



# Darshan University

A Project Report on

## **“Hotel Management System”**

Under the subject

**Software Engineering (2301CS405)**

B.Sc.(H) sc , Semester – IV

Computer Science & Engineering Department

Submitted By

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Academic Year

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Internal Guide

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**DECLARATION**

We hereby declare that the SRS, submitted along with the **Software Engineering (2301CS405)** for entitled “**Hotel Management System**” submitted in partial fulfilment for the Semester-4 of **Bachelor Technology (B.Sc(H))** in **Computer Science (CS)** Department to Darshan University, Rajkot, is a record of the work carried out at **Darshan University, Rajkot** under the supervision of R. B. Gondaliya and that no part of any of report has been directly copied from any students’ reports, without providing due reference.

(Bhalara Dakshkumar S.)

Student’s Signature

Date: \_\_\_\_\_



**Computer Science & Engineering  
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**CERTIFICATE**

This is to certify that the SRS on “**Hotel Management System**” has been satisfactorily prepared by **Bhalara Dakshkumar S. (23031701005)** under my guidance in the fulfillment of the course **Software Engineering (2301CS405)** work during the academic year 2024-2025.

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Thus, in conclusion to the above said, I once again thank the faculties and members of **Darshan University** for their valuable support in completion of the project.

Thanking You

**Bhalara Dakshkumar S.**

## ABSTRACT

The Hotel Management System (HMS) is a comprehensive software solution designed to streamline and enhance the operational efficiency of hotels and hospitality businesses. This system addresses the complexities of managing various hotel functions, including reservations, check-ins, check-outs, billing, and customer relationship management. By integrating these functions into a single platform, the HMS facilitates improved communication between staff, enhances guest experiences, and optimizes resource allocation. The HMS features a user-friendly interface that allows hotel staff to manage room availability, process bookings in real-time, and generate invoices efficiently. It also includes reporting capabilities that provide valuable insights into occupancy rates, revenue trends, and customer demographics, enabling informed decision-making for management. In an era where digital transformation is crucial, the HMS not only automates routine tasks but also enhances the overall guest experience by providing seamless interactions and personalized services. By leveraging technology, the Hotel Management System aims to reduce operational costs, minimize human errors, and ultimately increase customer satisfaction and loyalty. This abstract outlines the foundational goals and functionalities of the HMS, emphasizing its role in modern hotel management.

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# 1 Introduction

## 1.1 Product perspective

The product perspective for a Hotel Management System (HMS) outlines its role within the broader context of hotel operations. It serves as an integrated solution for managing reservations, guest services, billing, and reporting. The HMS enhances efficiency, improves customer experience, and supports decision-making through data analysis. By centralizing various functions, it allows hotel staff to streamline operations and provide better service to guests.

## 1.2 Key Features of the Hotel Management System

### 1.2.1 Reservation Management

- Online booking capabilities
- Real-time availability updates
- Group booking management

### 1.2.2 Guest Management

- Guest profiles and history tracking
- Check-in and check-out processes
- Special requests and preferences handling

### 1.2.3 Billing and Invoicing

- Automated billing processes
- Multiple payment options
- Invoice generation and management

## 1.3 Functional Requirement

### 1.3.1 Customers

- Login / registration : The system must allow Customers to register and log in securely.
- Easy Online Booking: Guests expect a user-friendly online booking system that allows them to check availability, compare room types, and make reservations easily.
- Filter : Apply Filter regarding his/her choice room , price , hotel stars,
- Efficient Check-In Process: Guests prefer a quick and hassle-free check-in process, ideally with minimal paperwork.
- Self-Service Options: Availability of self-check-in kiosks or mobile check-in options for added convenience.
- Express Check-Out: A streamlined check-out process that allows guests to settle their bills quickly and leave without waiting in line.
- On-Site Dining: Availability of restaurants, cafes, or bars within the hotel offering a variety of cuisines and dining experiences.
- Payment: Allow Online or Offline payment
- Car Rental: available Car or Cab for visit near place

### 1.3.2 Managers

- Registration and Authentication: The system must allow users (staff, managers and customer) to register and log in securely.
- Role-Based Access Control: Different user roles (e.g., front desk staff, managers, housekeeping) should have specific permissions and access levels.

### 1.3.3 Reservation Managers

- Room Availability Check: The system must provide real-time availability of rooms based on dates and room types.
- Booking Creation: Users should be able to create new reservations, including single and group bookings.
- Booking Modification and Cancellation: Users must be able to modify or cancel existing reservations.

### 1.3.4 Housekeeping Managers

- Room Status Tracking: The system should allow housekeeping staff to update the status of rooms (e.g., clean, dirty, maintenance).
- Task Assignment: Managers should be able to assign housekeeping tasks to staff and track their completion.

## 1.4 Non-Functional Requirement

### 1.4.1 Usability:

- The UI should be simple enough for everyone to understand and get the relevant information without any special training. Different languages can be provided based on the requirements.

### 1.4.2 Accuracy:

- The data stored about the books and the fines calculated should be correct, consistent, and reliable.

### 1.4.3 Availability:

- The System should be available for the duration when the Hotel operates and must be recovered within an hour or less if it fails. The system should respond to the requests within two seconds or less.

### 1.4.4 Maintainability:

- The software should be easily maintainable and adding new features and making changes to the software must be as simple as possible. In addition to this, the software must also be portable.

