



Online Hotel Management System

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Course: Software Engineering

Tools: PHP, MySQL, Apache

Project Idea Summary

Web-Based Booking Application

A comprehensive system for general-purpose hotels.

Efficient Room Management

Supports Single/Double AC and Non-AC room types.

Streamlined Operations

Simplifies booking and administration for hotels.

User Features



Room Browsing

View available rooms and their details.



Online Booking Form

Simple and intuitive booking process.



Optional Payment

Flexible payment integration.



Confirmation Alerts

Email/SMS booking confirmations.



Feedback Submission

Direct channel for user reviews.

Admin Features

1

Admin Panel

Centralized control over bookings and data.

2

User Management

Manage user accounts and permissions.

3

Booking Oversight

View, modify, and manage all reservations.

4

Content Management

Update room details and pricing.

5

Feedback Review

Access and respond to customer feedback.

Tools & Technologies

Frontend	HTML, CSS, JavaScript	User Interface	Responsive design
Backend	PHP	Server-side logic	Handles requests, database interaction
Database	MySQL	Data Storage	Relational structure
Web Server	Apache (XAMPP/WAMP)	Hosting	Local development environment
Development Tools	VS Code, phpMyAdmin	IDE & DB Management	Code editing, database administration

Database Design



- **Core Tables**

ADMIN, ROOMS (Single/Double AC/Non-AC), PAYMENT, CONTACT, FEEDBACK.

- **Relational Schema**

Ensures data integrity and relationships.

- **Keys Used**

Primary and Foreign keys for data linkage.

- **Efficiency**

Optimized for quick data retrieval and storage.

Challenges & Learnings

Development Challenges

Data validation complexities, secure payment integration.

Problem Solving

Enhanced debugging skills and error handling.

Key Learnings

Database normalization, backend security practices, responsive design.

Teamwork

Improved collaborative development workflows.

Conclusion & Future Scope



Benefits Achieved

Ease of booking, admin efficiency, robust data integrity.



Future Improvements

Mobile app development, booking cancellation feature, advanced analytics.

