FOOD DELIVERY APPLICATION

Project Report

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Executive Summary

The Food Delivery Application is a full-stack web-based system designed to simplify the process of ordering food online. The application provides users with a centralized platform where they can browse restaurants, explore menus, add food items to a cart, and place orders seamlessly.

The project is developed using Node.js and Express.js for backend operations, EJS for dynamic frontend rendering, and SQLite as the database. Secure authentication mechanisms and session handling ensure data integrity and user privacy.

This report presents a detailed explanation of the system architecture, design approach, implementation methodology, testing, and future scope of enhancement.

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Preface

This project report documents the systematic development of the Food Delivery Application. It outlines the motivation behind the project, the tools and technologies used, and the learning outcomes achieved.

The report is intended to provide readers with a clear understanding of how modern web applications are designed and implemented using industry-standard technologies.

Introduction

The rapid growth of internet services has significantly transformed the food service industry. Online food delivery platforms have become an essential part of modern lifestyles.

This project focuses on building a functional food delivery system that demonstrates real-world application development concepts such as authentication, database integration, and session management.

About Company

The project is developed as part of an academic curriculum and simulates a real-world food delivery service provider.

The aim is to understand business workflows, customer interaction models, and technical challenges involved in building scalable web-based systems.

About Platform

Node.js provides a scalable runtime environment for executing JavaScript on the server side.

Express.js simplifies routing and middleware handling, while EJS enables dynamic HTML rendering.

SQLite is used as a lightweight relational database for managing application data.

Objectives

To design and implement a user-friendly food ordering system.

To ensure secure user authentication and session handling.

To manage restaurant, menu, and order data efficiently.

To gain practical exposure to full-stack web development.

Problem Statement

Traditional food ordering systems rely heavily on manual processes, which can lead to delays and errors.

There is a need for a digital platform that simplifies food ordering, enhances customer experience, and provides efficient data management.

Existing and Proposed Solution

Existing systems involve phone-based or manual ordering methods.

The proposed solution introduces a web-based platform that enables users to place orders online with minimal effort and improved accuracy.

Proposed Design / Model

The system follows a client-server architecture where the frontend interacts with the backend through HTTP requests.

Modular design ensures maintainability and scalability of the application.

Performance Test

The application was tested for functionality such as user login, cart operations, and order placement.

The system performed efficiently under normal usage conditions.

Learnings

Understanding Express routing and middleware.

Database operations using SQLite.

Session management and authentication.

Frontend-backend integration.

Future Scope

Integration of online payment gateways.

Development of admin and delivery dashboards.

Mobile application support.

Real-time order tracking.

Code Submission (GitHub Link)

https://github.com/skinaamuddin25/upskillCam.git

Report Submission (GitHub Link)

https://github.com/skinaamuddin25/upskillcampus/blob/main/FoodDeliveryApplication_USC_UCT.pdf

References

Node.js Official Documentation

Express.js Official Documentation

SQLite Documentation

Glossary

Node.js: JavaScript runtime for server-side execution.

Express.js: Web framework for Node.js.

SQLite: Lightweight relational database.