## 2 Design and Implementation Constraints

### 2.1 Use case diagram

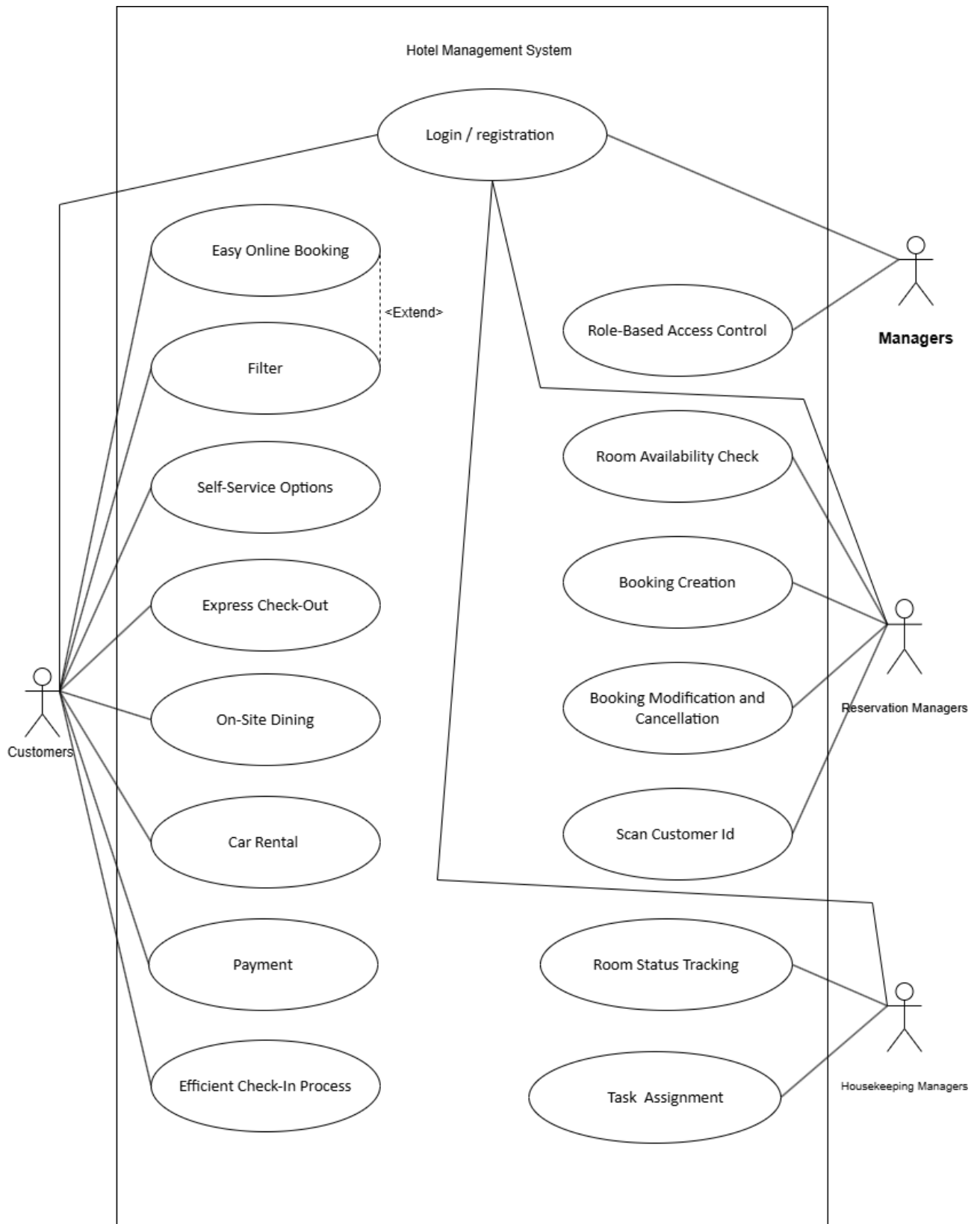


Figure 2.1-1 Use case diagram for hotel management system

## 2.2 Activity diagram and Swimlane diagram

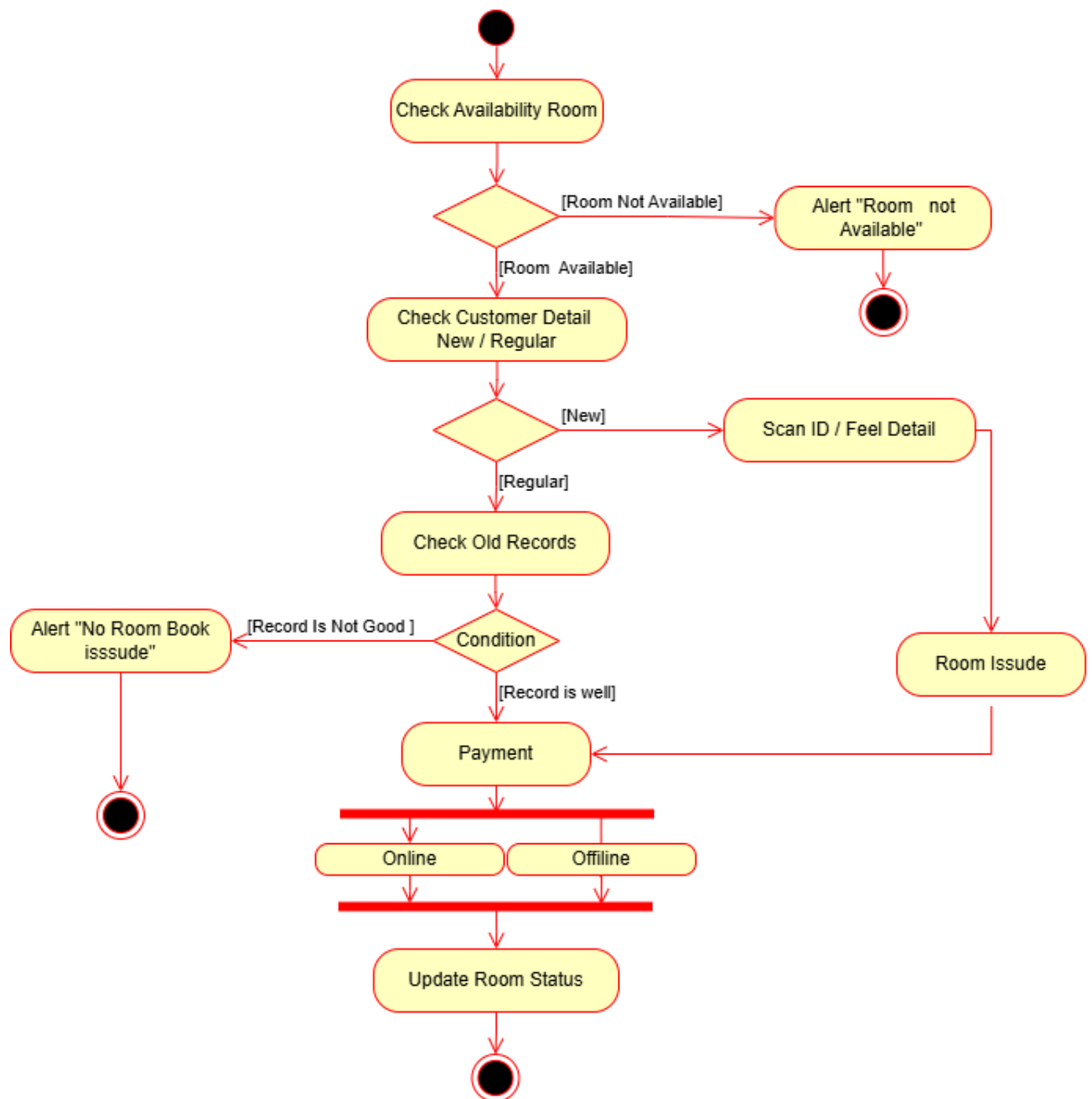


Figure 2.2-1 Activity diagram for Room Issue

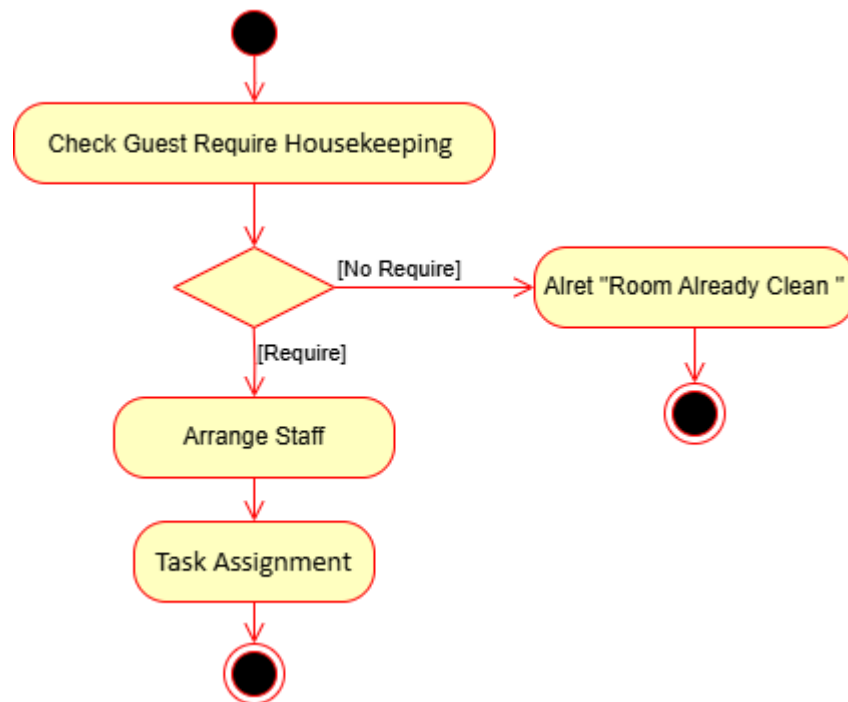


Figure 2.2-2 Activity diagram for Houses keeping

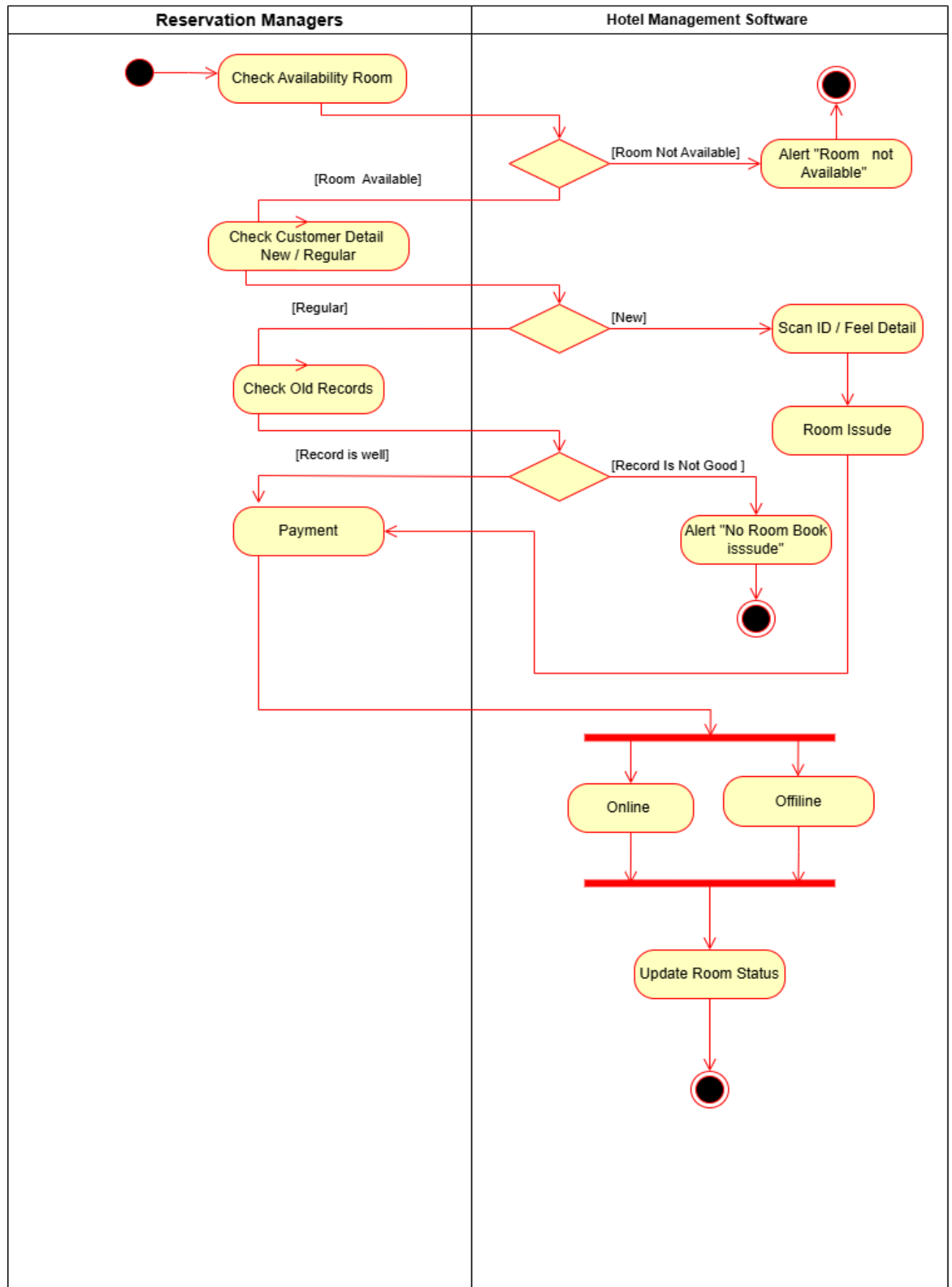


Figure 2.3-1 Swimlane diagram for Room Issue

## 2.3 Sequence diagram

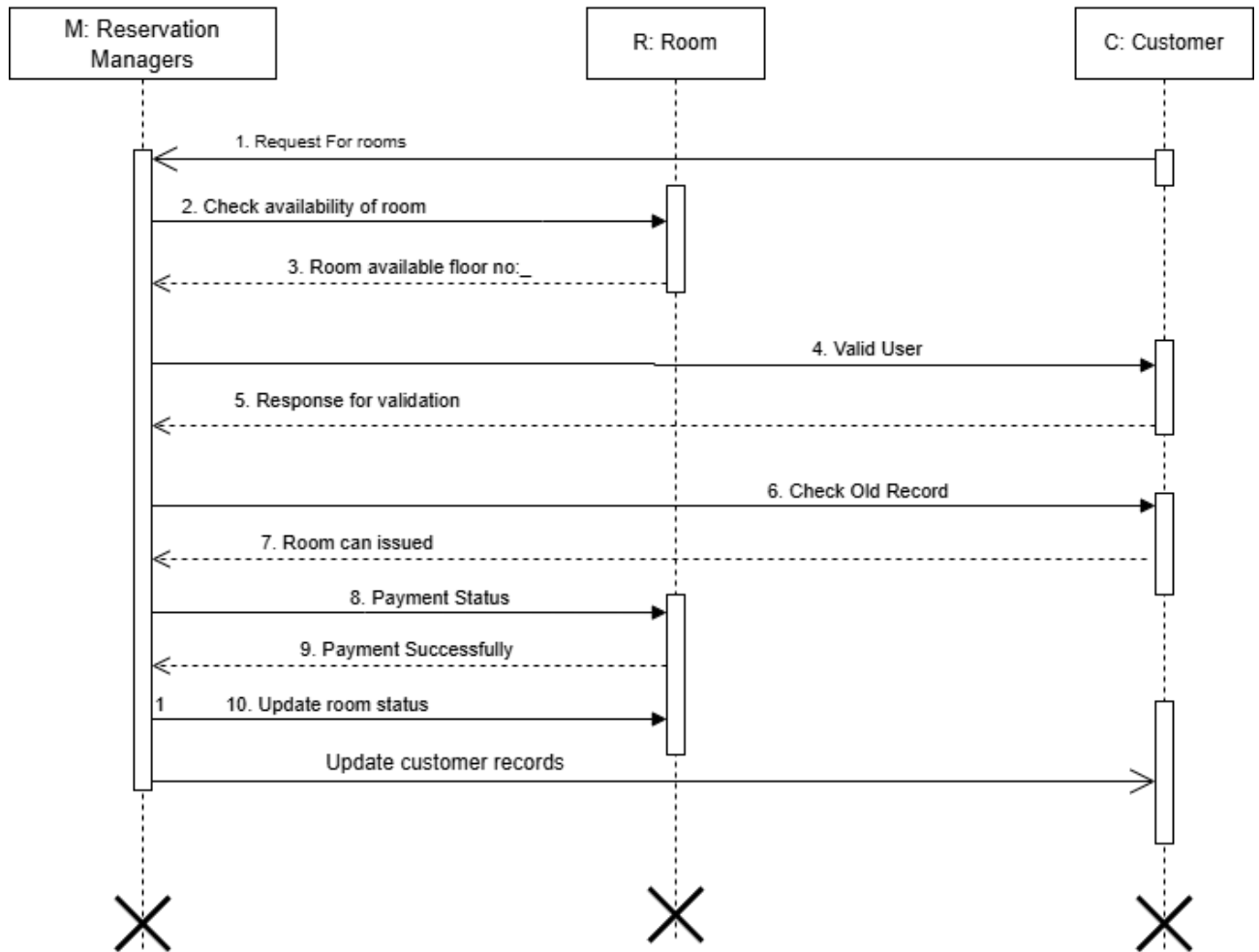


Figure 2.4-1 Sequence diagram for Room Issue



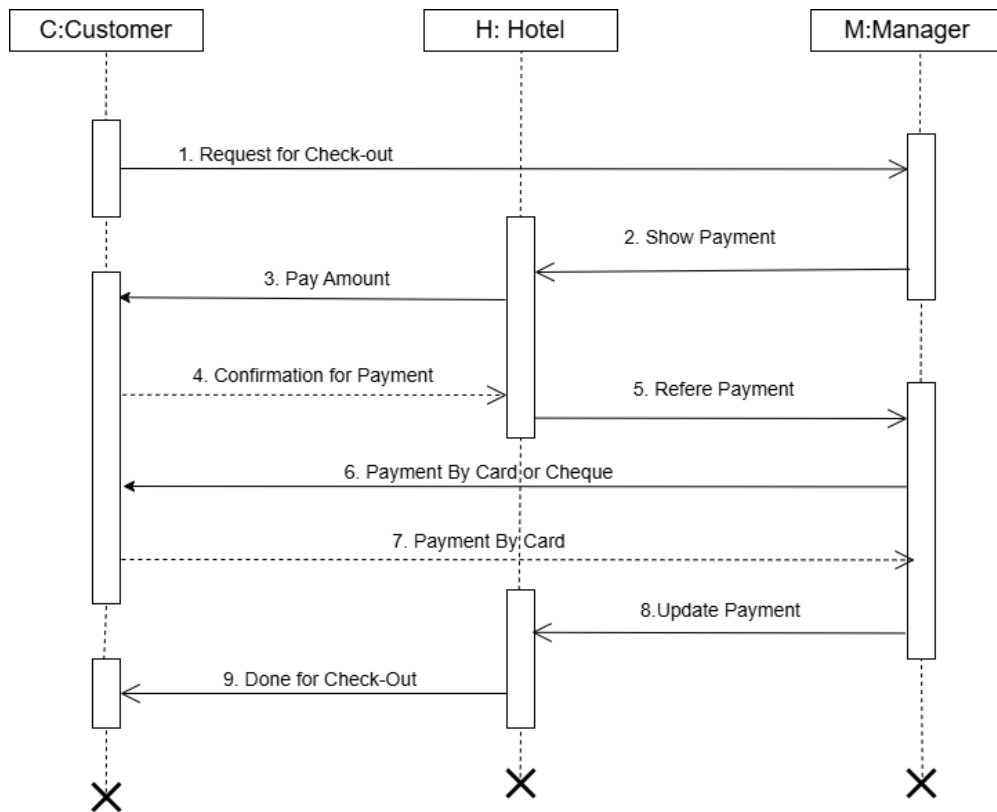


Figure 2.4-2 Sequence diagram for Payment Process

## 2.4 State diagram

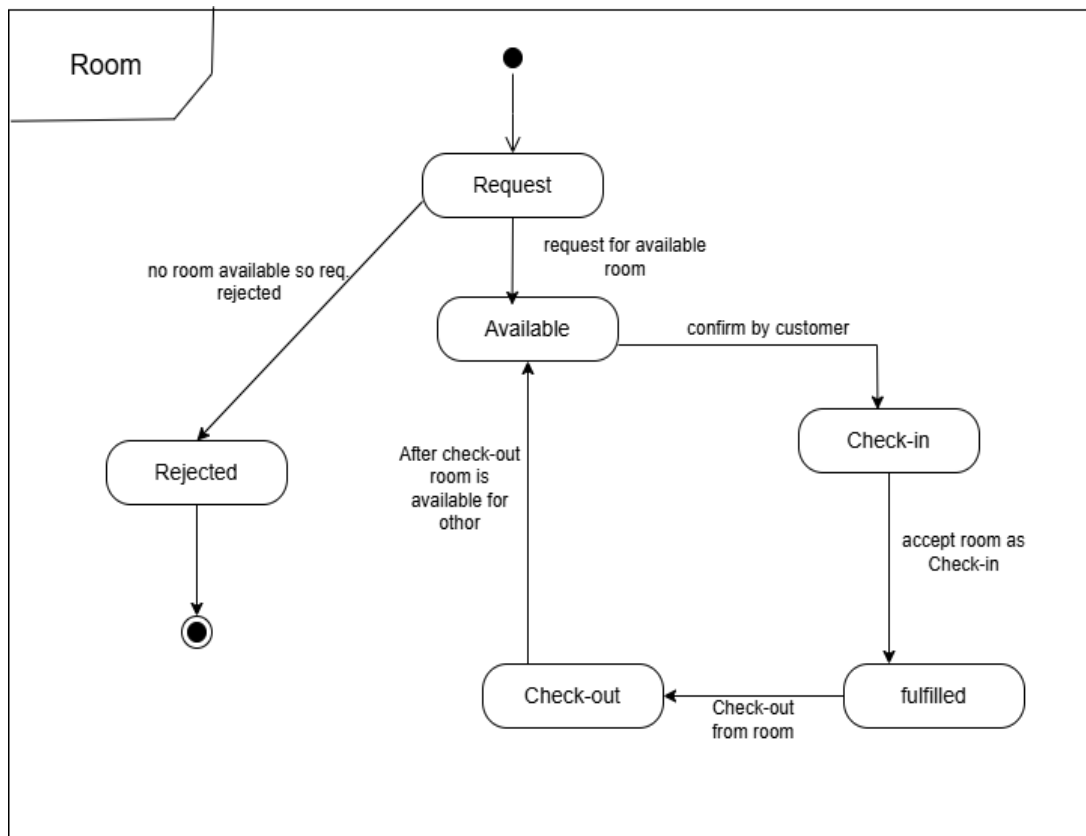


Figure 2.5-1 State diagram of Room Book

## 2.5 Class diagram

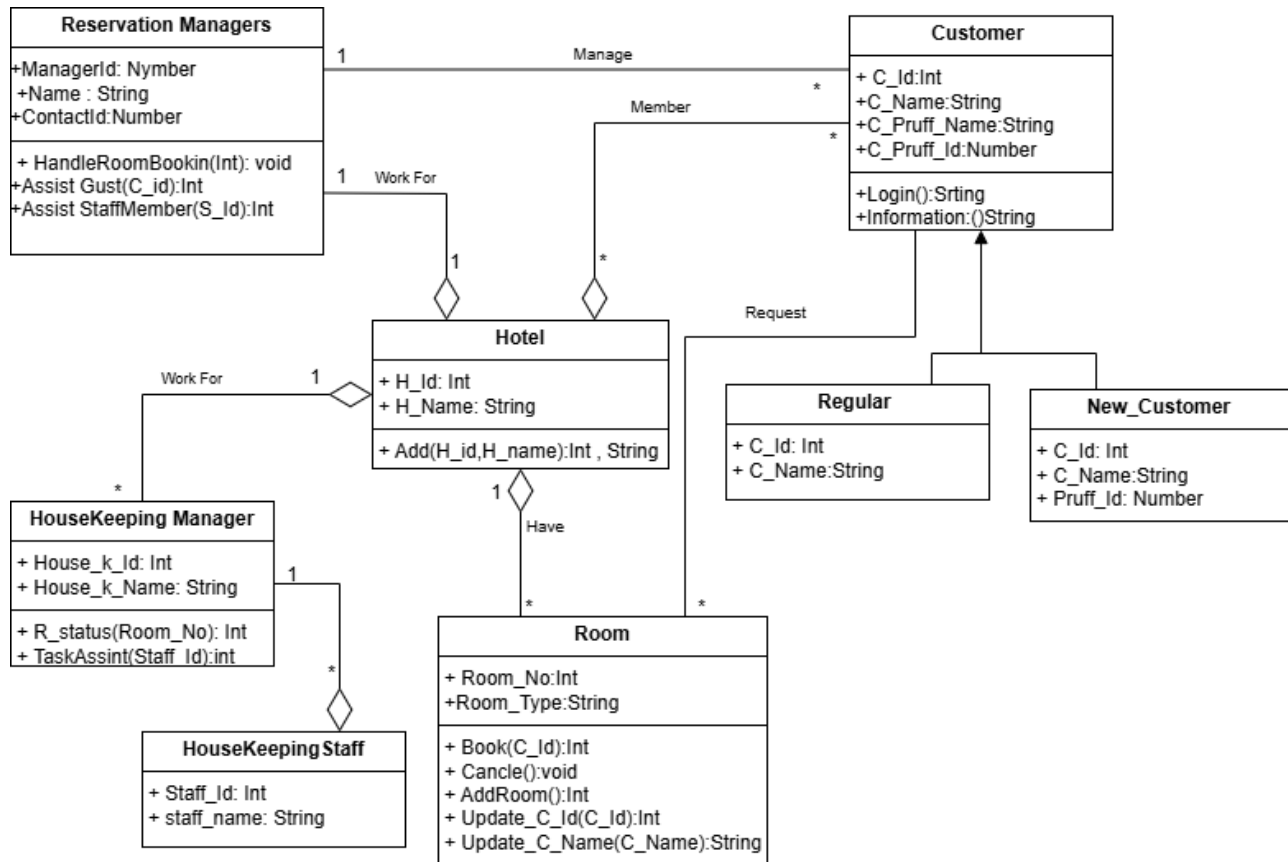


Figure 2.6-1 Class diagram for Hotel management system

