| UC Name | UC1: Add Receipts for Reservations |
| --- | --- |
| Summary | This use case involves generating and attaching receipts to reservations made by customers. |
| Dependency | This use case depends on successful reservation creation and payment processing. |
| Actors | Rental agents, Administrator |
| Preconditions | Reservation must be created, and payment must go through. |
| Description of the Main Sequence | * Step 1: The rental agent or administrator accesses the reservation details. * Step 2: The agent generates a receipt containing transaction information. * Step 3: The agent attaches the generated receipt to the reservation record. |
| Description of the Alternative Sequence | None |
| Non-functional Requirements | The system should generate receipts without any errors. |
| Postconditions | A receipt is added to the reservation, providing a record of the transaction. |

| UC Name | UC2:Send receipts to customer via email |
| --- | --- |
| Summary | This use case involves emailing generated receipts to customers after they successfully reserve. |
| Dependency | Depends on the successful generation of receipts. |
| Actors | System, Customers |
| Preconditions | Receipts must be generated, and sent to the customer. |
| Description of the Main Sequence | * Step 1: The system initiates the process of sending a receipt to the customer via email. * Step 2: The system attaches the generated receipt to the email. * Step 3: The system sends the email containing the receipt to the customer's provided email address. |
| Description of the Alternative Sequence | None |
| Non-functional Requirements | The system should send emails as quickly as possible, and ensure receipts are delivered without errors. |
| Postconditions | Customer receives the receipt via email, providing a digital record of the transaction. |

| UC Name | UC3: Process Payment |
| --- | --- |
| Summary | This use case involves handling payments being made for reservations by customers. |
| Dependency | Depends on successful reservation creation and available payment methods. |
| Actors | System, Customers |
| Preconditions | Customers must choose a payment method and they should continue with correct payment credentials. |
| Description of the Main Sequence | * Step 1: The customer selects a payment method. * Step 2: The customer enters payment details. * Step 3: The customer confirms the transaction. * Step 4: The system securely processes the payment. |
| Description of the Alternative Sequence | None |
| Non-functional Requirements | The payment processing system should be secure and capable of handling various payment methods. |
| Postconditions | Payment is successfully processed, and the reservation is automatically confirmed. |

| UC Name | UC4: Access customer information |
| --- | --- |
| Summary | This use case involves retrieving and viewing customer information stored in the system. |
| Dependency | Depends on user authentication and existing customer records. |
| Actors | Rental agents, Administrators |
| Preconditions | Users information can be accessed by administrators and rental agents |
| Description of the Main Sequence | * Step 1: The rental agent or administrator navigates to the customer information section. * Step 2: The user searches for the desired customer within the system. * Step 3: The user selects the customer from the search results. * Step 4: The system retrieves and displays the customer's information. |
| Description of the Alternative Sequence | None |
| Non-functional Requirements | The system should retrieve customer information swiftly and present it in a user-friendly interface. |
| Postconditions | Rental agent or administrator successfully views customer information. |

| UC Name | UC5: Check car location through GPS |
| --- | --- |
| Summary | This use case involves retrieving the real-time location of rental vehicles using GPS technology. |
| Dependency | Depends on GPS functionality and availability of GPS data for rental vehicles. |
| Actors | Rental agents, Administrators |
| Preconditions | Rental vehicles must be equipped with GPS tracking devices. |
| Description of the Main Sequence | * Step 1: The rental agent or administrator accesses the GPS tracking feature within the system. * Step 2: The user enters the vehicle identifier. * Step 3: The system retrieves the real-time location of the vehicle using GPS technology. |
| Description of the Alternative Sequence | None |
| Non-functional Requirements | The GPS tracking system should provide accurate and up-to-date location information with minimal delay. |
| Postconditions | Rental agent or administrator successfully retrieves the location of the rental vehicle. |

| UC Name | UC6: Notify Customers of Updates |
| --- | --- |
| Summary | This use case involves sending automated notifications to customers regarding updates related to their reservations or the rental process. |
| Dependency | Depends on reservation status changes and customer contact information. |
| Actors | System, Customers |
| Preconditions | Reservation status must change and updates must be available. |
| Description of the Main Sequence | * Step 1: The system identifies updates or changes relevant to the customer's reservation. * Step 2: The system prepares automated notifications containing the relevant information. * Step 3: The system sends the notifications to the customers via email or SMS. |
| Description of the Alternative Sequence | None |
| Non-functional Requirements | The notification system should be reliable, capable of delivering notifications promptly and accurately. |
| Postconditions | Customers receive notifications regarding updates to their reservations or rental process. |