

# Online Hotel Management System

Popy Rani Talukdar & Ruji Akther Course: Software Engineering Tools: PHP, MySQL, Apache

[](https://gamma.app/?utm_source=made-with-gamma)

# 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

## Admin Panel

**1**

Centralized control over bookings and data.

## User Management

**2**

Manage user accounts and permissions.

## Booking Oversight

**3**

View, modify, and manage all reservations.

## Content Management

**4**

Update room details and pricing.

## Feedback Review

**5**

Access and respond to customer feedback.

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# 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.

# Cha lenges & Learnings

## Development Challenges

Data validation complexities, secure payment integration.

## Key Learnings

Database normalization, backend security practices, responsive design.

## Problem Solving

Enhanced debugging skills and error handling.

## 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.