

**Sanjivani Rural Education Society's**  
**SANJIVANI COLLEGE OF ENGINEERING, KOPARGAON**  
**423603 (M.S.)**  
**(An Autonomous Institute)**

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**DEPARTMENT OF ELECTRONICS AND COMPUTER**  
**ENGINEERING**  
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**REPORT ON**  
**Gavkari Hotel Website**

**Group No – G7**

**Group Members-**

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## **Problem Statement**

In today's digital world, many small restaurants like Gavkari Hotel still rely on traditional methods to manage their menu, take orders, and handle customer interactions. This creates difficulties for customers in viewing menu items, placing orders easily, and getting quick service. It also makes it hard for the restaurant to manage orders, deliveries, and data efficiently.

There is a need for a user-friendly, informative, and interactive restaurant website that provides complete details about food items, categories, and allows customers to place orders and communicate easily with the restaurant.

## Introduction

The rapid growth of digital technology has made it essential for restaurants to adopt online systems for better customer service. Traditional methods of taking orders and managing menus are time-consuming, error-prone, and do not provide convenience to customers.

The Restaurant Management System for **Gavkari Hotel** is developed to provide a simple, efficient, and modern platform where users can view menu items, place orders, and make payments easily. This system acts as a bridge between customers and the hotel, making the ordering process faster and more user-friendly.

In addition to basic functionalities, the system includes features like dynamic menu display, online order placement, and an admin dashboard for managing orders and menu items. It also uses a MySQL database to store important data such as dishes, customer orders, and payment details.

The website is developed using modern web technologies and includes different sections such as Home, Menu, Order, Payment, and Admin Panel to ensure smooth navigation and a better user experience.

Overall, this project improves restaurant operations, enhances customer satisfaction, and provides an organized and efficient solution for managing food services digitally at Gavkari Hotel.

## Abstraction

The Restaurant Management System for **Gavkari Hotel** is designed as a web-based system that simplifies the interaction between customers and the restaurant. It provides a centralized platform where users can view menu items, place orders, and make payments easily.

The system consists of different modules such as the Home page, Menu page, Order page, Payment page, and Admin panel. It includes features like dynamic menu display, cart management, and order processing, allowing customers to select items and complete orders smoothly. The system efficiently manages dishes, customer orders, and payment details using a structured database.

From a technical perspective, the website is developed using HTML, CSS, and JavaScript for the frontend, while Node.js and Express.js are used for backend operations. MySQL is used as the database to store and manage data such as dishes, orders, and admin information.

Additionally, the system is designed to be flexible and scalable, allowing future enhancements such as user authentication, real-time order tracking, online payment integration, and notification systems. This ensures that the application can be improved according to future requirements.

Overall, the abstraction hides the complexity of backend processing and provides a simple and user-friendly interface, improving efficiency, accuracy, and convenience in restaurant management services at Gavkari Hotel.

## Objectives

1. To develop a user-friendly website for **Gavkari Hotel**.
2. To provide an easy way for customers to view menu items dynamically.
3. To allow customers to place food orders online easily.
4. To implement a cart system for selecting and managing food items.
5. To provide a simple payment process for order confirmation.
6. To store and manage data such as dishes and orders using a MySQL database.
7. To create an admin panel for managing menu items and customer orders.
8. To make the ordering process faster, easier, and more efficient.
9. To design a responsive system that works on different devices.
10. To create a system that can be upgraded in the future with advanced features.

# Technology Stack

## Frontend Technologies

### **HTML (HyperText Markup Language):**

Used to design the structure of the website pages such as Home, Menu, Order, Payment, and Admin Dashboard.

### **CSS (Cascading Style Sheets):**

Used for styling the website, including layout design, colors, fonts, responsiveness, and UI appearance.

### **JavaScript:**

Used to add interactivity such as menu display, cart management, order handling, theme toggle (dark/light mode), and dynamic content updates using APIs.

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## Backend Technologies

### **Node.js:**

Used as the runtime environment to execute JavaScript on the server side and handle application logic.

### **Express.js:**

Used as a web framework to create APIs for handling requests such as fetching dishes, placing orders, and managing admin operations.