## 2.6 Data flow diagram

### 2.6.1 Context diagram (level-0)

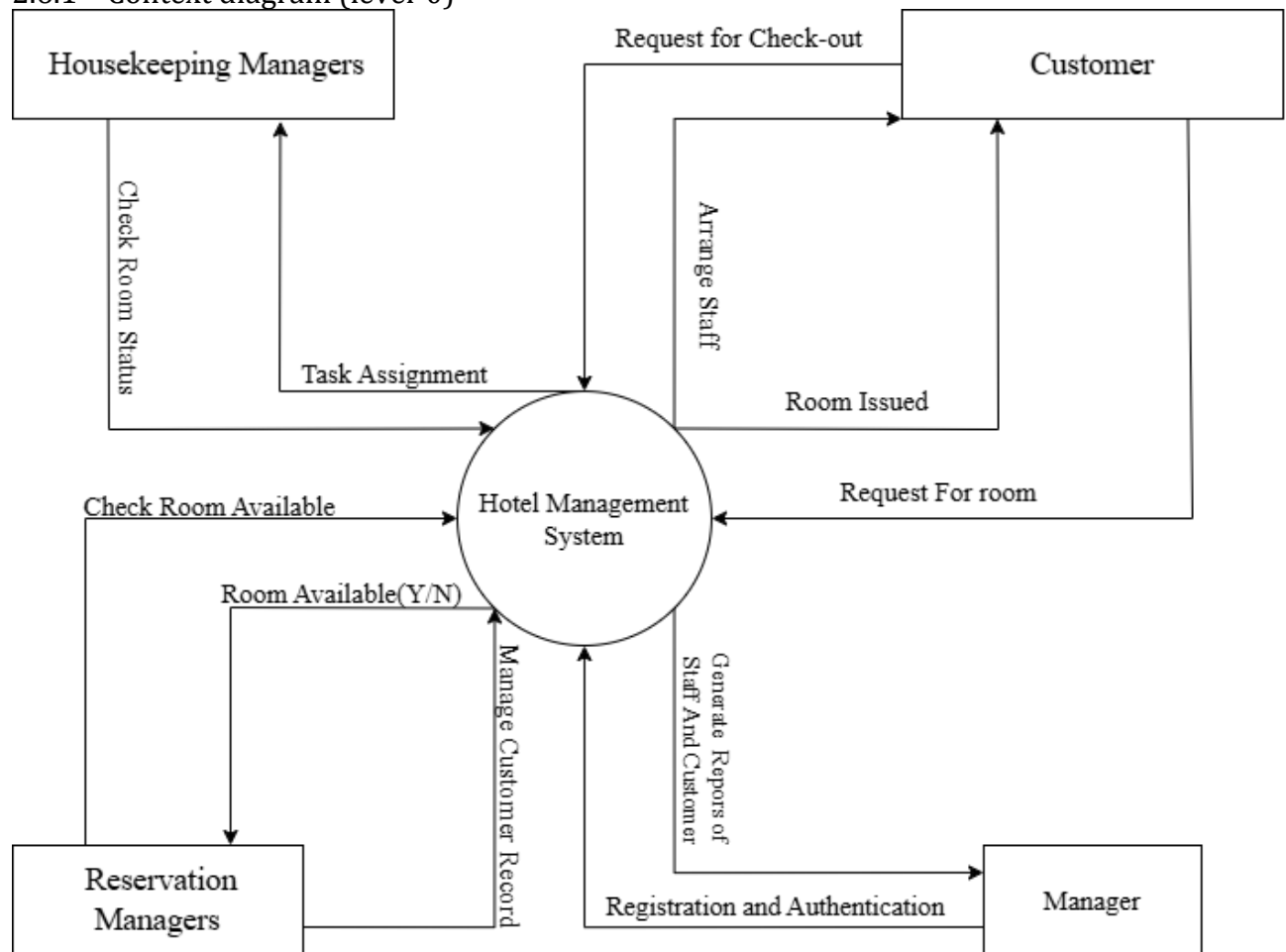


Figure 2.7-1 Context diagram for Hotel management system

### 2.6.2 DFD Level-1

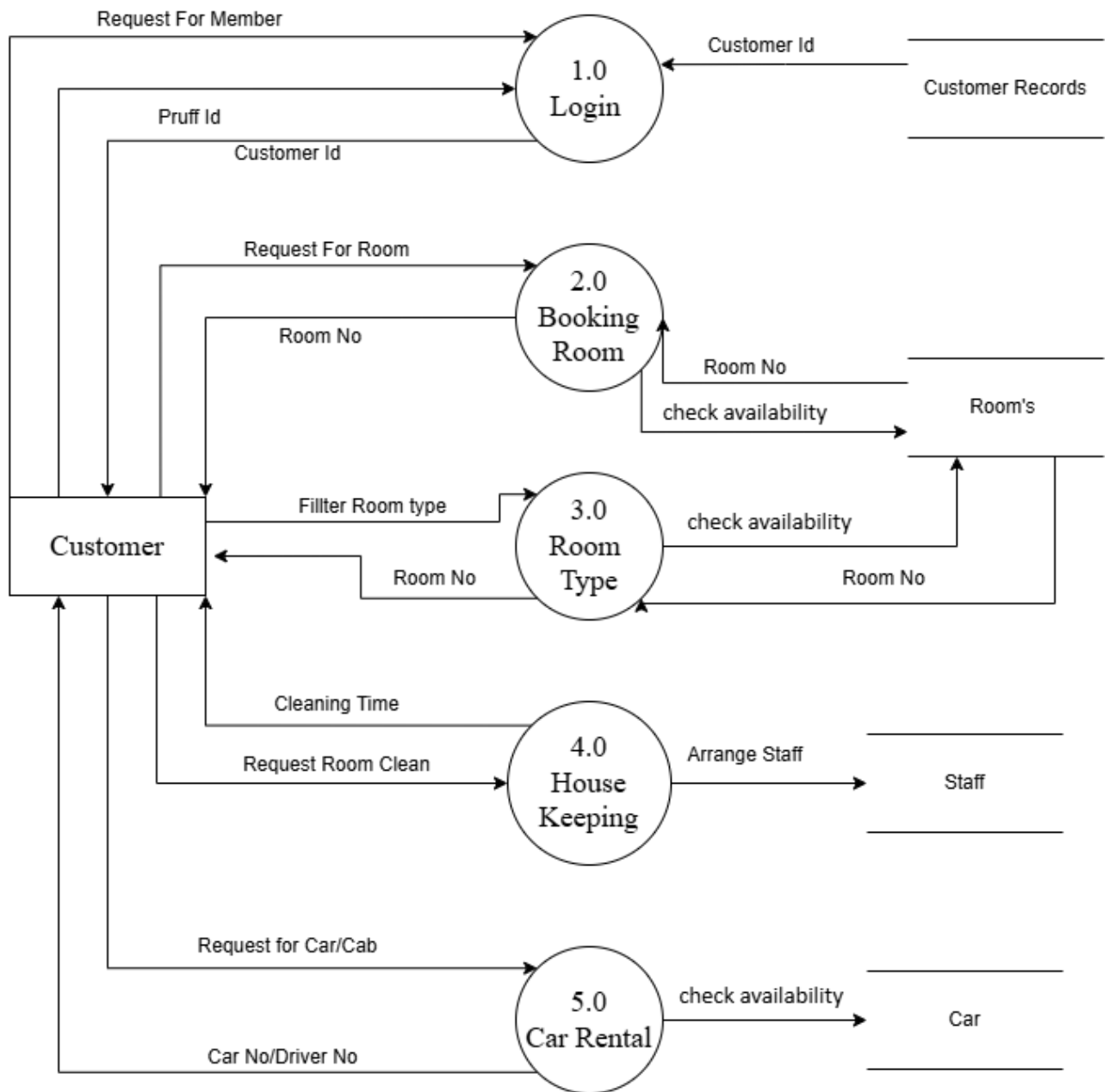


Figure 2.7-2 DFD level-1 for Hotel management system

### 3 External interface requirement (Screens)

#### 3.1 Screen-1: Book a Room Form

Figure 3.1-1 Screen-1: Book Room Form

**Purpose:** This form will allow the target end-users to register in the Hotel . To Book Room, the following information will be encoded in the system.

Table 3.1-1 Screen element of Book Room form

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Check-in date	Date	M	1	Check-in time is the time when guests are expected to arrive at a hotel
2	Check-Out Date	Date	M	1	Check-out time is the time by which guests are expected to leave a hotel or other accommodation
3	Rooms	Dropdown	M	N	Select Number of Rooms
