WORK UPDATE

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1.2 Project Overview

The Online Food Delivery System is a web-based application developed to simplify the process of ordering food from restaurants. This system is inspired by popular food delivery platforms but designed with simplified features suitable for academic implementation.

The application allows customers to browse restaurants, view menus, add items to cart, and place orders. The Admin panel manages users, restaurants, and orders efficiently. The system is developed using the MERN stack (MongoDB, Express.js, React.js, Node.js).

1.3 Objective of the Project

The main objectives of this project are:

- To design a user-friendly food ordering interface.
- To implement CRUD operations (Create, Read, Update, Delete).
- To manage orders and users through an admin dashboard.
- To understand full-stack development using MERN stack.
- To integrate frontend and backend using REST APIs.

1.4 Scope of the Project

This project covers:

- Customer registration and login
- Restaurant listing
- Menu viewing
- Add to cart functionality
- Order placement (Cash on Delivery)
- Admin monitoring system

The system does not include real-time tracking or online payment gateway integration in this simplified version.

TECHNOLOGY STACK

2.1 Frontend Technology – React.js

WORK UPDATE

React.js is used to build the user interface of the application.

Advantages:

- Component-based architecture
- Reusable UI components
- Fast rendering
- Easy routing using React Router
- Good state management

Frontend Modules:

- Login Page
- Register Page
- Restaurant Listing Page
- Menu Page
- Cart Page
- Order Confirmation Page
- Admin Dashboard

2.2 Backend Technology – Node.js & Express.js

Node.js is used as the runtime environment and Express.js is used to create APIs.

Responsibilities of Backend:

- Handle user authentication
- Manage restaurant data
- Process orders
- Connect to database
- Provide REST APIs

Example APIs:

- POST /register
- POST /login

- GET /restaurants
- POST /order
- GET /orders

2.3 Database – MongoDB

MongoDB is used as a NoSQL database.

Collections Used:

- Users
- Restaurants
- Menu Items
- Orders

Advantages:

- JSON-based storage
- Flexible schema
- Easy integration with Node.js

2.4 Architecture Overview

System Flow:

Frontend (React)
↓
Backend (Node + Express)
↓
Database (MongoDB)

The frontend sends requests to backend APIs. Backend processes the request and communicates with MongoDB to store or retrieve data.

SYSTEM MODULES

3.1 Customer Module

Features:

WORK UPDATE

- User Registration and Login
- Browse Restaurants
- View Menu Items
- Add Items to Cart
- Place Order
- View Order History