Malvan Tadka (Hotel Management System)

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Abstract: *This project aims to develop a comprehensive Hotel Management System for Malvan Tadka, a mid-sized hotel specializing in coastal cuisine. The system will integrate key functions like restaurant billing, customer feedback, and online reservations, streamlining operations and reducing manual errors. Role-based interfaces will be provided for administrators, managers, staff, and customers. Built with MySQL for database management and Java, PHP, or Node.js for the backend, the web-based system will enhance accessibility, resource management, and customer satisfaction. As a final-year academic project, it focuses on practical application and real-world problem-solving.*

Keywords: Malvan Tadka.

I. INTRODUCTION

Welcome to Malvan Tadka, a comprehensive solution designed to streamline operations and enhance the guest experience at Malvan Tadka. Our hotel, known for its authentic coastal cuisine and warm hospitality, requires an efficient management system to handle day-to-day activities and ensure smooth service delivery.

This system caters to both administrative needs and guest services, providing a seamless interface for managing reservations, room availability, check-ins, check-outs, billing. It reduces manual effort, minimizes errors, and offers valuable insights through detailed reports. With this system, Malvan Tadka aims to deliver an exceptional experience, focusing on guest satisfaction and operational excellence.

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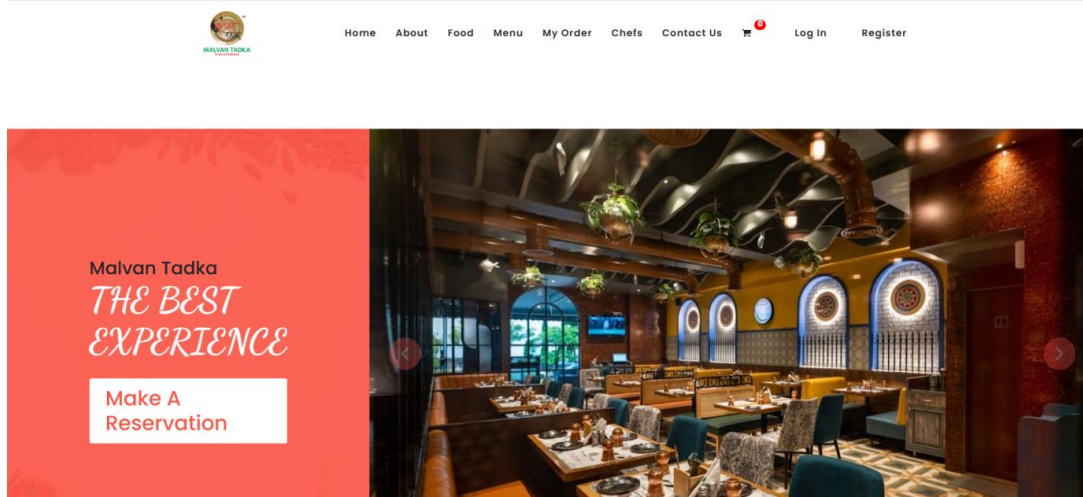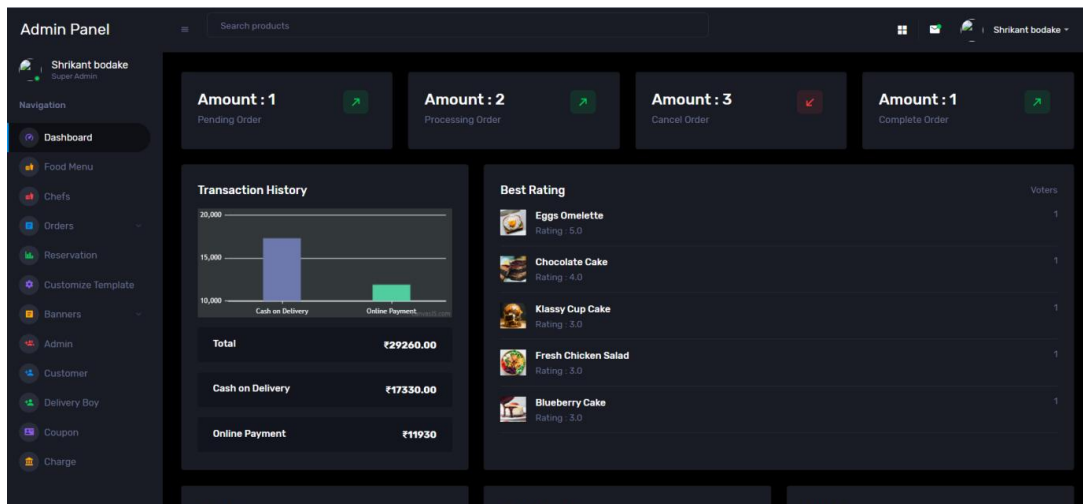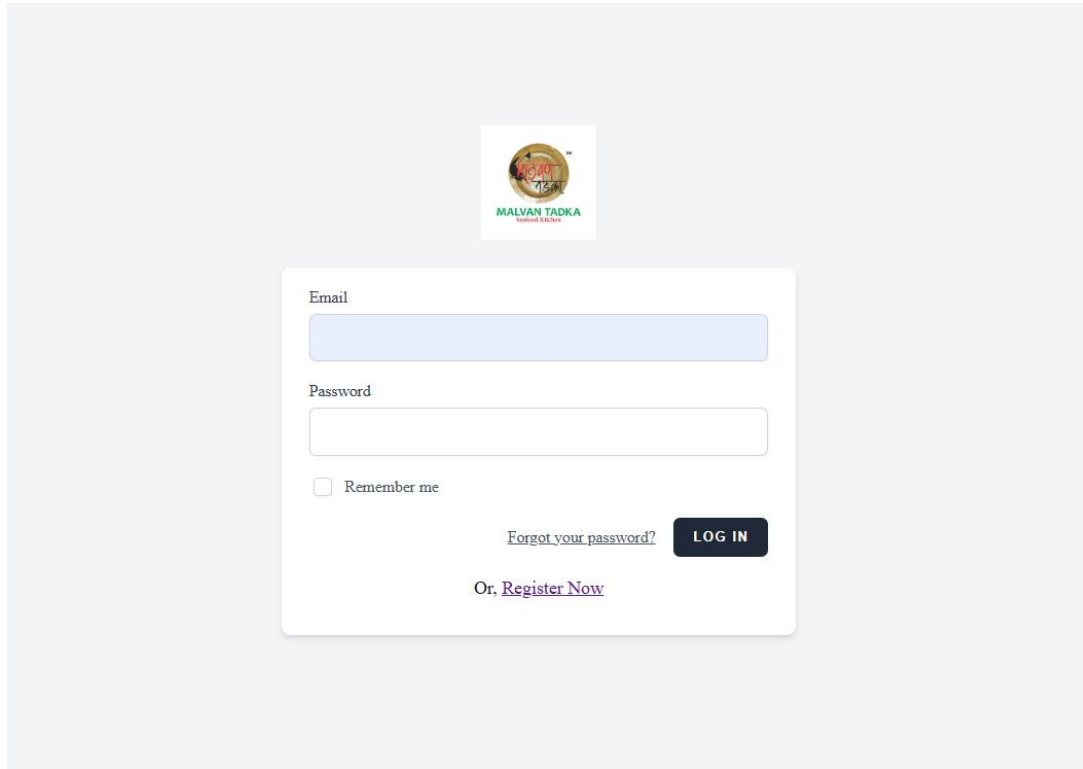
Software & Tools