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## Database

### **MySQL:**

Used to store data such as dishes, customer orders, payment details, and admin-related information.

### **SQL (Structured Query Language):**

Used to create tables, insert data, and perform database operations (CRUD).

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## Tools & Platforms

### **VS Code:**

Code editor used for writing and managing project files.

### **Node Package Manager (npm):**

Used to install and manage project dependencies (like Express).

# System Design

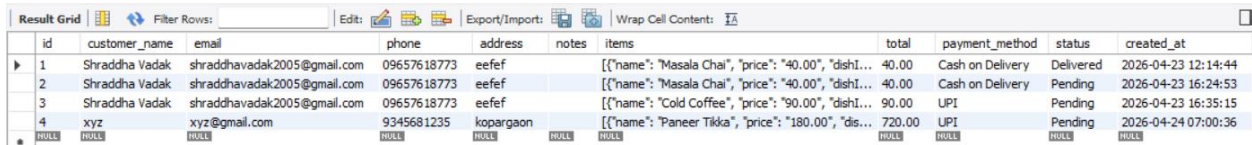
## Overview

The system design of the Restaurant Management System defines how different components of the website interact with each other. It includes the flow of data between users, frontend, backend, and database for managing menu items, orders, payments, and admin operations.

## 1. Database Table Structure

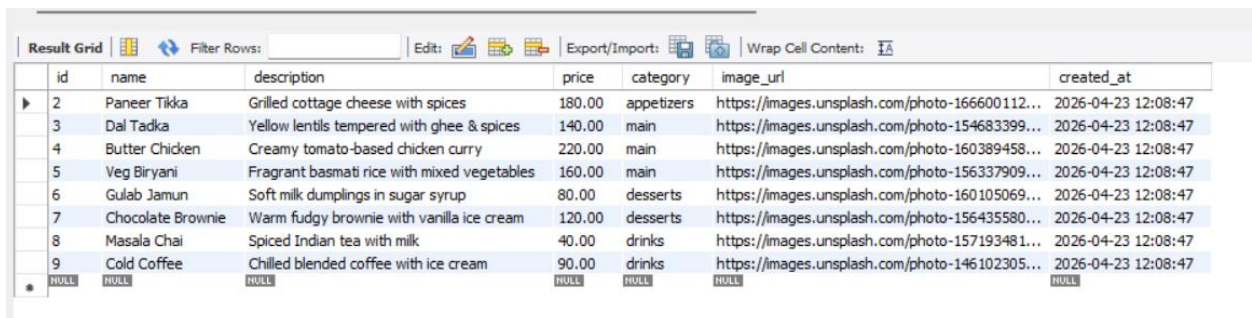
The system uses a database to store user details, orders, and contact information.

### ◆ Orders Table:



id	customer_name	email	phone	address	notes	items	total	payment_method	status	created_at
1	Shraddha Vadak	shraddhavadak2005@gmail.com	09657618773	eefef		[{"name": "Masala Chai", "price": "40.00", "dishi...	40.00	Cash on Delivery	Delivered	2026-04-23 12:14:44
2	Shraddha Vadak	shraddhavadak2005@gmail.com	09657618773	eefef		[{"name": "Masala Chai", "price": "40.00", "dishi...	40.00	Cash on Delivery	Pending	2026-04-23 16:24:53
3	Shraddha Vadak	shraddhavadak2005@gmail.com	09657618773	eefef		[{"name": "Cold Coffee", "price": "90.00", "dishi...	90.00	UPI	Pending	2026-04-23 16:35:15
4	xyz	xyz@gmail.com	9345681235	kopargaon		[{"name": "Paneer Tikka", "price": "180.00", "dis...	720.00	LPI	Pending	2026-04-24 07:00:36

