

# 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.



#### **Confirmation Alerts**

Email/SMS booking confirmations.



### **Online Booking Form**

Simple and intuitive booking process.



### **Optional Payment**

Flexible payment integration.



### **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

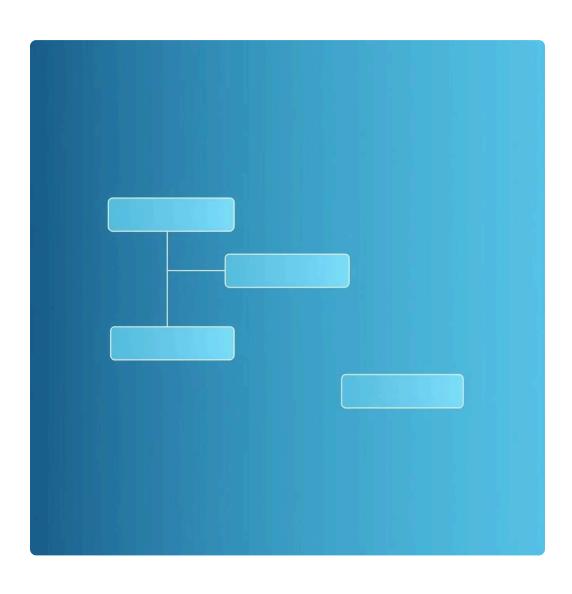
### **Feedback Review**

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.

