

Software Requirements Specification (SRS)

Project: Hotel Reservation System

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1.1 Purpose

The purpose of this project is to develop a Hotel Reservation System to automate the booking process for a 50-room hotel. The system will help reception staff manage room availability, customer records, and billing efficiently, reducing errors and improving customer satisfaction.

1.2 Scope

This system will be a local desktop-based application for hotel front-desk operations. It will:

Record and manage room details.

Allow booking and cancellation of rooms.

Maintain guest records.

Generate bills and reports.

It will not include online bookings in this version, but the design will allow adding that feature later.

1.3 Objectives

Eliminate double-booking errors.

Maintain an up-to-date list of available rooms.

Provide fast and accurate billing.

Keep a searchable database of guests.

2. Room Inventory

Room Type	Number of Rooms	Price per Night (PKR)	Description
Single	20	5,000	One bed, suitable for 1 adult.
Double	20	8,000	Two beds, suitable for 2 adults or family.
Suite	10	15,000	Luxury room with extra space and facilities.

Total Rooms: 50

3. Functional Requirements

3.1 Room Management

Add, update, delete room details.

Set room status: Available / Booked.

3.2 Customer Management

Add and store guest details: Name, CNIC/ID, contact number, address.

3.3 Booking Module

Search available rooms by date and type.

Book rooms for specific dates.

Prevent booking if the room is already taken.

3.4 Cancellation Module

Cancel a booking with record.

Automatically mark the room as Available again.

3.5 Billing

Calculate total cost (per night × number of nights).

Option to add taxes or discounts.

Print a bill or receipt.

4. Non-Functional Requirements

Usability: Easy-to-use interface for reception staff.

Performance: Search and booking should happen instantly.

Security: Prevent unauthorized access to booking records.

Reliability: Should work without internet.

5. Data Requirements

Room Number

Room Type (Single, Double, Suite)

Price per Night

Availability Status

Customer ID

Name

CNIC/ID

Contact Number

Address

Booking Table

Booking ID

Customer ID

Room Number

Check-in Date

Check-out Date

Total Cost

6. System Flow

1. Search for available rooms.
2. Select room → enter guest details → confirm booking.
3. Room status changes to Booked
4. On checkout, generate bill and set room to Available.