### ◆ Dishes Table:



id	name	description	price	category	image_url	created_at
2	Paneer Tikka	Grilled cottage cheese with spices	180.00	appetizers	https://images.unsplash.com/photo-166600112...	2026-04-23 12:08:47
3	Dal Tadka	Yellow lentils tempered with ghee & spices	140.00	main	https://images.unsplash.com/photo-154683399...	2026-04-23 12:08:47
4	Butter Chicken	Creamy tomato-based chicken curry	220.00	main	https://images.unsplash.com/photo-160389458...	2026-04-23 12:08:47
5	Veg Biryani	Fragrant basmati rice with mixed vegetables	160.00	main	https://images.unsplash.com/photo-156337909...	2026-04-23 12:08:47
6	Gulab Jamun	Soft milk dumplings in sugar syrup	80.00	desserts	https://images.unsplash.com/photo-160105069...	2026-04-23 12:08:47
7	Chocolate Brownie	Warm fudgy brownie with vanilla ice cream	120.00	desserts	https://images.unsplash.com/photo-156435580...	2026-04-23 12:08:47
8	Masala Chai	Spiced Indian tea with milk	40.00	drinks	https://images.unsplash.com/photo-157193481...	2026-04-23 12:08:47
9	Cold Coffee	Chilled blended coffee with ice cream	90.00	drinks	https://images.unsplash.com/photo-146102305...	2026-04-23 12:08:47

## **Basic Page Flow / Navigation**

The working flow of the system is as follows:

**Home Page → Menu → Order Page → Payment Page → Order Confirmation**

**Admin Login → Dashboard → Manage Orders → Manage Menu → Analytics**

### **Explanation:**

- User visits website and views menu
- User selects items and places order
- Payment is processed
- Order data is stored in database
- User receives order confirmation
- Admin manages orders from dashboard

# Implementation / Screenshots

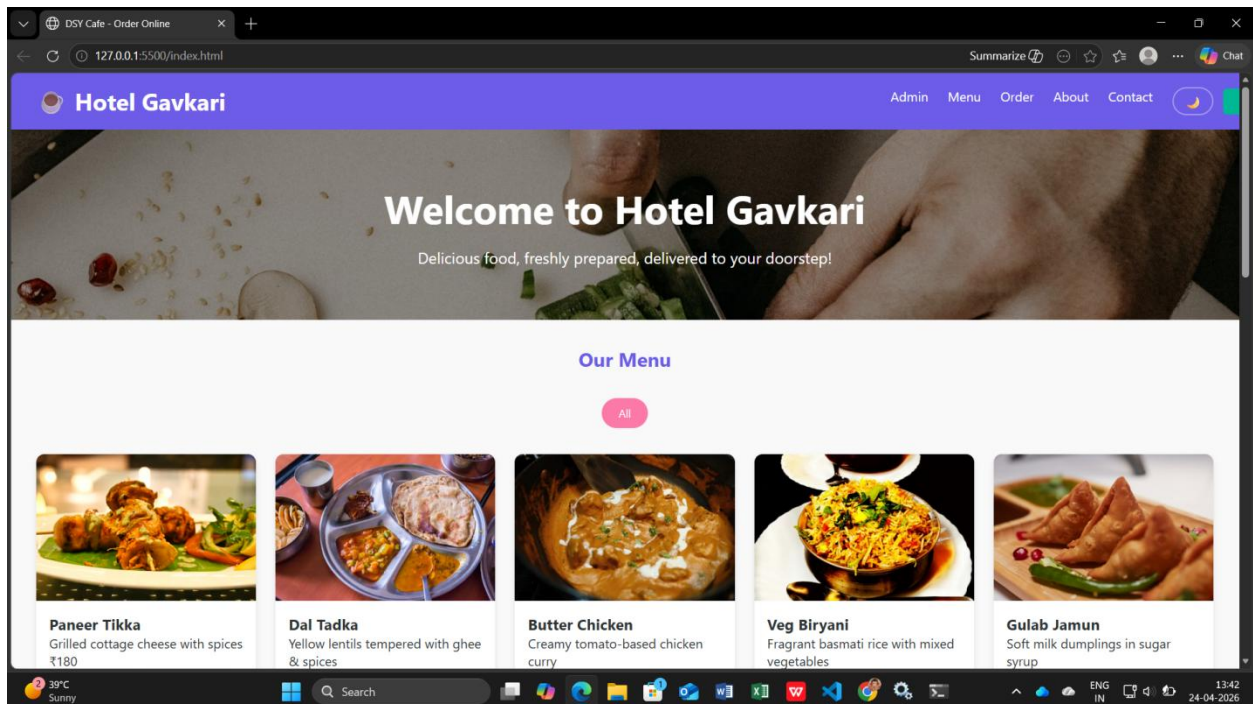
The following screenshots represent the implementation of the **Gavkari Hotel Website**, including user interface, admin panel, and system functionality.

