



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 Diagram



Planning

Defining project scope, objectives, and requirements to establish a clear direction..



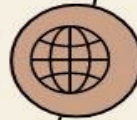
Design

Creating UI/UX layouts to visualize the application's appearance



Development

Implementing the front-end design by writing codes.



Testing

Conducting various tests to ensure the quality, reliability, and usability



Deployment

Releasing the application for users to access.

TECHNICAL DETAILS

HTML:

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



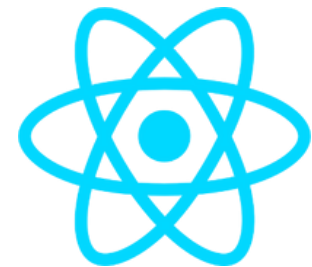
TAILWIND CSS:

- 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.



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 Express middleware modules.



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

•Who is this for?

1. General Users

- Individuals looking for instant messaging solutions.

2. Businesses & Enterprises

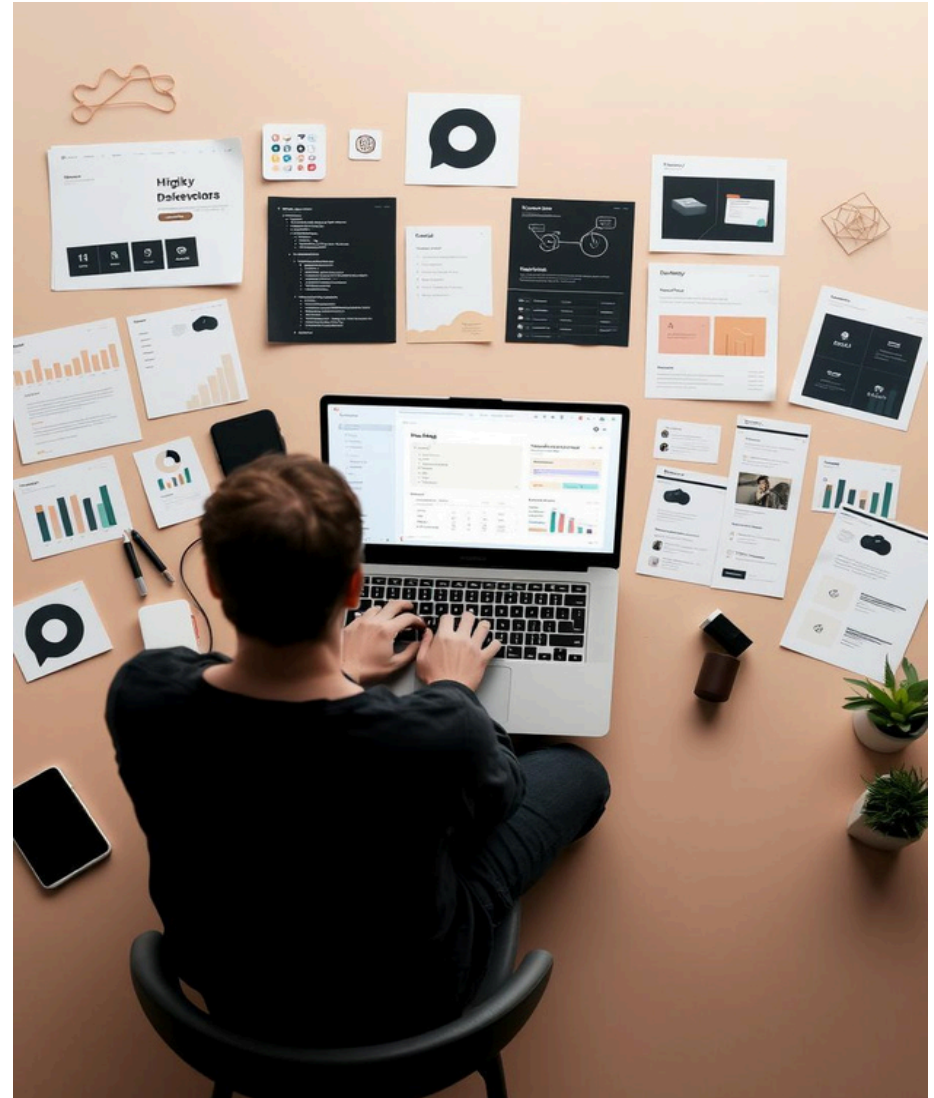
- Teams needing real-time collaboration (e.g., Slack alternative).

