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Project Overview: The Full-Stack Food Delivery Application is designed to provide a convenient platform for users to order food from local restaurants. It connects customers, restaurant owners, and administrators to streamline the ordering and delivery process.

Target Audience: 1) Customers: Individuals seeking a quick and easy way to order food.

2) Restaurant Owners: Business owners looking to expand their customer base and improve order management.

CHALLENGES

RESTAURANT STAFFS

Order Management: Difficulty in processing orders quickly, especially during peak hours, which can lead to errors and delays. Customer Engagement: Limited tools for teracting with customers and receiving feedback, making it hard to improve service. Inventory Tracking: Difficulty in keeping track of available menu items, leading to potential overselling or wastage.

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CUSTOMER

Limited Options: Customers often have to search through multiple platforms or websites to find local dining options.

Inefficient Ordering Process: Long wait times for phone orders and difficulty in communicating specific requirements (e.g., dietary restrictions). Lack of Real-Time Updates: Customers are often left in the dark about their order status, leading to frustration and uncertainty.

TECH STACK

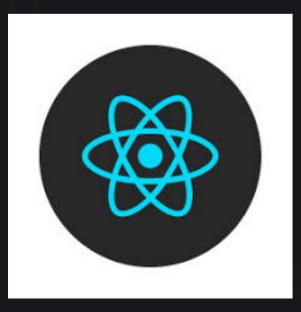
FRONTEND

Frontend: React.js

1) Dynamic UI: Creates interactive and responsive user interfaces for seamless browsing and ordering.

2) Component-Based Architecture: Promotes code reusability and easier management.

3)State Management: Efficiently updates the UI using hooks like useState,useEffect,useContext.







BACKEND

Backend: Express.js & Node.js

1) Express.js: A lightweight framework for building robust APIs, enabling quick development of server-side logic. Supports middleware for managing requests, handling sessions, and enhancing security.

2)Node.js: An asynchronous and event-driven environment that efficiently handles multiple connections. Uses JavaScript on both client and server sides, streamlining development and reducing context

3) Authentication & JWT: Implements user authentication for secure access to the application. Utilizes JSON Web Tokens (JWT) for stateless session management, allowing secure communication between client and server while maintaining user identity.

switching.

TECH STACK

DATABASE

Database: MongoDB Atlas Cloud-Based NoSQL Database: Scalable and adaptable to changing data needs. Automated Backups: Ensures data reliability and easy recovery. Flexible Data Modeling: Handles diverse data types like user

profiles and orders.

PAYMENT INTEGRATION

Payment Integration:
1.Stripe Secure Transactions: PCIcompliant encryption for sensitive
payment information.

3.Multiple Payment Options: Supports various methods for customer convenience.

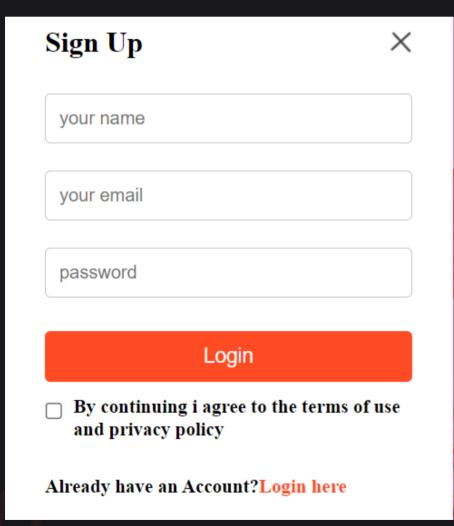
3.Easy Integration: Smooth checkout experience with real-time payment confirmation. *

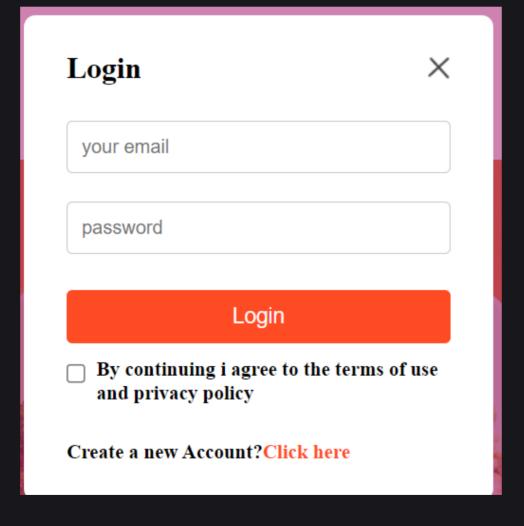


key features

AUTHENTICATION

Numbers can register for a new account or log in with their email and password if they already have an account."





a screenshot of the login and register component from our food delivery website

Secure Login: Users create accounts, securely login, and access personalized features.