## 🖥️ 1. Home Page

- Displays the main interface of the website

### **Caption:**

*Figure 1: Home Page*

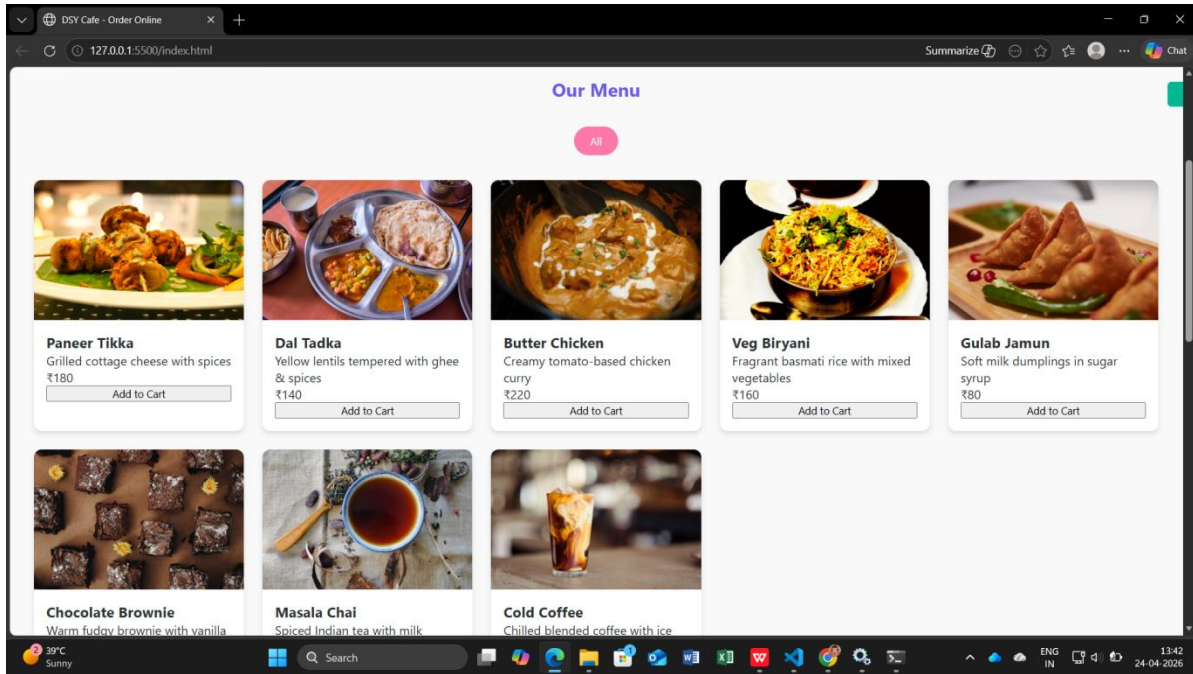


## 🖥️ 2. Our Menus

- Displays available menus
- Shows pricing and order options

### **Caption:**

*Figure 2: Menu Page*

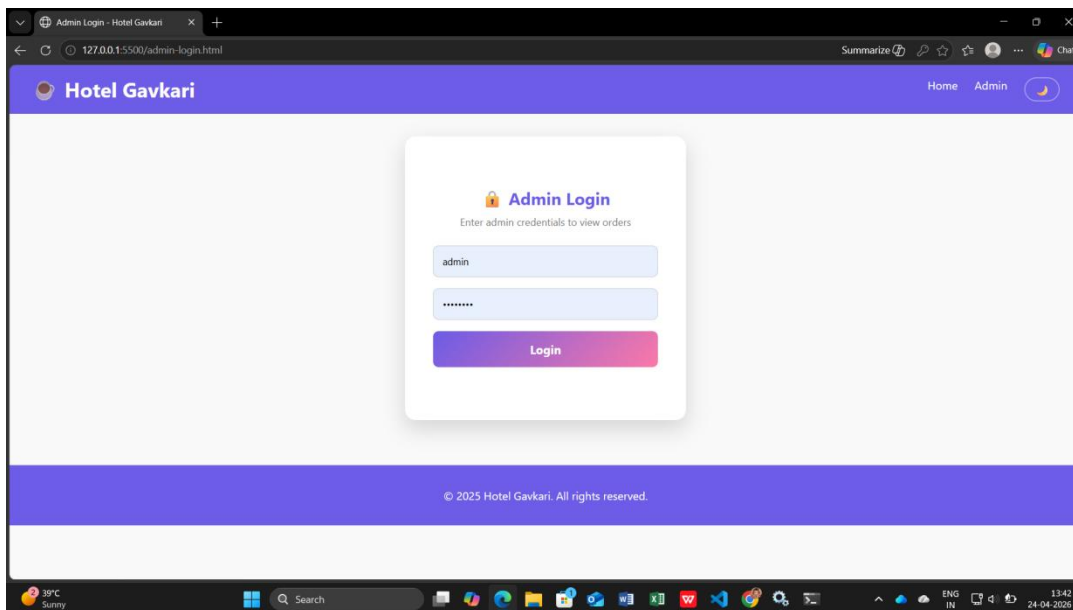