3. Developers & Tech Enthusiasts

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

4. Educational Platforms

- Online learning portals requiring live discussions.



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.

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.

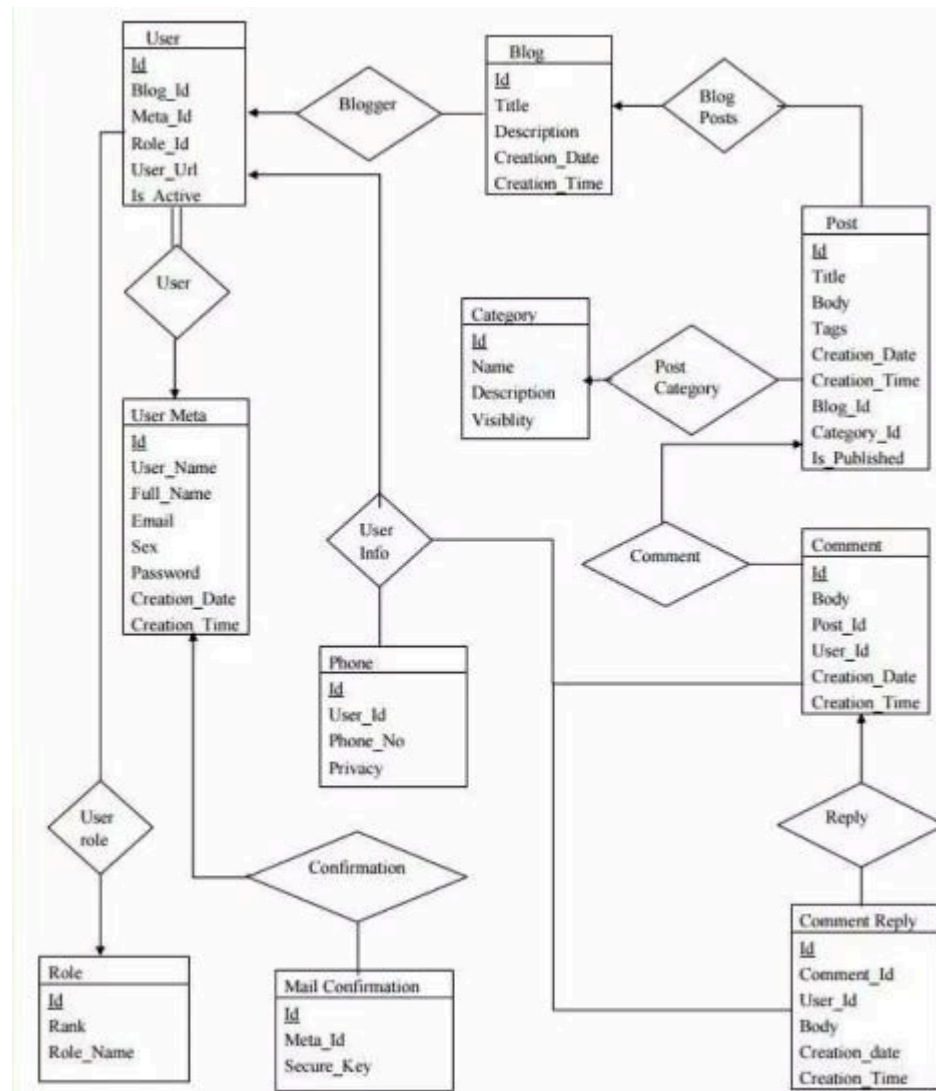
React

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



Code Snippets



```
"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) {
```



