Project Presentation of Full Stack Engineering Project (FSE)
(22CS037)
On

Food Express

Samar (2210992233)

Nandini Kaushik (2210991958)

Ishanesh Srivastava (2210991685)

Sambhav Gupta(2210992236)

Supervised By

Mr. Rahul

Department of Computer Science and Engineering,
Chitkara University, Punjab

Introduction

Food Express is an intuitive and efficient online food ordering platform designed to streamline the process of ordering food from restaurants. With a user-friendly interface and seamless integration with multiple food vendors, the platform enhances the customer experience by providing a smooth and hassle-free ordering process.

The platform offers real-time order tracking, personalized recommendations, and secure payment options, ensuring a convenient and safe transaction experience. Utilizing modern web technologies, Food Express caters to both customers and restaurant owners by simplifying the order management system, reducing delays, and enhancing overall efficiency.
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SDLC MODEL

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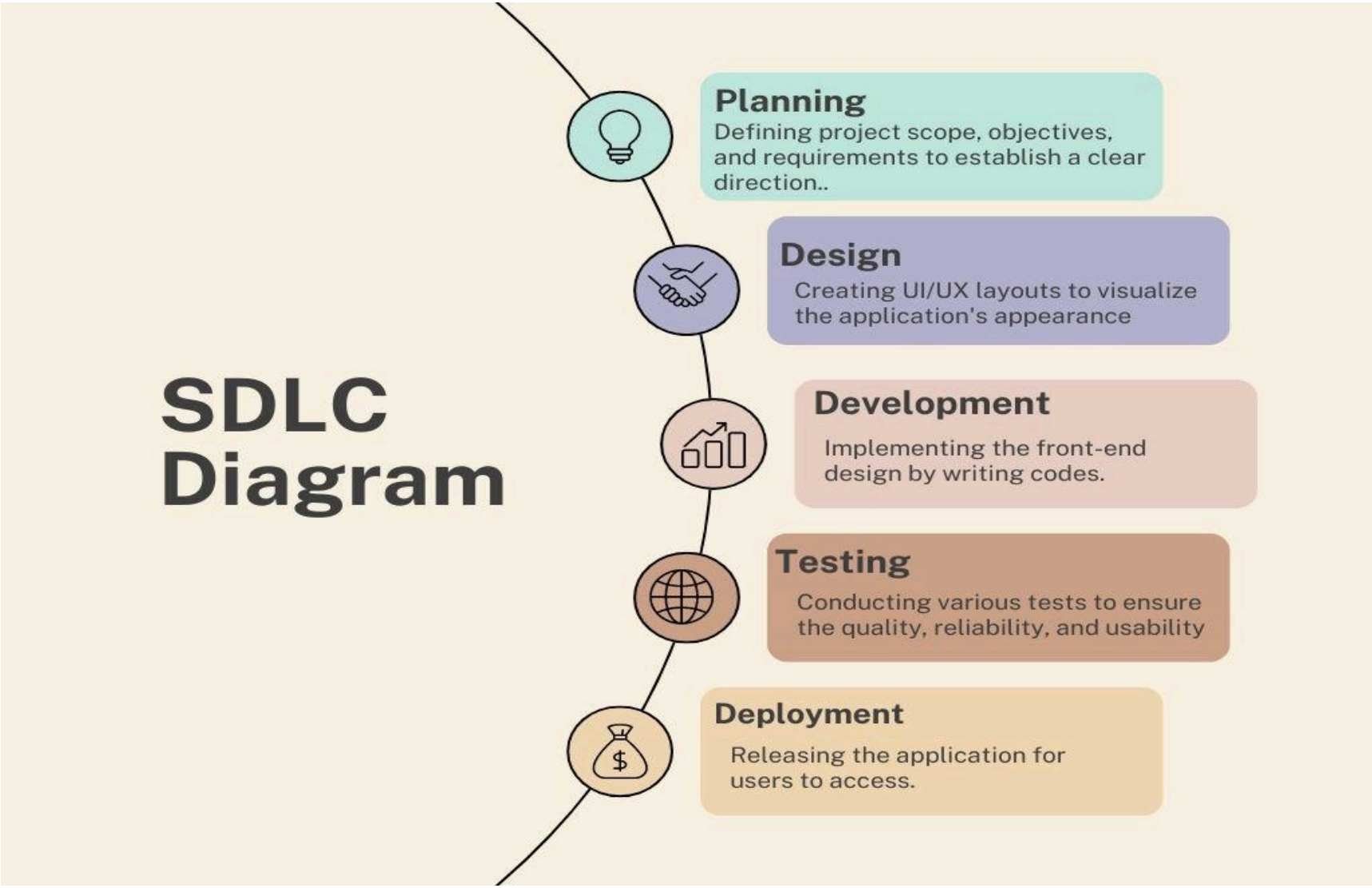