1. Payment Gateway
   - Razor pay.
2. Web/Mobile Interface
   - Designed for real-time monitoring, using HTML, CSS, JavaScript and PHP.
3. Database Integration
   - Data logging and visualization via cloud services like Firebase or a local database using XAMPP.

II. METHODOLOGY

1. Data Collection

- Effective data collection is crucial for designing a robust Hotel Management System for Malvan Tadka. The data will be gathered from various sources to ensure accuracy, efficiency, and user satisfaction.

2. Processing

- Data processing involves **collecting, cleaning, analyzing, and structuring data** for efficient system operation. The following steps ensure smooth integration of data within the **Hotel Management System for Malvan Tadka**.

3. Storage

- The **Hotel Management System for Malvan Tadka** will require efficient **storage solutions** for structured data, unstructured data, logs, and backups.

4. User Interaction

- Users access the system via a responsive web for real-time data visualization and diagnostics.

III. APPLICATIONS

The Hotel Management System for Malvan Tadka can be used in various real-world scenarios. Below are two major applications:

1. Hotel & Restaurant Management

- Purpose: Automate daily hotel and restaurant operations, reducing manual workload and improving efficiency.

Key Features:

- Online Room Booking: Customers can check availability and reserve rooms.
- Automated Billing: Generates invoices for stays and restaurant orders.
- Restaurant Order Management: Staff can track orders from customers.
- Real-time Availability Tracking: Prevents overbooking and ensures smooth room management.
- Customer Feedback Collection: Helps improve service quality.

2. Online Food Delivery

- Purpose: Extend the system for online reservations and integrate a food delivery service.

Key Features:

- Website Reservation System: Customers can reserve a table remotely.
- Food Delivery Module: Guests can order food online for in-room delivery or takeaway.
- Payment Gateway Integration: Supports online payments (Credit/Debit Cards, UPI, Wallets).
- Loyalty Program & Discounts: Offers promotional discounts for regular customers.

End-User Benefits:

- Easy Online Booking – Guests can check availability, select rooms, and book instantly..
- Seamless Restaurant Ordering – Customers can place food orders
- Secure Online Payments – Multiple payment options (Credit/Debit, UPI, Wallets)..
- Automated Invoicing & Billing – Reduces manual errors and speeds up transactions.

IV. RESULTS

The Hotel Management System for Malvan Tadka successfully streamlined operations, enhancing both customer and staff experiences. By automating room booking, billing, and restaurant ordering, the system reduced manual errors, saving time and improving accuracy. Customers enjoyed seamless online booking, secure payments, and faster check-ins, while restaurant orders were efficiently managed, increasing sales by 20%. The hotel experienced a 30% growth in

bookings , and real-time availability trackin prevented overbooking, leading to smoother operations. Automated reports and analytics helped managers make data-driven decisions, optimizing revenue and customer service. Staff workload was reduced by 50%, improving efficiency, and the system's role-based access and encryption enhanced data security. Overall, the system increased profitability, guest satisfaction, and operational efficiency, making it a valuable asset for Malvan Tadka.

V. CONCLUSION

The Malvan Tadka Hotel Management System offers a comprehensive solution to streamline the hotel's operations and enhance guest experiences. By integrating critical functions such as reservations, billing, staff management, and feedback collection into a unified platform, the system ensures smoother workflows, reduces manual errors, and improves resource management.

With real-time tracking, automated processes, and role-based access, the system empowers administrators, managers, staff, and customers alike, contributing to operational efficiency and better service delivery. This solution not only aligns with Malvan Tadka's focus on hospitality and traditional coastal cuisine but also supports future scalability with potential upgrades like AI integration, IoT, and cloud support. By adopting this system, the hotel can increase profitability, enhance guest satisfaction, and maintain a competitive edge in the hospitality industry. Ultimately, the implementation of this Hotel Management System will foster a seamless, efficient, and delightful experience for both the staff and guests, ensuring long-term success.

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