4	Adults	Dropdown	M	N	Select Member In One Room (18+)
5	Children	Dropdown	-----	-----	Select Child in Room
6	Promo Code	Button	-----	-----	Link for a discount on Room or services .
7	Search Room	Button	-----	-----	Find Available Room in specific date

### 3.2 Screen-2: Car Rental

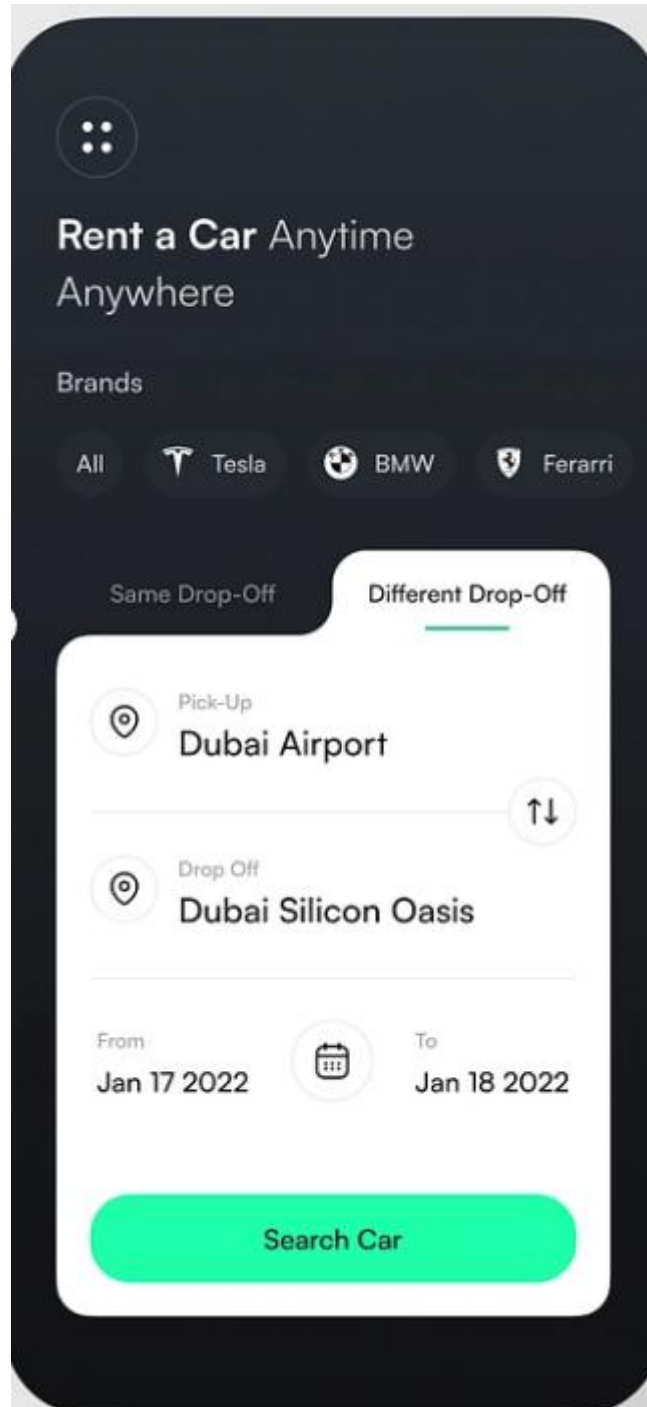


Figure 3.2-1 Screen-2: Car Rental

**Purpose:** This screen allows users to search for rental cars by selecting their preferred car brand, pick-up and drop-off locations, and rental dates. It provides a seamless booking experience, enabling users to find and reserve vehicles efficiently based on their needs.

Table 3.2-1 Screen element of car Rental

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Side Bar	Button	----	----	
2	Brande	Button	M	1	Select Brande of Cars
3	Pick-up	Text	M	1	Customer Set Location(Pick-Up)

4	Drop Off	Text	M	N	Customer Set Location(Drop-Off)
5	From	Date	M	1	From time is the time when guests are expected to arrive at a Location
6	To	Date	M	1	To time is the time by which guests are expected to Drop at a Location
7	Search Car	Button	-----	-----	Search Car For specific condition

### 3.3 Screen-3: Role-Based Access Control

**Hotel Management Access Control**

Select Role:

Front Desk

Permission	Access
View Dashboard	<input checked="" type="checkbox"/>
Manage Bookings	<input type="checkbox"/>
Manage Staff	<input type="checkbox"/>
Manage Room Service	<input type="checkbox"/>
Manage Kitchen Orders	<input type="checkbox"/>
Handle Maintenance Requests	<input type="checkbox"/>

Save Changes

Figure 3.3-1 Screen-3:Role Base Access Control

**Purpose:** This screen is used for managing role-based access control in a hotel management system. It allows administrators to assign specific permissions to different roles (e.g., Front Desk, Manager, Housekeeping) by selecting which features they can access.



