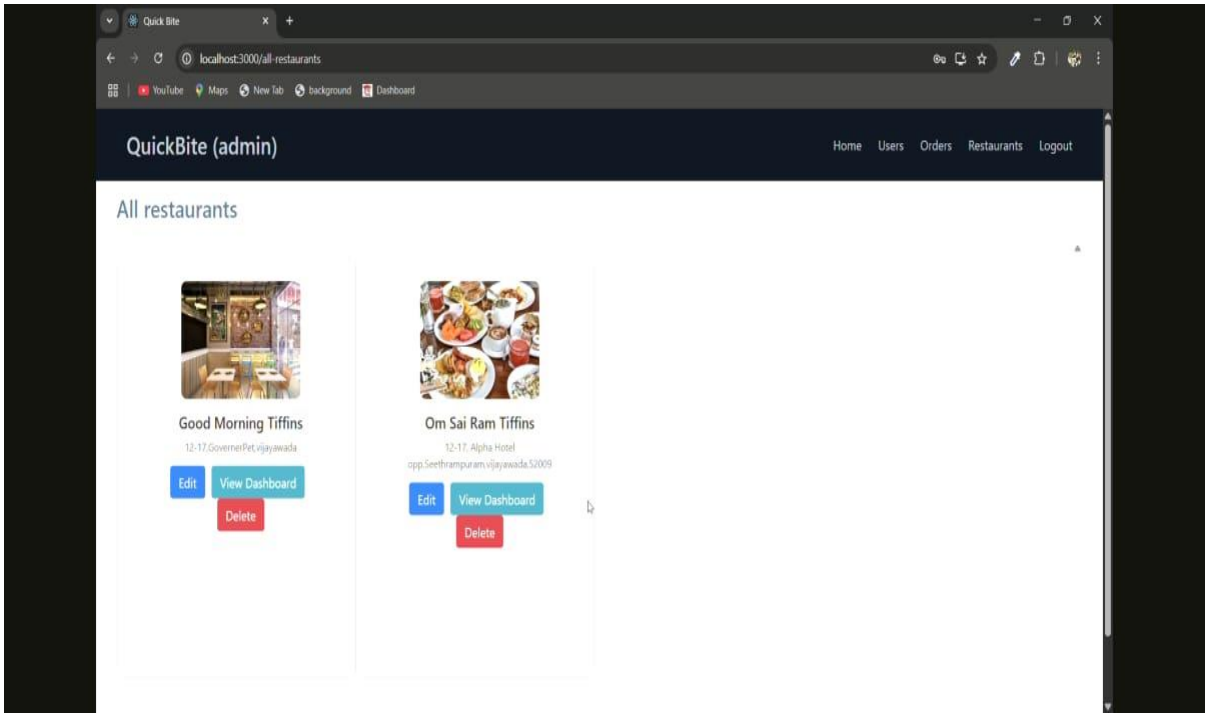
Place order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localhost:3000/all-restaurants
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QuickBite (admin)
Home
Users
Orders
Restaurants
Logout
All restaurants
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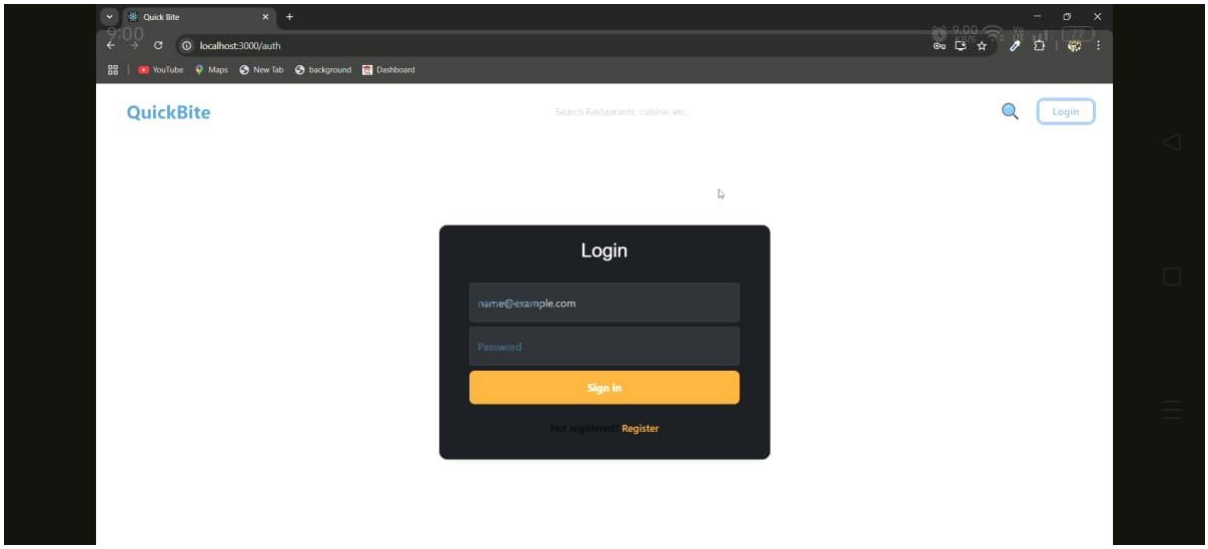

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