

Restaurant Management and Reservation System

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Introduction

The Restaurant Management and Reservation System is a web-based application designed to streamline restaurant operations by handling table reservations, order management, and kitchen operations efficiently. The system integrates multiple functionalities to enhance user experience for both customers and restaurant staff.

Technologies Used

- Frontend: HTML, CSS, Bootstrap, JavaScript
 - Backend: PHP, MySQL
 - Database Management: phpMyAdmin
 - Development Environment: XAMPP, Visual Studio Code
- 2022

System Architecture

1. User Interface: The UI is built using HTML, CSS, and Bootstrap for a responsive design.
2. Backend Processing: PHP is used to handle business logic and database interactions.
3. Database: MySQL stores user data, reservations, and orders.
4. Admin Panel: Allows restaurant administrators to manage reservations, track orders, and view reports.

Features

1. Table Booking

- Customers can book tables in advance.
- Availability of tables is checked in real time.
- Confirmation emails or SMS notifications are sent upon successful booking.

2. Order Management

- Customers can place orders online.
- Orders are directly sent to the kitchen for processing.
- Payment options include cash, card, and online payment gateways.

3. Kitchen Operations

- Orders are categorized and displayed in the kitchen dashboard.
- Staff can update order statuses (preparing, ready, served).
- Integration with inventory management for stock tracking.

Installation Guide

1. Install XAMPP and start Apache and MySQL services.
2. Copy the project files to the htdocs directory.
3. Create a database named restaurant_db in phpMyAdmin.
4. Import the hotel.sql file.
5. Update db.php with database credentials.
6. Open <http://localhost/Hotel/index.php> in a web browser.
7. For Admin Panel <http://localhost/Hotel/admin/home.php>