Table 3.3-1 Screen element of Role Base Access Control

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Select Role	Dropdown	M	1	User selects a role from the dropdown list
2	View Dashboard	Checkbox	M	1	Grants access to the dashboard
3	Manage Bookings	Checkbox	O	1	Grants access to manage hotel bookings
4	Manage Staff	Checkbox	O	1	Grants access to manage hotel staff
5	Manage Room Service	Checkbox	O	1	Grants access to handle room service requests
6	Handle Maintenance Requests	Checkbox	O	1	Grants access to manage hotel maintenance requests
7	Save Changes	Button	M	1	Saves the selected permissions for the chosen role

### 3.4 Screen-4: Room Availability Check

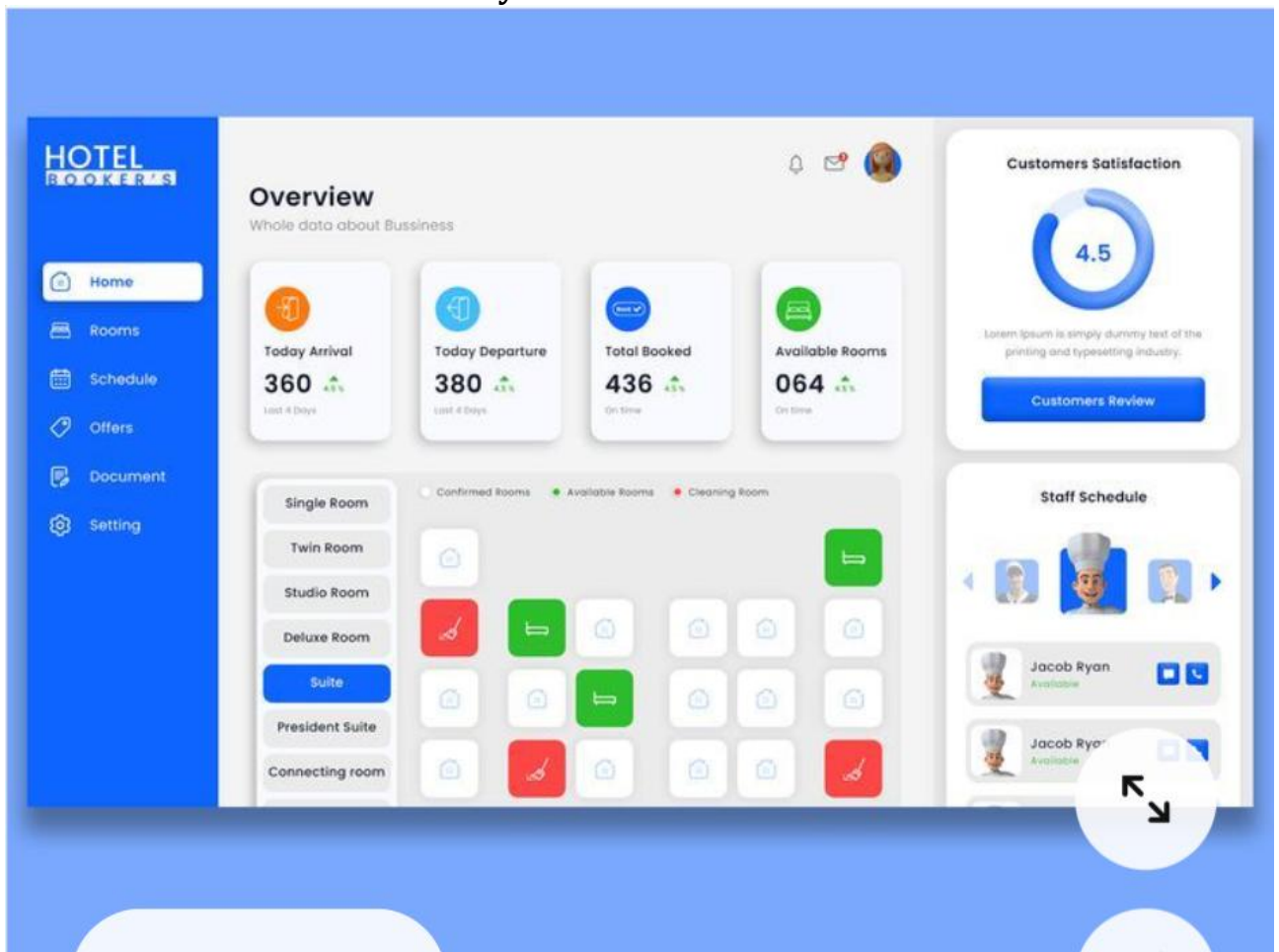


Figure 3.4-1 Screen-4: Room Availability Check

**Purpose:** This screen serves as the dashboard for a hotel management system, providing an overview of key operational metrics.

Table 3.4-1 Screen element of Room Availability Check

Sr.	Screen Element	Input Type	O/M	1/N	Description
1.					
2.	List Bar		M	N	List of rooms (Today Arrival, Departure, Total Rook, Available Room)
3.	Type Of Room	Button	----	----	
4.	Customer Review				Show customer satisfaction
5.					

### 3.5 Screen-5: Room Status Tracking

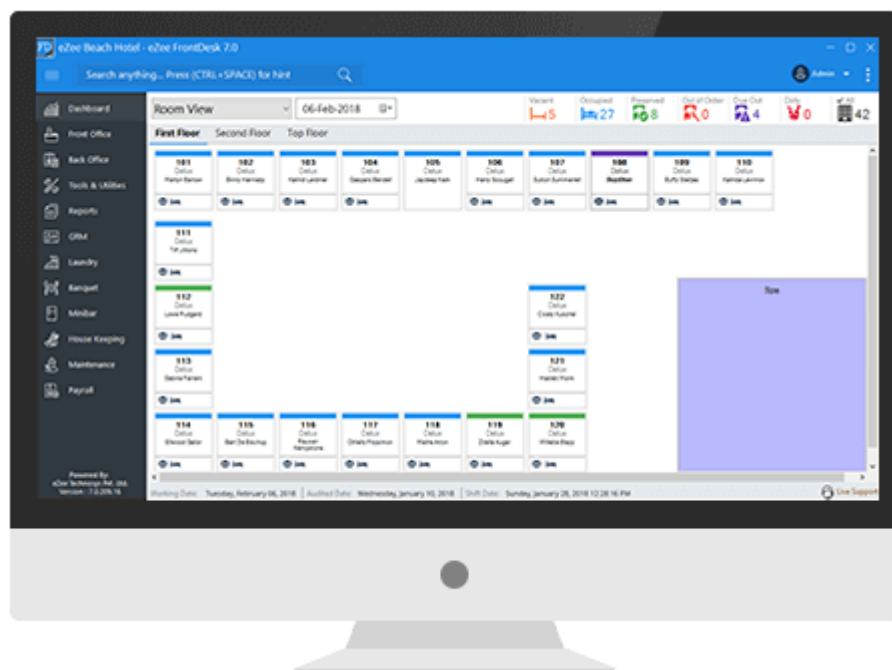


Figure 3.5-1 Screen-5: Room Status Tracking

**Purpose:** This screen displays a hotel management system interface, likely for front desk operations. It provides a room view layout, showing the status of each room across different floors

Table 3.5-1 Screen element of Room Status Tracking

Sr.	Screen Element	Input Type	O/M	1/N	Description
1.	Side Bar	Button	M	N	
2.	Room View	Drop Down	O	N	List of room available and type
3.	Date	Button	M	1	View day wise rook booking list

### 3.6 Screen-6 :Filters

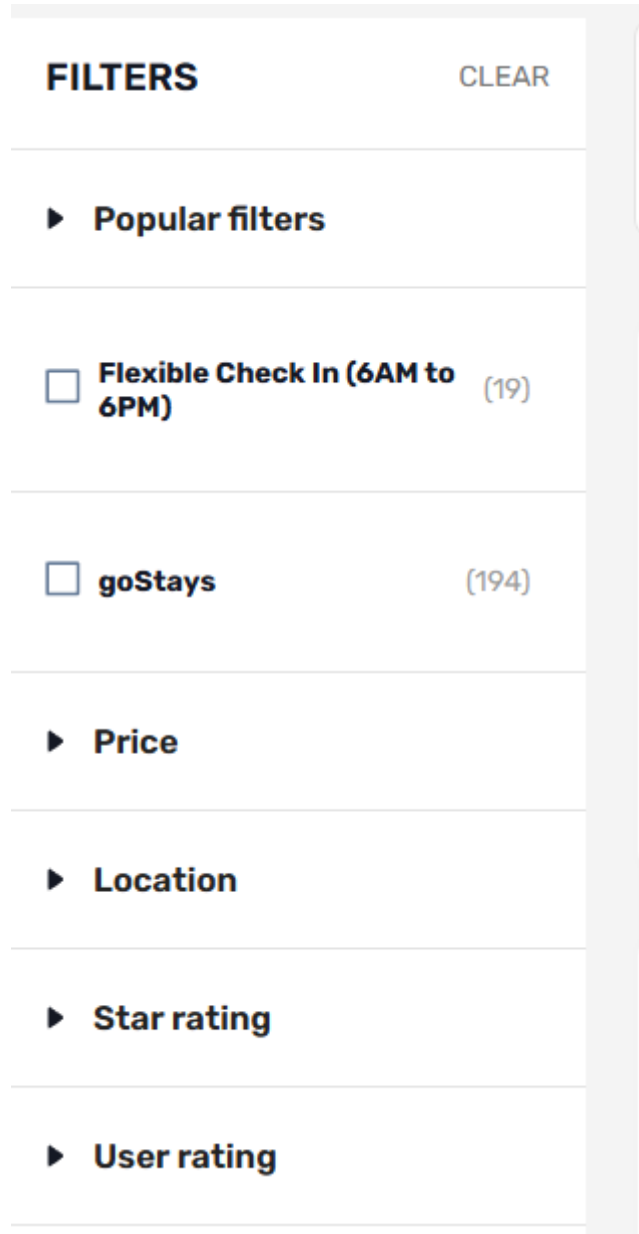


Figure 3.6-1 Screen-6: Filter Room

**Purpose:** This screen displays a filter menu for a hotel booking platform, allowing users to refine their search results based on various criteria.

Table 3.6-1 Screen element of Filters Room

Sr.	Screen Element	Input Type	O/M	1/N	Description
1	Popular Filters	Dropdown	M	1	Filters are used for many times for book room.

