

1. Authentication & User Management

Login System: Different user types (Customer, Receptionist, Staff, Admin) with role-based access.

Registration: New users can sign up as customers with validation (email, password strength, phone number).

Password Recovery: Forgot password functionality with email/phone verification.

Profile Management: Users can view/edit their details (name, contact, password).

2. Customer Features

Room Booking:

Browse available rooms with filters (price, type).

View room details (images, amenities, price).

Select dates and check room availability.

Confirm bookings with payment.

Booking Management:

View/Cancel upcoming bookings.

Track booking status (Pending/Paid/Checked-in/Checked-out).

Payment:

Secure payment processing.

Generate/download payment receipts (PDF).

3. Receptionist Features

Booking Management:

View all active bookings (Pending/Booked/Checked-in).

Update booking status (Check-in/Check-out/Cancel).

Dashboard: Overview of occupied rooms and recent bookings.

4. Staff Features

Task Management:

View assigned room cleaning tasks.

Mark tasks as completed.

Report maintenance issues.

Leave Application: Submit leave requests with reason/dates.

5. Admin Features

User Management:

View/Edit all user profiles (Customers, Staff, Receptionists).

Filter users by role.

Room Management:

Update room prices.

Track maintenance requests (Pending/In Progress/Completed).

Staff Assignments:

Assign cleaning tasks to staff.

Monitor task completion.

Leave Requests:

Approve/reject staff leave applications.

Dashboard:

Analytics (total bookings, occupied rooms, daily check-ins).

6. Additional Features

Dynamic UI: Custom controls (e.g., underlined textboxes, interactive panels).

Data Validation: Input checks for emails, passwords, phone numbers.

PDF Generation: Receipts for payments.

Role-Based Navigation: Each user type sees relevant options.

Responsive Design: Adapts to different form sizes.

Technical Highlights

Database: SQL Server with tables for users, rooms, bookings, payments, tasks, etc.

Security: Password hashing (implied by validation).

Modular Code: Reusable methods for database operations and UI controls.

This system streamlines hotel operations for customers, staff, and administrators while ensuring data integrity and a smooth user experience.

Separate Files:

ADMIN:

Admin_Dashboard,
Assign_Staff_Task,
Handle_Leave_RequestcsAdmin,
Handle_Rooms_Admin,
Manage_Users_Admin

RECIPTIONIST:

Reciptionist,
Reciptionist_Leave,
Update_Booking_Status_RC,
Employee_Profile,
Edit_Info

STAFF:

StaffDashboard,
showMYTask,
Staff_LeaveApplication,
Employee_Profile, Edit_Info

CUSTOMER:

Rooms,

Room_Details,

Confirm_Bookings,

Payment,

User_Profile,

Pending_Payment