### 3. Admin Login Page

- Provides secure login for admin access
- Requires username and password

**Caption:**

*Figure 3: Admin Login Interface*

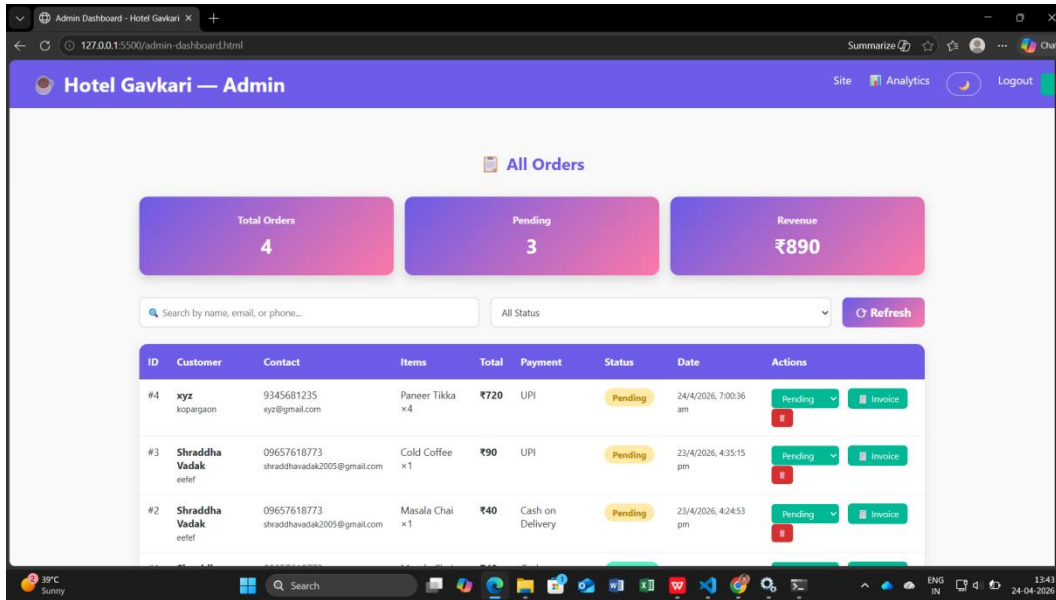


### 4. Admin Dashboard

- Displays total orders, pending orders, revenue
- Allows admin to update order status