Food Express

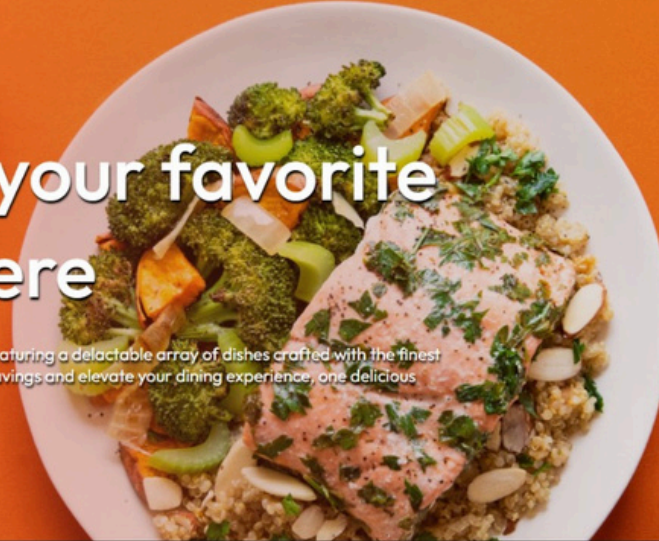
[home](#) [menu](#) [mobile-app](#) [contact us](#)



Order your favorite food here

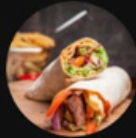
Choose from a diverse menu featuring a delectable array of dishes crafted with the finest ingredients and satisfy your cravings and elevate your dining experience, one delicious meal at a time.

[View Menu](#)





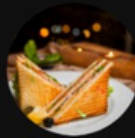
Salad



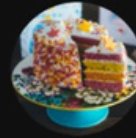
Rolls



Deserts



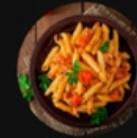
Sandwich



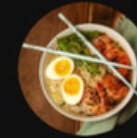
Cake



Pure Veg

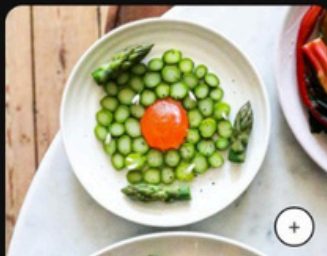


Pasta



Noodles

Top dishes near you



Egg and asparagus

★★★★☆

Health



Broccoli Salad

★★★★☆

Broccoli salad is a refreshing dish made with crisp broccoli florets, tossed with a tangy dressing, crunchy nuts, and dried fruits. It's a



Red Cabbage Salad

★★★★☆

Red Cabbage Salad is a refreshing dish made with crisp broccoli florets, tossed with a tangy dressing, crunchy nuts, and dried fruits. It's a



Bruschetta

★★★★☆

Bruschetta is a classic Italian appetizer featuring grilled bread slices topped with a mixture of fresh tomatoes, garlic, basil, and

Output



Atlas Vanshaj's Or... Access Manager Billing All Clusters Get Help Vanshaj

Project 0 Data Services Charts

Search Namespaces

- sample_mflix
- test
 - foods
 - orders
 - users

STORAGE SIZE: 36KB LOGICAL DATA SIZE: 947B TOTAL DOCUMENTS: 4 INDEXES TOTAL SIZE: 72KB

Find Indexes Schema Anti-Patterns Aggregation Search Indexes

Generate queries from natural language in Compass

INSERT DOCUMENT

Filter Type a query: { field: 'value' } Reset Apply Options

QUERY RESULTS: 1-4 OF 4

```
{
  "_id": ObjectId('67c599cc0d9286444ebe84b7'),
  "name": "vanshaj",
  "email": "vanshaj2500.be22@chitkara.edu.in",
  "password": "$2b$10$Mzmd9RE.710A1PIbynHw205CMU.7uqKKe5zuq0oE.muOFTfEGrHw0",
  "cartData": Object,
  "__v": 0
}
```

```
{
  "_id": ObjectId('67c6da97cdb8387d6347bdca'),
  "name": "ishanesh",
  "email": "ishanesh49@gmail.com",
  "password": "$2b$10$PCxZehaqZmsVJ6VrxByTAuV4eVuSqc8YukGQ8aSAGNc6xFbHJTIC6",
  "cartData": Object,
  "__v": 0
}
```

System Status: All Good

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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.





*Thank
you!*