JWT-Based Authentication: JSON Web Tokens are used for stateless session management, ensuring safe and efficient user sessions.

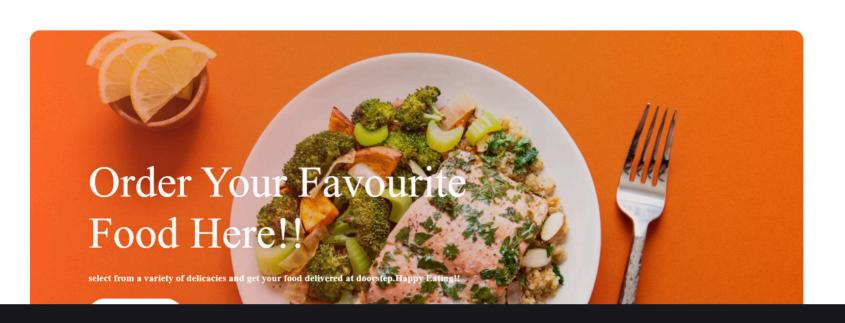


Home Menu Mobile-app Contact-us









screenshot of home page

Easy Browsing: Users can explore various restaurants and food items.

"In the Explore Menu section, users can browse items organized by category."

Explore our Menu

Choose from a diverse menu featuring delectable dishes !!!









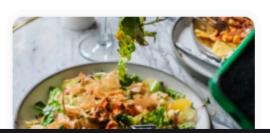
Sandwich







Top Dishes near you

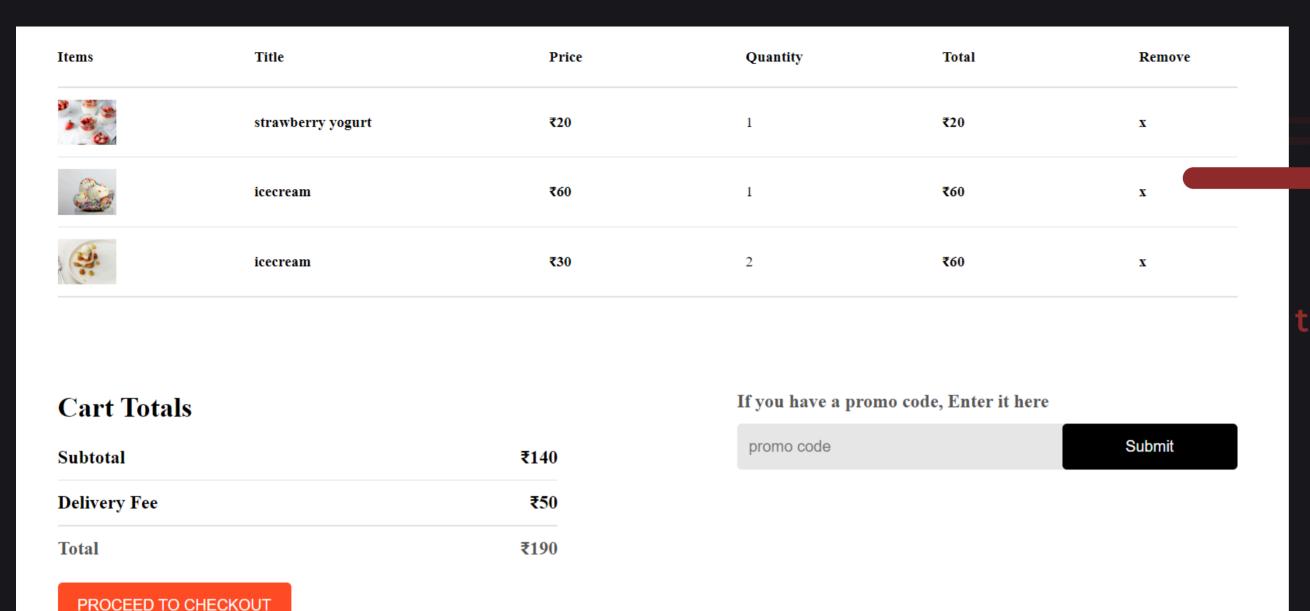












the customer can also click in this cross icon to remove any item from the cart and it will be updated automatically in the database and the total amount will also be updated