<b>2</b>	Flexible Check In (6AM to 6PM)	Check Box	M	1	A flexible check-in room booking is a hotel room that allows guests to check in at a time of their choosing, usually within a specified window.
<b>3</b>	Go Stays	Textbox	M	1	A Go Stays room book is a booking made on the Hotel app for a budget accommodation on the Hotel platform
<b>4</b>	Price	Dropdown	M	1	The Price Filter enables you to choose specific price ranges of Room or focus on Room above or below a certain price point.
<b>5</b>	Location	Dropdown	M	1	A location filter for a room book is a tool that allows users to search for rooms in a specific location
<b>6</b>	Star Rating	Dropdown	M	1	Star Ratings are an internationally recognised symbol for quality accommodation standards
<b>7</b>	User Rating	Dropdown	M	1	Guests can enjoy well-equipped rooms, enhanced by a variety of facilities to improve their stay

## 4 Database design

### 4.1 List of Tables

- Customer
- Room
- Student
- Staff

Table 4.1-1 Table: Customer

Column	Data Type	Null	Keys & Constrains	Default Value & Description
CustomerID	int	NN	PK (Auto Increment)	
CustomerName	varchar(100)	NN		
CustomerContact	varchar(100)	NN		
CustomerDob	Date	NN		
CustomerPruff	varchar(50)	NN		
CustomerAddress	Varchar(50)	NN		

Table 4.1-2 Table: Room

Column	Data Type	Null	Keys & Constrains	Default Value & Description
RoomID	int	NN	PK	
CustomerID	int	NN	FK	Reference of Customer Table
RoomType	Varchar(50)	NN		
CheckIn_Date	DateTime	NN		
CheckOut_Date	DateTime	NN		
Capacity	int	NN		
Rent	Decimal(7,2)	NN		

Table 4.1-3 Table: Car

Column	Data Type	Null	Keys & Constrains	Default Value & Description
CarNo	int	NN	PK	
CustomerID	int	NN	FK	Reference of Customer Table
RoomID	int	NN	FK	Reference of Room Table
CustomerLicense	varchar(100)	NN		
TotalTravelDistance	Decimal(5,2)	NN		

Table 4.1-4 Table: Managers

Column	Data Type	Null	Keys & Constrains	Default Value & Description
ManagersID	int	NN	PK (Auto Increment)	
ManagersName	varchar(100)	NN		
Contact	number(10,0)	AN		
Gender	varchar(100)	AN		
DepartmenetID	int	NN	FK	Reference of Department Table
Salary	Decimal(7,2)	NN		

Table 4.1-5Table: Staff

Column	Data Type	Null	Keys & Constrain	Default Value & Description
<b>StaffID</b>	int	NN	PK(Auto Increment)	
<b>StaffName</b>	Varchar(50)	NN		
<b>ManagerID</b>	int	NN	FK	Reference of Managers Table
<b>DepartmentID</b>	int	NN	FK	Reference of Department Table

Table 4.1-6Table: Department

Column	Data Type	Null	Keys & Constrain	Default Value & Description
<b>DepartmentID</b>	int	NN	PK(Auto Increment)	
<b>DepartmentName</b>	Varchar(50)	NN		

## 5 Stories and Scenario

### 5.1 Story-1: Easy Online Booking

<b>Story # S1</b>	:	<b>As a customer,</b> <b>I want to</b> easily book a service online <b>So that</b> I can quickly secure my appointment without hassle.
<b>Priority</b>	:	High
<b>Estimate</b>	:	XL
<b>Reason</b>	:	Simplifies the booking process, making it more user-friendly. Automates booking, reducing the need for staff to handle appointments manually.

#### 5.1.1 Scenario# S1.1

<b>Scenario# S1.1</b>	:	Successful Online Booking
<b>Prerequisite</b>	:	Customer is logged in to the Hotel management system. The customer has internet access and is on the booking page.
<b>Acceptance Criteria</b>	:	<p><b>Given:</b> The customer is on the online booking page. The list of available services and time slots is displayed..</p> <p><b>When:</b> The customer selects a service. The customer chooses an available date and time. The customer enters required details (name, phone, email). The customer confirms the booking..</p> <p><b>Then</b> The system verifies availability and confirms the booking. The customer receives a confirmation notification (email/SMS). The booking details are stored in the system.</p>

#### 5.1.2 Scenario# S1.2

<b>Scenario# S1.2</b>	:	Adding Booking Failure Due to Unavailable Time Slot
<b>Prerequisite</b>	:	The system must have real-time availability updates.
<b>Acceptance Criteria</b>	:	<p><b>Given:</b> The customer is on the online booking page. The list of available services and time slots is displayed. Another customer is booking the same time slot at the same time.</p> <p><b>When:</b> The customer selects a service. The customer chooses a date and time slot that appears available. The customer enters the required details and clicks "Confirm Booking." The system processes the request but detects that the selected time slot is no longer available.</p>

	<p><b>Then</b> The system displays an error message: "Selected time slot is no longer available. Please choose another time."</p> <p>The customer is redirected to the time selection screen with updated availability.</p> <p>The customer can select a new time slot and proceed with the booking.</p> <p>The system prevents double bookings by locking confirmed slots in real-time..</p>
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### 5.1.3 Scenario# S1.3

<b>Scenario# S1.3</b>	: Booking Cancellation by Customer
<b>Prerequisite</b>	: The librarian is logged into the library management system and the librarian is on the library catalogue management page
<b>Acceptance Criteria</b>	<p><b>Given:</b> The customer has successfully booked an appointment.</p> <p>The customer has received a confirmation email or SMS with booking details.</p> <p>The system allows cancellations within a specified time frame.</p> <p><b>When:</b> The customer accesses the booking cancellation page.  The customer enters their booking reference or logs into their account.  The customer selects the booking they want to cancel.  The customer clicks the "Cancel Booking" button and confirms the cancellation.</p> <p><b>Then:</b> The system verifies the cancellation request and updates the booking status to "Canceled."  The time slot becomes available for other customers.  The customer receives a cancellation confirmation via email or SMS.  If applicable, a refund process is initiated based on the cancellation policy.</p>

## 5.2 Story-2: Role-Based Access Control (RBAC)

<b>Story # S2</b>	: <b>As a</b> Managers, <b>I want to</b> implement Role-Based Access Control (RBAC), <b>So that</b> users only have access to the features and data relevant to their role..
<b>Priority</b>	: High
<b>Estimate</b>	: 1
<b>Reason</b>	: Enhances system security by restricting access based on user roles. Ensures that sensitive operations are performed only by authorized users. Reduces human errors by limiting access to relevant functionalities.

### 5.2.1 Scenario# S2.1

<b>Scenario# S2.1</b>	: Admin Grants Role to a User
<b>Prerequisite</b>	: The admin is logged into the system. The user exists in the system without a defined role or with a different role.



<b>Acceptance Criteria</b>	<p><b>Given:</b> The admin is on the user management panel. The system displays a list of users and their current roles.</p> <p><b>When:</b> The admin selects a user. The admin assigns a new role (e.g., "Customer," "Staff," "Manager," "Admin"). The admin saves the changes.</p> <p><b>Then</b> The system updates the user's role. The user's permissions change based on the assigned role. The system logs the role assignment action. The user receives a notification about their new role.</p>
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### 5.2.2 Scenario# S2.2

<b>Scenario# S2.2</b>	Unauthorized User Tries to Access Restricted Page
<b>Prerequisite</b>	A user with a restricted role is logged into the system.
<b>Acceptance Criteria</b>	<p><b>Given:</b> The user is logged in with a role that does not have permission to access a specific feature or page.</p> <p><b>When:</b> The user attempts to access a restricted page or perform an unauthorized action.</p> <p><b>Then:</b> The system denies access and displays an error message: "You do not have permission to access this page." The system logs the unauthorized access attempt. The user is redirected to their permitted dashboard or homepage..</p>

### 5.2.3 Scenario# S2.3

<b>Scenario# S2.3</b>	Admin Revokes User Access
<b>Prerequisite</b>	<p>The admin is logged into the system.</p> <p>The user currently has a specific role with certain access privileges.</p>
<b>Acceptance Criteria</b>	<p><b>Given</b> The admin is on the user management panel. The system displays a list of users and their assigned roles.</p> <p><b>When:</b> The admin selects a user. The admin removes or changes their role to a lower access level. The admin saves the changes.</p> <p><b>Then:</b> The system updates the user's access permissions. The user can no longer access previously available restricted sections. The system logs the role modification action. The user receives a notification that their access level has changed.</p>

## 5.3 Story-3: Car Rental

<b>Story # S3</b>	<p><b>As</b> Customer ,</p> <p><b>I want</b> to rent a car from the hotel,</p> <p><b>So that</b> Enhances customer convenience by providing an additional service. Increases hotel revenue by offering car rental services.</p>
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<b>Priority</b>	: High
<b>Estimate</b>	: L
<b>Reason</b>	: Enhances customer convenience by providing an additional service. Increases hotel revenue by offering car rental services.

## 5.3.1 Scenario# S3.1

<b>Scenario# S2.3</b>	: Successful Car Rental Booking
<b>Prerequisite</b>	: The customer is logged into the hotel management system. The customer has internet access and is on the car rental booking page.
<b>Acceptance Criteria</b>	: <b>Given</b> The customer is on the car rental booking page.  The system displays available car options, rental durations, and pricing. <b>When:</b> The customer selects a car. The customer chooses the rental duration. The customer enters required details (name, phone, payment information). The customer confirms the booking.  <b>Then:</b> The system verifies availability and confirms the car rental. The customer receives a confirmation notification (email/SMS). The rental details are stored in the system.