TECHNICAL DETAILS

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HTML:

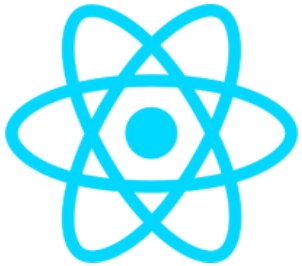
- Markup language for creating the structure of web pages.
- Utilizes elements like , <p>, <img> to organize content.
- Forms for user input, with various input types like text, password, etc.
- Semantics for accessibility and SEO.

TAILWIND CSS:

- A utility-first CSS framework for styling HTML elements.
- Simplifies layout design with classes for the box model: content, padding, border, and margin
- Provides utility classes for positioning, display, flexbox, and grid layouts.
- Enables responsive design through media query utilities.

REACTJS:

- Allows dynamic rendering of HTML content based on real-time data.
- Facilitates reusable components like headers, footers, and forms.
- Supports conditional rendering to tailor content based on user roles or data.
- Seamlessly integrates form handling for actions like login and data submissions.
- Efficiently loops through arrays to render dynamic content such as notices, events, or appointments.



TECHNICAL DETAILS

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Backend

MongoDB:

- NoSQL database designed for handling large volumes of data. Uses
- flexible, JSON-like documents to store data. Supports dynamic
- schemas, allowing easy updates to data structure. Provides
- horizontal scaling for managing distributed data. Facilitates fast
- queries and indexing for efficient data retrieval.

Express:

- Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications. Express is a
- lightweight and flexible routing framework with minimal core features meant to be augmented through the use of Expressmiddlewaremodules.

Postman: •

- Postman is a global software company that offers an API platform for developers to design, build, test, and collaborate on APIs.

Features

User-Friendly Interface: Ensuring easy navigation and a smooth experience for all users.

Real-Time Order Tracking: Keeping users informed about the order status from preparation to delivery.

Secure Payment System: Providing multiple payment options such as credit/debit cards, UPI, wallets, and COD.

Personalized Recommendations: Leveraging AI to suggest food items based on user preferences and order history.

Restaurant Management Dashboard: Helping restaurant owners manage menus, orders, and customer feedback efficiently.

Location-Based Services: Recommending nearby restaurants based on the user's location for faster delivery.

Target Audience

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•Who is this for?

1. General Users

•Individuals looking for instant messaging solutions.

2. Businesses & Enterprises

•Teams needing real-time collaboration (e.g., Slack alternative).

3. Developers & Tech Enthusiasts

•MERN stack developers learning WebSockets & real-time features.

4. Educational Platforms

•Online learning portals requiring live discussions.

User-Friendly Interface

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1. Simple & Intuitive Navigation

- A clean and minimalistic UI with clear categories (e.g., "Biryani," "Pizza," "Desserts").
- A prominent search bar with filters (e.g., cuisine, price, rating).
- Quick access to cart, profile, and order history.

2. Seamless Ordering Process

- One-click "Add to Cart" and quick-view for dish details.
- Customization options (e.g., "Extra Cheese," "Less Spicy").
- Real-time order tracking with estimated delivery time.

3. Personalized User Experience

- Saved orders & recommendations based on past purchases.
- Dark mode & light mode toggle for accessibility.
- Multi-language support for diverse users.

Languages

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MongoDB

A NoSQL database that stores data in flexible, JSON-like documents, perfect for content-rich applications like blogs.

Express.js

A minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications.