**Caption:**

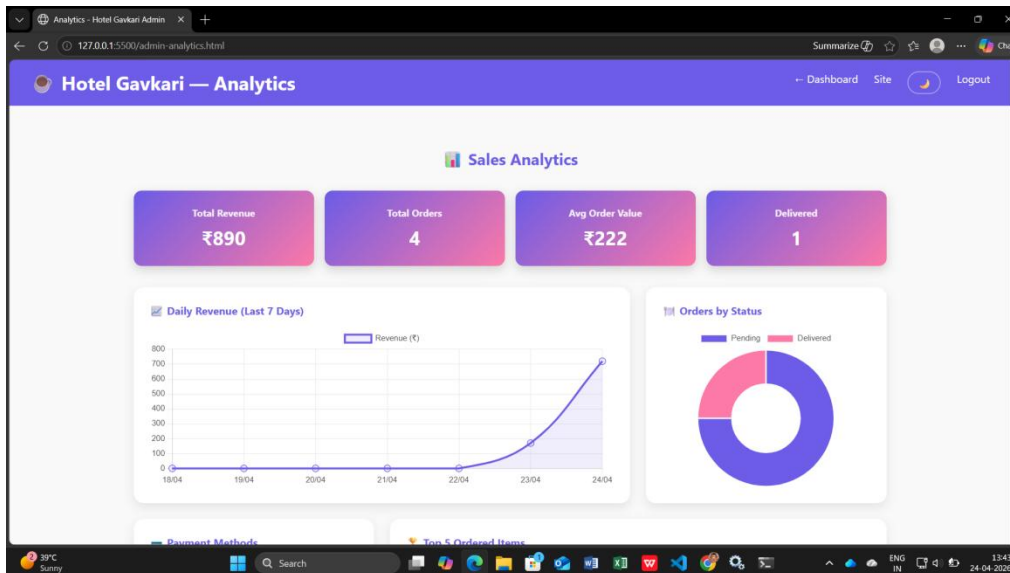
*Figure 4: Admin Dashboard showing orders and revenue details*



**5. Sales Analytics**

**Caption:**

*Figure 5: Sales Analytics*



## Emerging Technology / Feature

### **Backend Runtime**

**Feature Name:** Node.js (Sandip Jadhav)

**Why Used:**

Handles server-side operations and manages communication between frontend and database.

**How Implemented:**

Implemented using Node.js with Express in server.js to create APIs and handle requests.

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### **Admin Dashboard**

**Feature Name:** Dashboard System (Anisha Todmal)

**Why Used:**

Allows admin to manage orders, view data, and control system operations efficiently.

**How Implemented:**

Implemented using HTML, CSS, and JavaScript with backend API integration for CRUD operations.

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### **Theme Toggle**

**Feature Name:** Dark/Light Mode (Shraddha Vadak)

**Why Used:**

Improves user experience by allowing users to switch between dark and light themes.

**How Implemented:**

Implemented using JavaScript to toggle CSS classes and store user preference in localStorage.

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### **Database**

**Feature Name:** MySQL Database (Shridhar Wakte)

**Why Used:**

Stores data such as users, orders, menu items, and payment details securely.

**How Implemented:**

Connected with Node.js backend using MySQL package to perform database operations.

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## **Analytics**

**Feature Name:** Basic Analytics (Asmita Thorat)

**Why Used:**

Helps admin to track orders, sales, and system performance.

**How Implemented:**

Implemented in dashboard using JavaScript to display order data and summaries.

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## **Order Management**

**Feature Name:** Order Processing System (Ganesh Harale)

**Why Used:**

Manages customer orders from selection to payment and confirmation.

**How Implemented:**

Implemented using order.js, payment.js, and backend APIs to process and store orders.

## Conclusion

The Restaurant Management System for **Gavkari Hotel** successfully demonstrates the use of modern web technologies in developing an efficient and user-friendly platform for food ordering and management. It allows customers to easily view menu items, place orders, and complete the ordering process in a simple and organized way.

The integration of features such as dynamic menu display, cart system, admin dashboard, and payment processing improves the overall functionality and user experience of the website. These features make the system more interactive, efficient, and convenient for both customers and the restaurant management.

This project enhances the digital presence of Gavkari Hotel and simplifies the communication between customers and the restaurant. It also helps in managing orders and menu data effectively using a database system.

In the future, the system can be further improved by adding features like user login, real-time order tracking, online payment gateways, and notification systems.

Overall, the project meets its objectives and provides a strong foundation for real-world implementation in restaurant management systems.