## 5.3.2 Scenario# S3.2

<b>Scenario# S2.3</b>	: Car Rental Failure Due to Unavailable Vehicle
<b>Prerequisite</b>	: The system must have real-time car availability updates.
<b>Acceptance Criteria</b>	: <b>Given</b> The customer is on the car rental booking page. The system displays available car options and rental durations. Another customer is booking the same car at the same time..  <b>When:</b> The customer selects a car and rental duration. The customer enters the required details and clicks "Confirm Rental." The system processes the request but detects that the selected car is no longer available.  <b>Then:</b> The system displays an error message: "Selected car is no longer available. Please choose another car." The customer is redirected to the car selection page with updated availability. The customer can select a different car and proceed with the rental. The system prevents double bookings by locking confirmed rentals in real-time.

## 5.3.3 Scenario# S3.3

<b>Scenario# S3.3</b>	: Customer Cancels a Car Rental Booking
<b>Prerequisite</b>	: The customer has successfully booked a car rental. The system allows cancellations within a specified time frame.
<b>Acceptance Criteria</b>	: <b>Given</b> The customer has a confirmed car rental booking. The customer has received a confirmation email or SMS with booking details.  <b>When:</b> The customer accesses the car rental cancellation page. The customer enters their booking reference or logs into their account. The customer selects the car rental booking they want to cancel. The customer clicks the "Cancel Rental" button and confirms the cancellation.

**Then:** The system verifies the cancellation request and updates the booking status to "Canceled." The car becomes available for other customers. The customer receives a cancellation confirmation via email or SMS. If applicable, a refund process is initiated based on the cancellation policy.

#### 5.4 Story-4: Room Status Tracking

<b>Story # S3</b>	:	As hotel staff member, <b>I want</b> track the real-time status of hotel rooms, <b>So that</b> I can efficiently manage room availability and housekeeping schedules.
	:	High
<b>Estimate</b>	:	L
<b>Reason</b>	:	Improves operational efficiency by keeping room statuses updated. Ensures that guests are assigned clean and available rooms. Reduces miscommunication between housekeeping and front desk staff.

##### 5.4.1 Scenario# S4.1

<b>Scenario# S4.1</b>	:	Updating Room Status After Guest Checkout
<b>Prerequisite</b>	:	The guest has checked out of the room. The housekeeping staff has access to the room status update system.
<b>Acceptance Criteria</b>	:	<b>Given</b> The housekeeping staff is logged into the hotel management system. The system displays a list of rooms with their current statuses (e.g., "Occupied," "Needs Cleaning," "Available").  <b>When:</b> The housekeeping staff marks the room as "Needs Cleaning" after a guest checks out. Once cleaning is completed, they update the status to "Available."  <b>Then:</b> The system updates the room status in real time. The front desk staff can see the updated room status and assign the room to a new guest. The system logs the status change for record-keeping.

##### 5.4.2 Scenario# S4.2

<b>Scenario# S2.3</b>	:	Notifying Housekeeping for Room Cleaning
<b>Prerequisite</b>	:	A guest has checked out, or a room has been marked as "Needs Cleaning." Housekeeping staff has access to the hotel management system.
<b>Acceptance Criteria</b>	:	<b>Given</b> The system detects a room status change to "Needs Cleaning."  <b>When:</b> The system automatically generates a cleaning request. The housekeeping team receives a notification about the pending cleaning task. <b>Then:</b> The room is added to the housekeeping task list. Once cleaning is completed, housekeeping updates the status to "Available." The front desk staff is notified that the room is ready for a new guest.

## 6 Test cases

<b>Project Name:</b>	<b>Hotel Management System</b>	<b>Test Designed by:</b>	<b>D. S. Bhalara</b>
<b>Module Name:</b>	<b>Book a Room Form</b>	<b>Test Designed date:</b>	<b>21-12-2024</b>
<b>Release Version:</b>	<b>1.0</b>	<b>Test Executed by:</b>	<b>R. B. Gondaliya</b>
		<b>Test Execution date:</b>	<b>10-01-2025</b>

Pre-condition: Web application should be accessible				
Test Case ID	Test Title	Test Type	Description	Test Case ID
TC_001	Verify Default Values	Functional	Verify that default values are pre-filled correctly in the booking form	TC_001
TC_002	Verify Room Selection	Functional	Ensure users can select the correct number of rooms	TC_002
TC_003	Verify Search Functionality	Functional	Ensure clicking "Search Rooms" returns available room options	TC_003
TC_004	Verify Search with Missing Fields	Negative	Ensure the system prevents searching when required fields are missing	TC_004

<b>Test Case Title</b>	Verify Search Functionality
<b>Test Type</b>	Functional
<b>Test Priority</b>	High
<b>Pre-condition</b>	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	BUG ID
1	Open the booking form	The form should load properly	Form loaded successfully	Pass		<a href="https://www.booking.com">Booking.com https://www.booking.com</a>	
2	Select check-in date	Date should be selectable and valid	Date selected successfully	Pass		Select a future date	
3	Select check-out date	Date should be selectable and after check-in	Date selected successfully	pass		Select a later date than check-in	
4	Select check-out date	Date should be selectable and before check-in	Date not select	Pass		Select a later date than check-in	
5	Select number of rooms	Rooms should be adjustable	Selection updated successfully	pass		1, 2, or more rooms	

6	Click "Search Rooms" button	System should show available rooms	Available rooms displayed	Pass			
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<b>Project Name:</b>	<b>Hotel Management System</b>	<b>Test Designed by:</b>	<b>D. S. Bhalara</b>
<b>Module Name:</b>	<b>Rent a Car</b>	<b>Test Designed date:</b>	<b>11-01-2025</b>
<b>Release Version:</b>	<b>1.0</b>	<b>Test Executed by:</b>	<b>R. B. Gondaliya</b>
		<b>Test Execution date:</b>	<b>15-02-2025</b>

Pre-condition: Web application should be accessible				
Test Case ID	Test Title	Test Type	Description	Test Case ID
TC_001	Verify Default Values	Functional	Verify that default values are pre-filled correctly in the booking form	TC_001
TC_002	Verify Car Brand Selection	Functional	Ensure users can select different car brands (All, Tesla, BMW, Ferrari)	TC_002
TC_003	Verify Pick-Up Location Selection	Functional	Ensure users can select a pick-up location	TC_003
TC_004	Verify Drop-Off Location Selection	Functional	Ensure the system prevents searching when required fields are missing	TC_004
TC_005	Verify Search Car Functionality	Functional	Ensure clicking "Search Car" returns available car options	TC_005
TC_006	Verify Search with Missing Fields	Functional	Ensure the system prevents searching when required fields are missing	TC_006

Test Case Title	Verify Search Car Functionality
Test Type	Functional
Test Priority	Medium
Pre-condition	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Open the car rental booking form	The form should load properly	Form loaded successfully	Pass		<a href="http://www.rentalcars.com">http://www.rentalcars.com</a>	

2	Select a car brand	The selected brand should be highlighted	Brand selection updated	Pass		Tesla, BMW, Ferrari, All	
3	Select pick-up location	Location should be selectable	Location updated successfully	Pass		Example: Dubai Airport	
4	Select drop-off location	Location should be selectable	Location updated successfully	Pass		Example: Dubai Silicon Oasis	
5	Click "Search Car" button	System should display available cars	Available cars displayed	Pass			

<b>Project Name:</b>	<b>Hotel Management System</b>	<b>Test Designed by:</b>	<b>D. S. Bhalara</b>
<b>Module Name:</b>	<b>Rent a Car</b>	<b>Test Designed date:</b>	<b>18-02-2025</b>
<b>Release Version:</b>	<b>1.0</b>	<b>Test Executed by:</b>	<b>R. B. Gondaliya</b>
		<b>Test Execution date:</b>	<b>22-02-2025</b>

**Pre-condition: Web application should be accessible**

Test Case ID	Test Title	Test Type	Description	Test Case ID
TC_001	Verify Floor Selection	Functional	Ensure users can switch between different floors (First Floor, Second Floor, etc.)	TC_001
TC_002	Verify Room Booking Functionality	Functional	Ensure users can book a room successfully	TC_002
TC_003	Verify Room Status Update	Functional	Ensure room statuses update correctly after check-in and check-out	TC_003
TC_004	Verify Dashboard Navigation	Functional	Ensure users can navigate between different modules (Dashboard, Front Office, Housekeeping, etc.)	TC_004
TC_005	Verify User Access Control	Security	Ensure different user roles (e.g., receptionist, manager) have appropriate access permissions	TC_005
TC_006	Verify Error Handling for Overbooking	Negative	Ensure the system prevents overbooking a room	TC_006

Test Case Title	Verify Room Booking Functionality
Test Type	Functional
Test Priority	Medium
Pre-condition	Web application should be accessible

Test Step	Test Case Description	Expected Result	Actual Result	Status	Comment	Data	Bug ID
1	Open the hotel room management system	The system should load properly	System loaded successfully	Pass			
2	Search for an available room	The search should return available rooms	Available rooms displayed	Pass		Room 102, Room 105, etc.	

3	Select a room to book	The selected room should be highlighted	Room selection updated	Pass		Example: Room 102	
4	Confirm the booking	System should confirm the booking and update room status	Booking confirmed, room marked as "Occupied"	Pass		Booking ID generated	
5	Verify room status in the dashboard	Room should be marked as "Occupied"	Status updated successfully	Pass			

## 7 References

- [http://www.w3schools.com/html/html\\_intro.asp](http://www.w3schools.com/html/html_intro.asp)
- <https://www.w3schools.com/php/default.asp>
- <https://www.javatpoint.com/uml>