React

A powerful JavaScript library for building user interfaces, enabling the creation of dynamic, responsive, and interactive blog experiences.

Node.js

A JavaScript runtime built on Chrome's V8 JavaScript engine, allowing server-side scripting and efficient data handling.

ER Diagram

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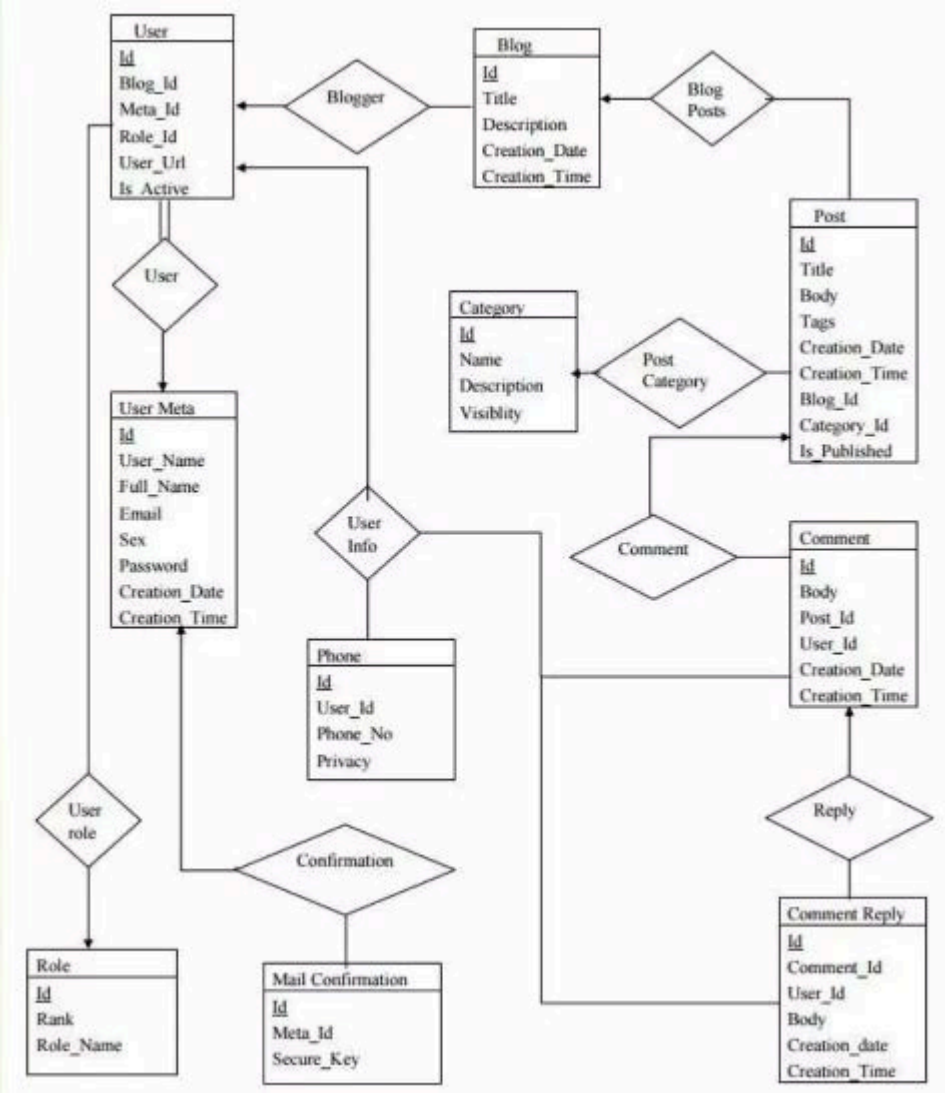

Code Snippets

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```
"name": "backend",
"version": "1.0.0",
"description": "",
"main": "server.js",
"type": "module",
▷Debug
"scripts": {
  "server" : "nodemon server.js"
},
"author": "",
"license": "ISC",
"dependencies": {
  "bcrypt": "^5.1.1",
  "body-parser": "^1.20.2",
  "cors": "^2.8.5",
  "dotenv": "^16.4.5",
  "express": "^4.19.2",
  "jsonwebtoken": "^9.0.2",
  "mongoose": "^8.4.1",
  "multer": "^1.4.5-lts.1",
  "nodemon": "^3.1.2",
  "stripe": "^15.8.0",
  "validator": "^13.12.0"
}
```