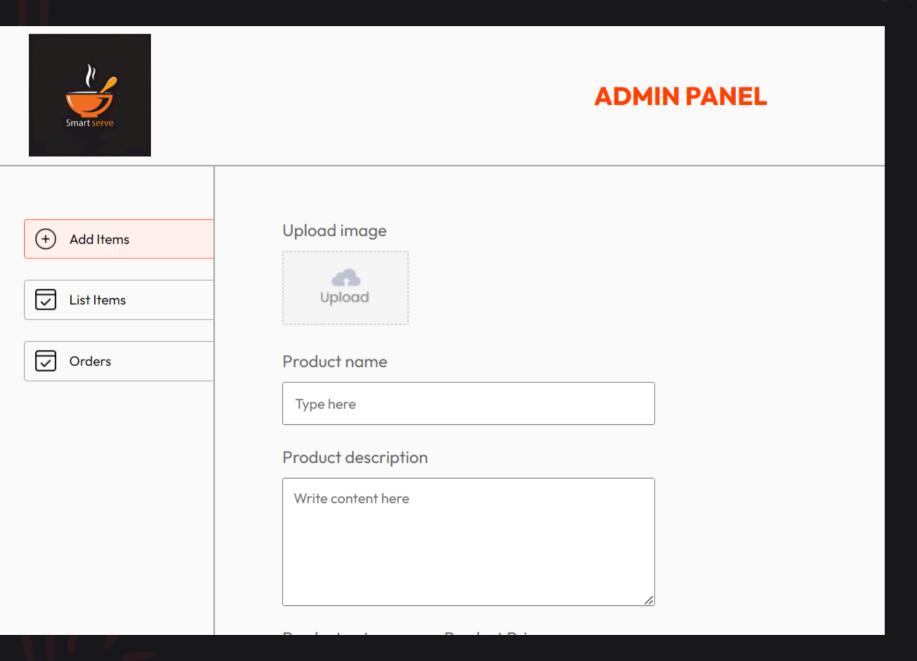
"The application includes a dynamic cart feature, allowing users to add any quantity of items. In the backend, this is managed by cartController.js, which contains functions for adding items to the cart (addToCart), removing items (removeFromCart), and viewing cart contents (viewCart). These functionalities are routed through cartRoute.js, which defines API endpoints for handling cart operations. When users view their cart, they see a breakdown of the subtotal for selected items along with delivery charges, all calculated in real-time."

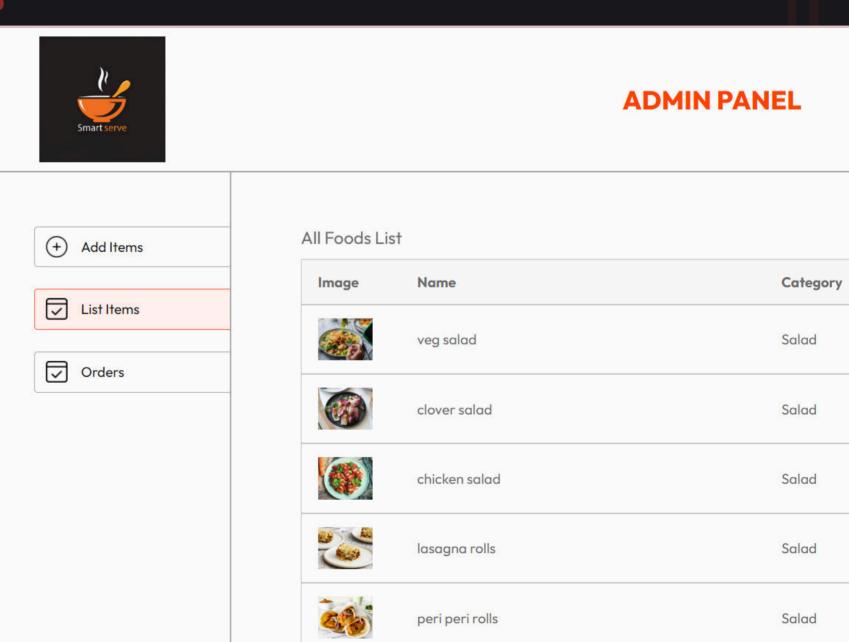




ADMIN PANEL

The Admin panel has three parts -1) add items 2) list items 3) view orders



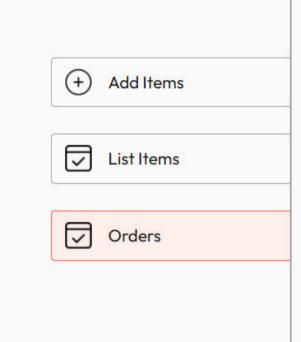


add items

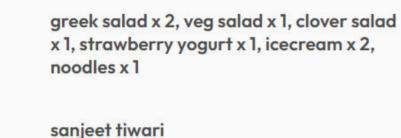
list items



ADMIN PANEL



Order Page



aaaaa, Asansol, west bengal, india, 713304 7001133901



greek salad x 1, veg salad x 1, chicken rolls x 2, strawberry yogurt x 2, icecream x 1

