**Use Case 1 - Car Rental Payment System**

**Scope:** Car Rental Payment System

**Level:** User Goal

**Primary Actor:** Employee

**Stakeholders and Interests:**

* Employee: Wants accurate, fast, and no errors when processing payment.
* Customer: Wants purchase and fast service with minimal effort. Wants a well-organized display of items purchased and total cost.
* Company: Wants to accurately record transactions and satisfy customer interests.

**Preconditions**: Employee is identified and authenticated.

**Success Guarantee (or Postconditions)**: Sale is saved, tax is correctly calculated, inventory is adjusted, receipt is generated.

**Main Success Scenario**:

1. Customer arrives at checkout
2. Employee uses POS and records the rental purchase.
3. The system displays the total cost of the purchase along with the items purchased.
4. The system asks user for type of payment (cash, debit, credit).
5. User pays using their preferred method of payment.
6. System validates the transaction and makes a record and updates the inventory.
7. The user receives a receipt from the system (either printed or email receipt).

**Extensions (Alternative flows)**:

\*a. System failure:

1. Ensure that all transactions and events can be recovered

2. Employee restarts System, logs in, and requests recovery of prior state

\*b. Invalid item ID

1. System signals error and rejects entry

2. Employee responds to error, manually enters in ID

3. Employee continues with sale

**Use Case 2 – View Catalog**

**Scope:** Vehicle Catalog

**Level:** User Goal

**Primary Actor:** Customer

**Stakeholders and Interests:**

* Customer: Wants to have easy access to view the list of rental vehicles.
* Company: Wants to provide customers with ability to view list of rental vehicles and satisfy the customer.

**Preconditions:** User has a login account

**Success Guarantee (Postconditions):** The user gains access to the list of rental vehicles.

**Main Success Scenario:**

1. User navigates to the website
2. The webpage prompts the user to login
3. The webpage displays the rental cars available.
4. The webpages displays the most popular rental vehicles at top (Based on view count).
5. User clicks on their desired cars
6. The webpage shows specific car details and information.
7. The user may return to the previous page and continue browsing
8. The user logs out when they are finished.

**Extensions (Alternative Flows):**

\*a. Website crashes

1. Tech team works to fix the crash and get the website running again

1a. Customer unable to view car details

1. The user refreshes the browser page
2. The webpage displays car details properly

**Use Case 3 – Vehicle Pickup**

**Scope:** Vehicle Pickup

**Level:** User Goal

**Primary Actor:** Customer

**Stakeholders and Interests:**

* Customer: Wants to have easy access to rental vehicle pickup without any issues.
* Company: Wants to provide customers with easy process for rental vehicle pickup

**Preconditions:** Customer has a valid driver’s license and is capable of operating a motor vehicle.

**Success Guarantee (Postconditions):** The customer leaves with their rental vehicle.

**Main Success Scenario:**

1. Customer arrives at location of car pickup.
2. Customer finds a parking spot and parks.
3. The customer meets with the employee and views the vehicle.
4. The customer accepts the vehicle and receives the keys.
5. The system updates the inventory.
6. The customer leaves the place with their rental car.

**Extensions (Alternative Flows):**

1a. If the chosen vehicle is unavailable

1. Another vehicle may be chosen instead.

2a. The user declines their rental vehicle

1. The employee moves the rental vehicle back in inventory.