```
import foodModel from '../models/foodModel.js'
import fs from 'fs'


// add food item

const addFood = async (req,res) => {

    let image_filename = `${req.file.filename}`;

    const food = new foodModel({
        name:req.body.name,
        description:req.body.description,
        price:req.body.price,
        category:req.body.category,
        image:image_filename
    })
    try {
        await food.save();
        res.json({success:true,message:"Food Added"})
    } catch (error) {
        console.log(error)
        res.json({success:false,message:"Error"})
    }
}

// all food list
const listFood = async (req,res) => {
    try {
        const foods = await foodModel.find({});
        res.json({success:true,data:foods})
    } catch (error) {
```

Output

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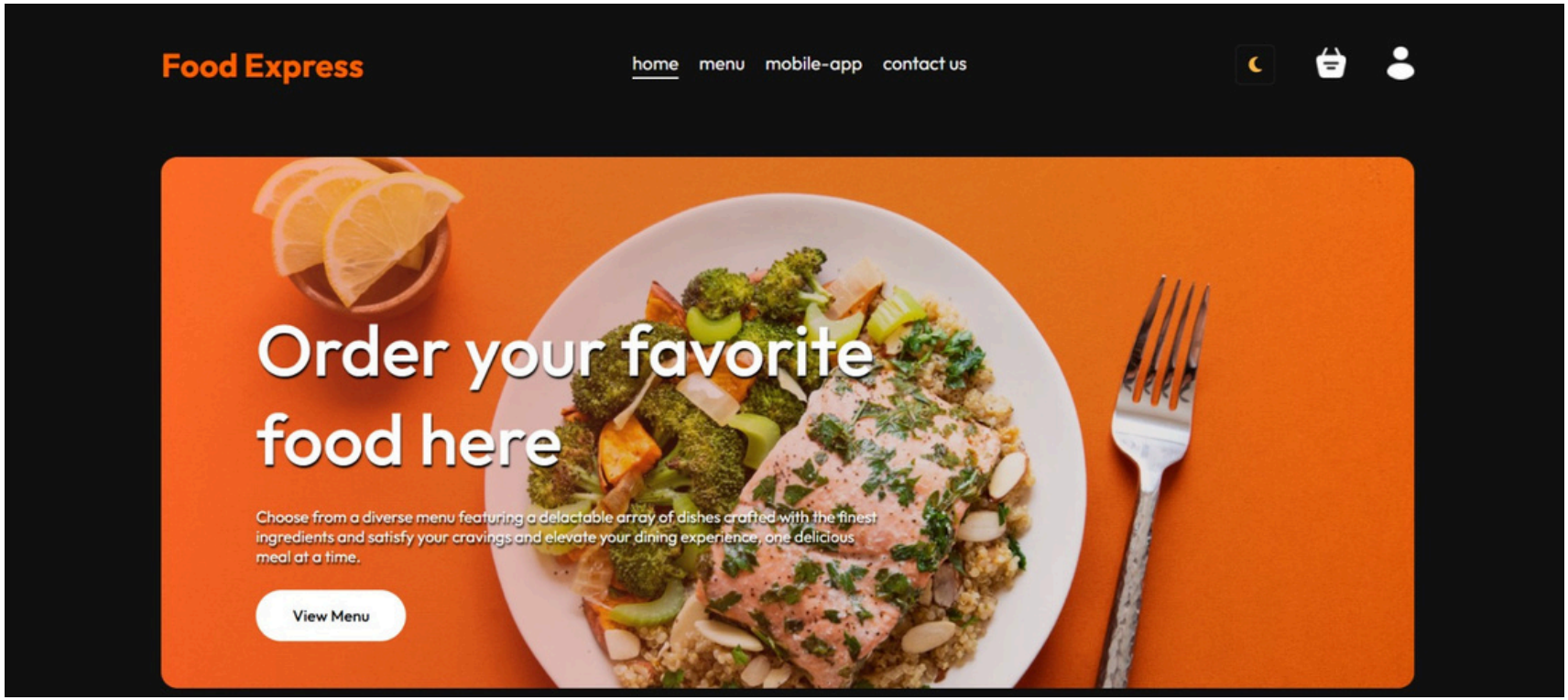

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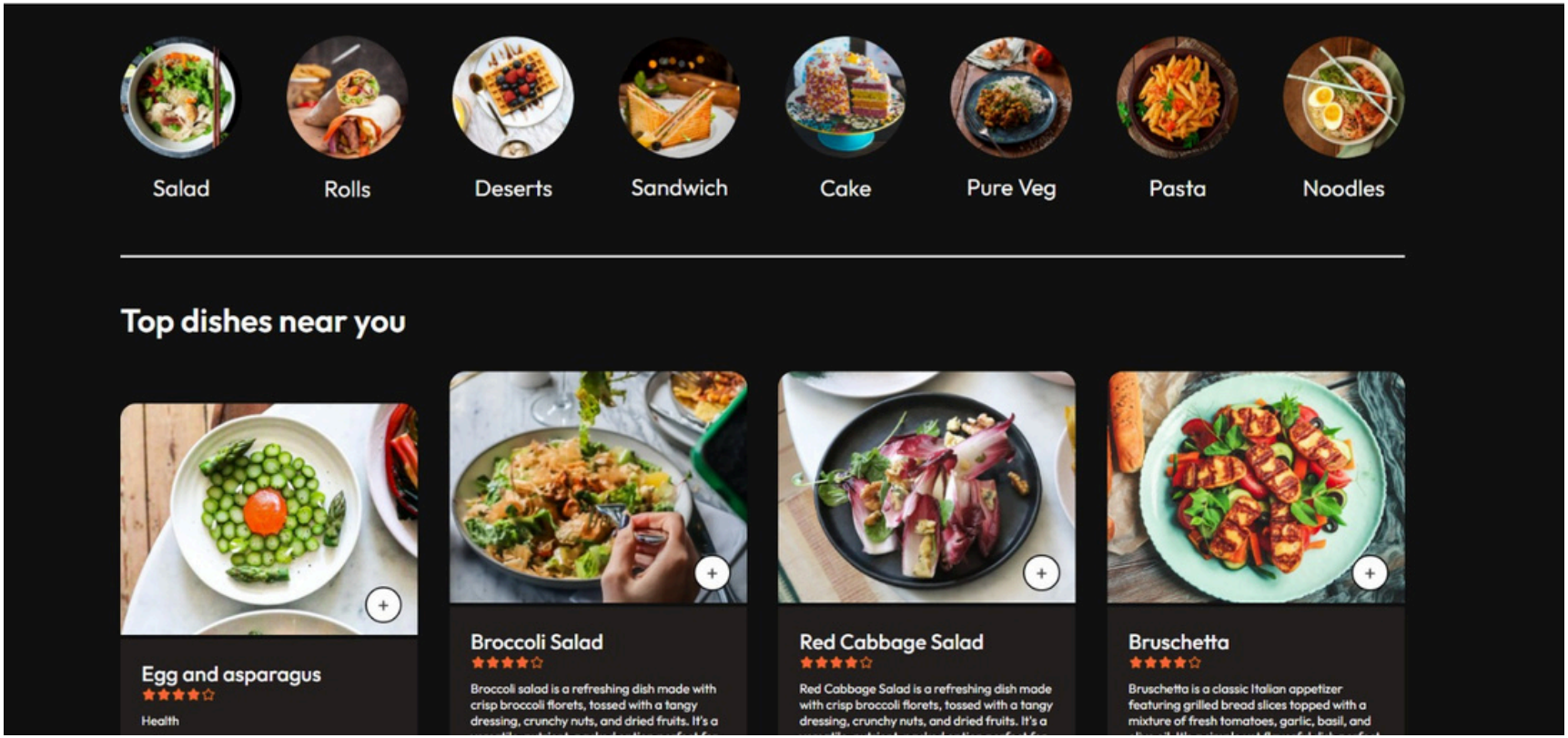

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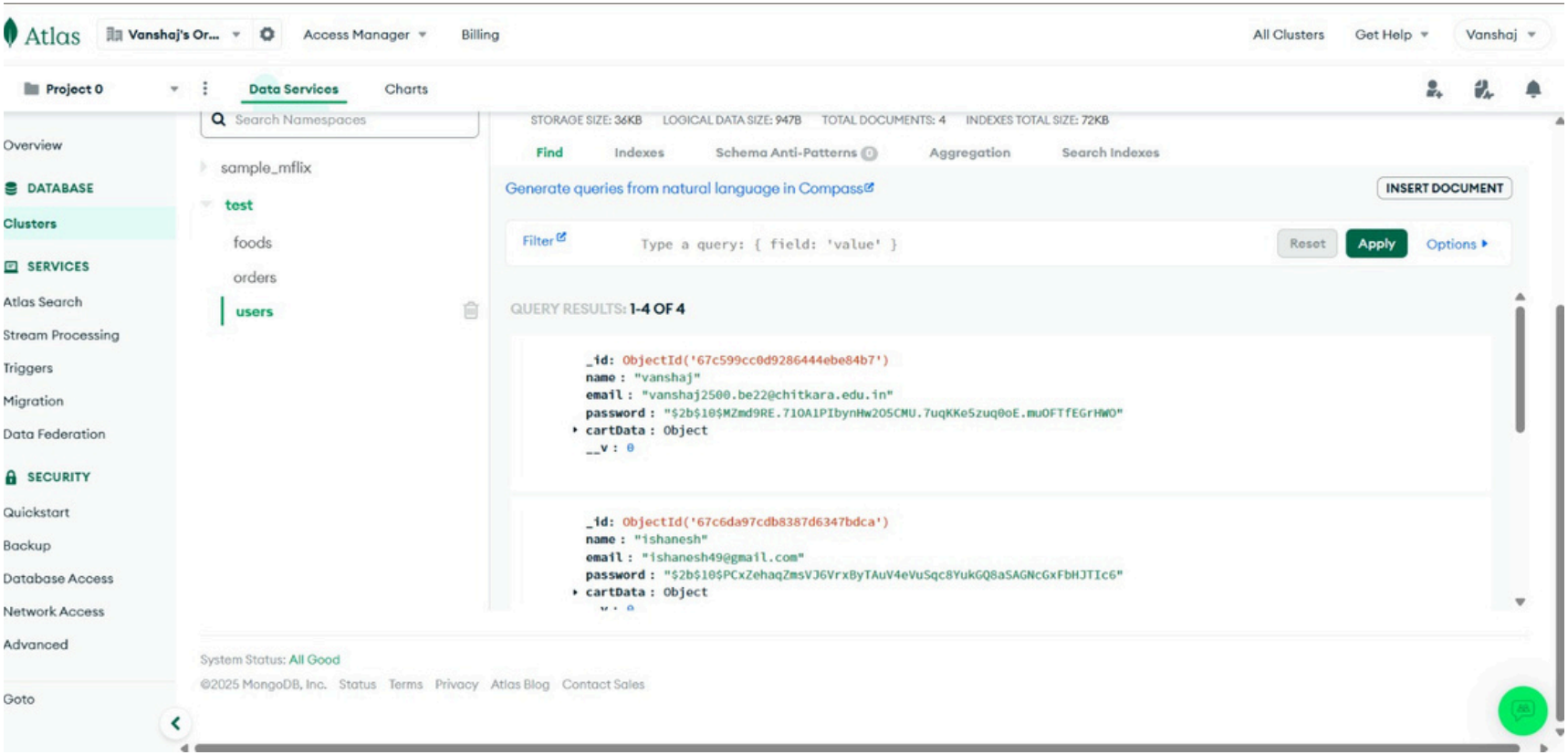

CONCLUSION

Food Express aims to revolutionize the food delivery sector by:

· Enhancing convenience by reducing waiting times and eliminating communication barriers.

· Supporting local businesses by providing them a digital platform to reach a larger customer base.

· Ensuring customer satisfaction through personalized recommendations and real-time tracking.

· Encouraging digital transactions with secure payment integrations.

· Introducing an advanced feedback system for restaurants to improve their service quality.

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