UC Name	*Client Account Creation*
Summary	*Involves the process of creating a client account in the hotel system, allowing clients to manage their reservation and credentials.*
Dependency	*None*
Actors	*Primary Actor: Client*
Preconditions	*Client must agree to the terms and conditions.*
Description of the Main Sequence	● *Step 1: Client enters sign up page.* ● *Step 2: Client selects "Create new account".* ● *Step 3: Client enters their personal details.* ● *Step 4: The system validates the entered information.* ● *Step 5: After information validation system proceeds to create client account.* ● *Step 6: The system sends to the client a confirmation email with their account details.*
Description of the Alternative Sequence	● *Step 1: The entered email is associated with an existing account* ● *Step 2: The system redirects the client to log in or reset the password*
Nonfunctional requirements	*The system should prevent unauthorized access to accounts information, by encrypting their information.*
Postconditions	*The guest's account is successfully created, allowing the guests to log in and manage their reservations and information.*

UC Name	Check Availability
Summary	*Client checks the availability of rooms for specific dates in the hotel system.*
Dependency	*None.*
Actors	*Primary Actor: Client*
Preconditions	*None.*
Description of the Main Sequence	● *Step 1: Client accesses the room availability check feature in the system* ● *Step 2: Client selects the desired dates for their stay.* ● *Step 3: The system checks the database for available rooms for the selected dates* ● *Step4: The system displays the available rooms to the client*
Description of the Alternative Sequence	● *Step 1: There are no rooms available for the selected dates.* ● *Step 2: The system notifies the client that no rooms are available and may provide alternative dates*
Nonfunctional requirements	*The system must reflect real-time room viability to prevent overbooking.*
Postconditions	*The client views the viability of rooms.*

UC Name	Reservation Access
Summary	*Involves guests accessing their reservation detail, including check-in/check-out dates, rate and room type.*
Dependency	*Client Account Creation*
Actors	*Primary Actor: Client*

Preconditions	• *Client must have an active account in the system.* • *Client must be logged into their account.*
Description of the Main Sequence	● *Step 1: The client log in the system using their credentials.* ● *Step 2: The client navigates to the reservation section of the account* ● *Step 3: The system provides the guest with their reservation details.*
Description of the Alternative Sequence	● *Step 1: The client has no existing reservation.* ● *Step 2: System displays a message showing that there were no reservations found.*
Nonfunctional requirements	*System should efficiently retrieve and display reservation details.*
Postconditions	*The client successfully accesses their reservation details.*

UC Name	*Modification of Reservation*
Summary	*Clients modify their existing reservation within the system.*
Dependency	*Reservation Access*
Actors	*Primary Actor: Client*
Preconditions	*The client must be logged into their account* *The client must have accessed their reservation details.*
Description of the Main Sequence	● *Step 1: The client accesses their reservation details through their account.* ● *Step 2: The client selects the option to modify their reservation* ● *Step 3: The system provides modification options, like changing dates, room types etc.* ● *Step 4: The client selects the desired option.*

	● *Step 5: The system checks for viability* ● *Step 6: The system updates the reservation.* ● *Step 7: The client receives a confirmation of the modified reservation.*
Description of the Alternative Sequence	● *Step 1: The requested modification is not available.* ● *Step 2: The system notifies the client and provides additional options.*
Nonfunctional requirements	*The system should immediately update the reservation to prevent overbooking.*
Postconditions	*The client reservation is successfully modified and updated details are reflected in the system.*

UC Name	*Special Request Submission*
Summary	*The client submits special requests related to their reservation, such as room preferences or addition amenities.*
Dependency	*Reservation Access*
Actors	*Primary Actor: Client*
Preconditions	*The client must have logged in into their accounts*
Description of the Main Sequence	● *Step 1: The client accesses their reservation details through their account.* ● *Step 2: The client selects the option to submit special requests.* ● *Step 3: The client enters the details of their special requests.* ● *Step 4: The system records the special requests associated with the reservation.* ● *Step 5: The system provides the client with a confirmation of submission*
Description of the Alternative	● *Step 1: The clients decide not to submit any requests.*

Sequence	
Nonfunctional requirements	*Special requests submitted by clients must be handled securely to maintain privacy*
Postconditions	*Special requests submitted by the client are successfully recorded.*

UC Name	*Feedback Submission*
Summary	*Client provides feedback on their stay.*
Dependency	*This optional section describes whether the UC depends on other UCs.*
Actors	*Primary Actor: Client*
Preconditions	*The client must have completed their stay and have an active reservation history in the system.* *The client must be logged in their account*
Description of the Main Sequence	● *Step 1: The client accesses their reservation history through their account.* ● *Step 2: The client selects the reservation for which they want to provide feedback.* ● *Step 3: The client enters their feedback regarding their stay.* ● *Step 4: The system records the feedback provided by the client.*
Description of the Alternative Sequence	● *Step 1: The client decides not to provide feedback*
Nonfunctional requirements	*Analysis: The system should store feedback data for analysis.*
Postconditions	*Feedback provided by the guest is successfully recorded and stored in the system for analysis.*

UC Name	*Cancellation of Reservation*
Summary	*Involves client cancelling their existing reservation*
Dependency	*Reservation Access*
Actors	*Primary Actor: Client*
Preconditions	*The client must be logged into their account.*
Description of the Main Sequence	*Step 1: The client accesses their reservation details through their account.* *Step 2: The client selects the option to cancel the reservation.* *Step 3: The system checks the cancellation request if it is against the policy time constraints.* *Step 4: If the cancellation requests is within policy time constraints, the system cancels the reservation.*
Description of the Alternative Sequence	*Step 1: If the cancellation requests is outside the policy time constraints.* *Step 2: The system notifies the client that the reservation cannot be canceled.*
Nonfunctional requirements	*The system must enforce policy time constraints.* *The system should notify clients of the outcome of their cancellation request.*
Postconditions	*The client's reservation is successfully canceled within the policy time constraints, and the room becomes available for booking*

UC Name	*Update Reservation Calendar*
Summary	*Involves automatically updating the reservation calendar to reflect changes.*

Dependency	*None*
Actors	*Nonfunctional* *Client*
Preconditions	*The administrator and manager must have access to the system configuration settings.* *All data should be stored in a database*
Description of the Main Sequence	● *Step 1: The administrator configures the system to automate reservation calendar updates.* ● *Step 2: When a reservation is made by the front desk, the system automatically updates the reservation calendar.* ● *Step 3: When a reservation is created/modified/cancelled, the system automatically reflects the changes in the database.*
Description of the Alternative Sequence	*If there is a failure in updating the reservation calendar, the system generates an error notification.* *The administrator should intervene to resolve the issue.*
Nonfunctional requirements	*Reliability: The system must reliably update the reservation calendar to ensure accurate representation of bookings and room statuses.* *Real-time Updates:*
Postconditions	*The reservation calendar is accurately updated to reflect new bookings, cancellations, modifications.*