

**SOFTWARE REQUIREMENTS SPECIFICATION (SRS) HOTEL MANAGEMENT SYSTEM**

**1. PROJECT OVERVIEW** The Hotel Management System is a web-based platform built with PHP and MySQL that automates hotel operations such as booking, customer check-in/check-out, room management, billing, and reporting. The goal is to minimize manual processes and provide a seamless experience for customers and hotel administrators.

**2. OBJECTIVES**

- Simplify room booking and reservation process.
- Track customer details, payments, and stay duration.
- Allow hotel staff to manage rooms and availability efficiently.
- Generate billing receipts automatically.
- Provide admin-level control for managing users, rooms, and reports.

**3. FUNCTIONAL REQUIREMENTS**

- User registration and authentication.
- Room listing and availability check.
- Booking management (create, modify, cancel).
- Payment management.
- Room check-in/check-out tracking.
- Admin dashboard for reporting and analytics.

**4. NON-FUNCTIONAL REQUIREMENTS**

- Responsive user interface.
- Secure data handling (password hashing, validation).
- Reliable and scalable PHP backend.
- MySQL database with relational integrity.
- User-friendly navigation and error handling.

**5. USER ROLES**

1. Admin - Manage all rooms, bookings, and users.
2. Receptionist / Staff - Handle check-in/check-out.
3. Customer - Browse available rooms.

- Make reservations and payments online.

**6. DATABASE SCHEMA (MySQL) Tables:**

- users(user\_id, name, email, password, role)
- rooms(room\_id, room\_type, price, status)
- bookings(booking\_id, user\_id, room\_id, check\_in, check\_out, status)
- payments(payment\_id, booking\_id, amount, payment\_date, method)

Sample: users: (1, 'John Doe', 'john@mail.com', 'hashed\_pass', 'customer') rooms: (101, 'Deluxe', 150, 'Available') bookings: (1, 1, 101, '2025-02-12', '2025-02-15', 'Confirmed')

**7. DIRECTORY STRUCTURE** hotel\_management/

- index.php
- login.php
- register.php
- dashboard.php
- admin/
- add\_room.php
- manage\_users.php
- view\_reports.php
- staff/
- checkin.php
- checkout.php
- customer/
- book\_room.php
- view\_booking.php
- includes/
- db\_connect.php
- functions.php
- assets/
- css/
- js/
- images/
- README.md

**8. MVP FEATURES**

- User authentication.
- Room listing and booking.
- Admin dashboard.
- Check-in/check-out management.
- Payment recording.

**9. ADVANCED FEATURES**

- Email notifications for bookings.
- PDF invoice generation.
- Data analytics for occupancy trends.
- Integration with external payment gateways.

**10. USER JOURNEY**

1. Customer visits homepage → views available rooms.
2. Registers or logs in → selects room → confirms booking.
3. Staff handles check-in/check-out and updates room status.
4. Admin views all activities and generates reports.

**11. TECHNOLOGY STACK**

Frontend: HTML5, CSS3, Bootstrap, JavaScript  
Backend: PHP 8+  
Database: MySQL  
Server: Apache (XAMPP/WAMP)  
Version Control: Git/GitHub

This document provides a foundational structure for developing a Hotel Management System using PHP and MySQL.