Items:5

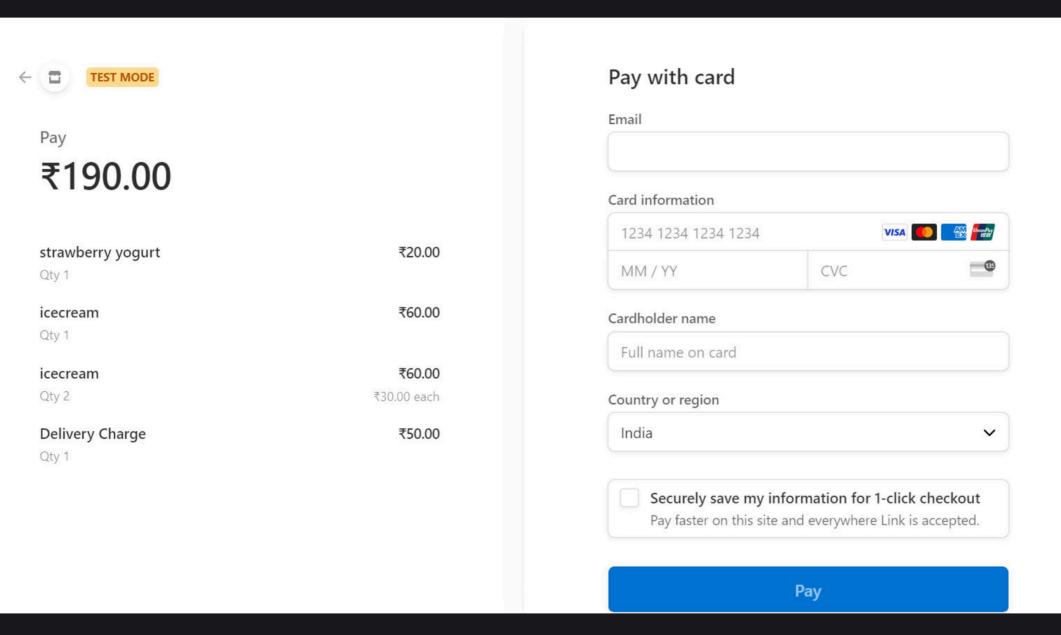
Items: 6

view orders

the view orders page displays the orders of all the customers and the admin has the option to change the order ststus. The order status can be food processing, out for delivery and dleivered. As soon as the admin changes the order status, it will be updated in themy orders page in the frontend

- In the add items page the admin can upload any image ,the product description ,name and price .The detail of the product will be then displayed in the list items pages and also in the menu of the home page .
 - the list items page displays all the detsials of all the food items the shop is currently selling .At any time the admin can remove any item from the list by clicking on the cross .

STRIPE PAYMENT INTEGRATION



Stripe payment integration in this project creates a secure checkout session for online payments. When a user places an order, a placeOrder function saves it to the database, clears their cart, and prepares line items (including a delivery charge) for Stripe. A session URL is generated to redirect users to Stripe for payment. If payment succeeds, the order is confirmed; if not, it's canceled. The placeOrderCod function handles cash on delivery orders without Stripe whilefinalizes payment status in the database, ensuring each order's integrity...

A screenshot of the Stripe checkout page << Previous

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CONCLUSION

In conclusion, the food delivery application effectively integrates modern web technologies to deliver a seamless user experience. Utilizing the MERN stack, the project successfully facilitates user authentication, order management, and real-time updates. The incorporation of Stripe for secure payment processing enhances trust and reliability, making transactions straightforward for users. With an intuitive admin panel, restaurant owners can efficiently manage orders and user interactions. Future enhancements, such as Al-driven recommendations and GPS tracking, will further improve the platform's functionality and user engagement. This project not only addresses the current demands of online food delivery but also sets a strong foundation for scalability and innovation in the food tech industry.