Dan’s Rent-a-Jeep

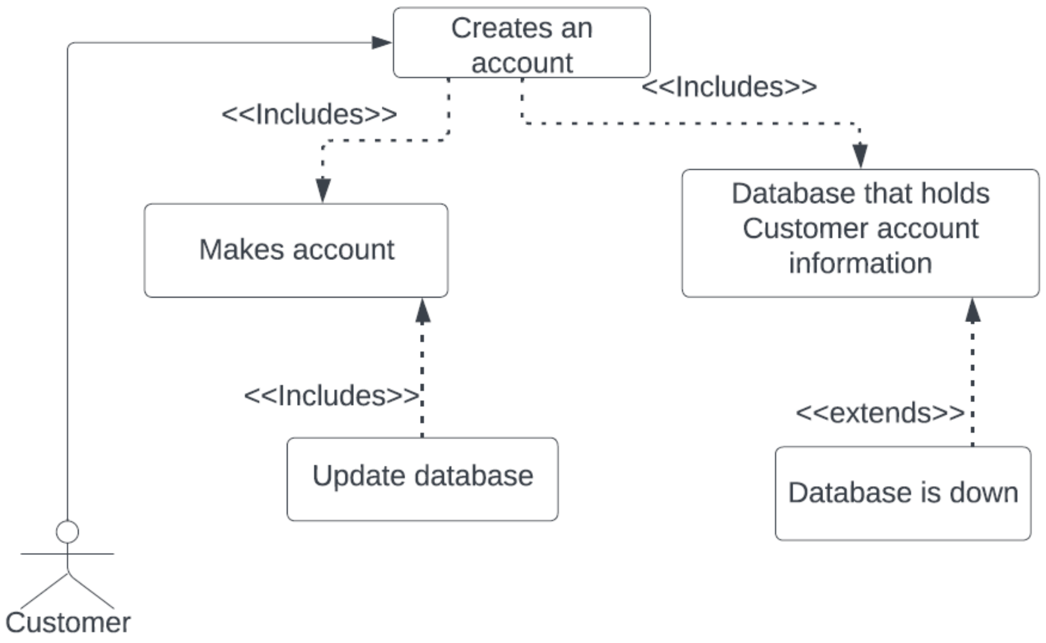
1. **Introduction and Context**

It’s hard not to love to drive a Jeep, but it’s often not practical for everyone to own one. This is a problem that Dan’s Rent-A-Jeep aims to solve by providing an affordable vehicle rental service of only the finest Jeeps.

In order to manage the operations of this business, this system will allow customers to choose between three tiers of Jeep offerings – Sport (basic), Sahara (intermediate), and Rubicon (luxury). Customers will be able to choose and pay to reserve any available vehicles in the system. They will be given a reservation code to preset to a lot attendant when they arrive to pick up their Jeep

The system will also give access to the lot attendant to check customer reservations, assign late fees to customers when appropriate, and cancel reservations for customer no-shows. It will also allow vehicle recovery specialists to get details on the info and GPS location of checked out vehicles. Finally, the system will give managers and owners access to higher level features such as adding or removing vehicles from inventory and processing payroll.

2. **Users and their Goals**



Participating role: Customer

Entry Conditions:

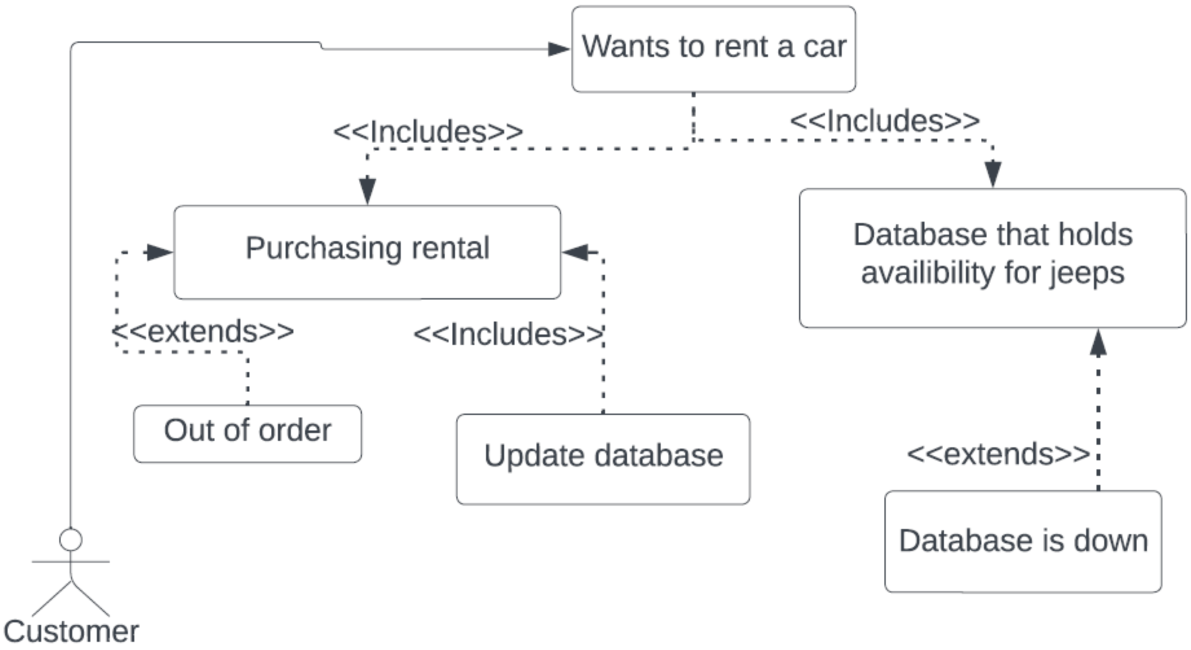
- Wants to create an account

Exit Conditions:

- Creates an account
- Decides to not create an account.

Event Flow:

1. Navigate to website
2. Click on create account
3. Enters valid information
4. Account is created



Participating role: Customer

Entry Conditions:

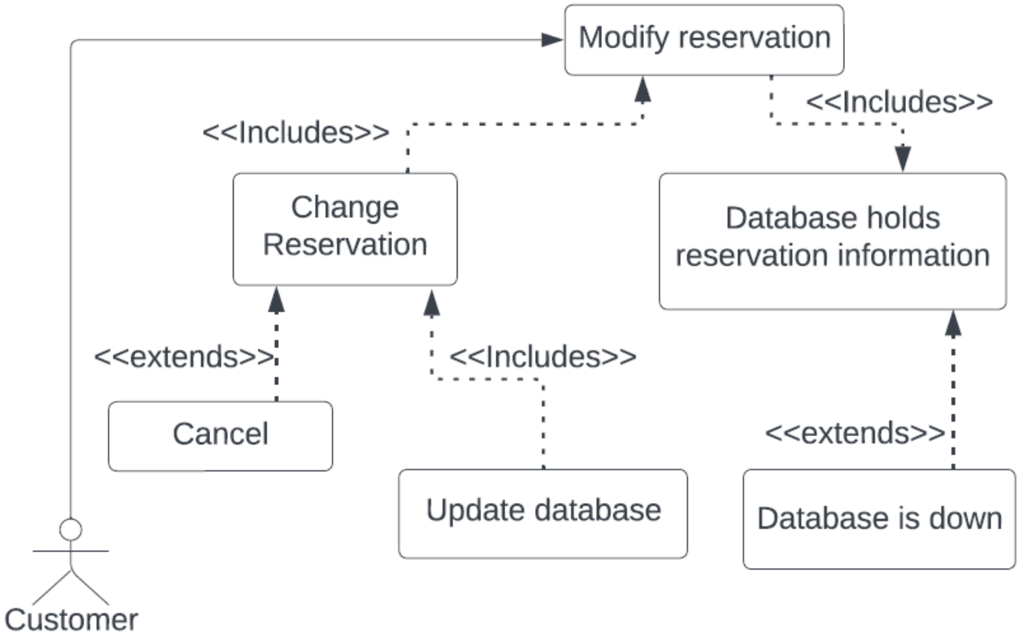
- Wants to rent a Jeep

Exit Conditions:

- Makes a reservation for a Jeep
- Decides not to reserve a Jeep at this time

Event Flow:

1. Clicks on rent a Jeep
2. Show 3 different types of Jeeps and prices
3. Customer chooses type of jeep
4. Shows availability of certain types of jeep.
5. Customer chooses dates for reservation
6. Customer pays for reservation
7. Emails customer confirmation code



Participating role: Customer

Entry Conditions:

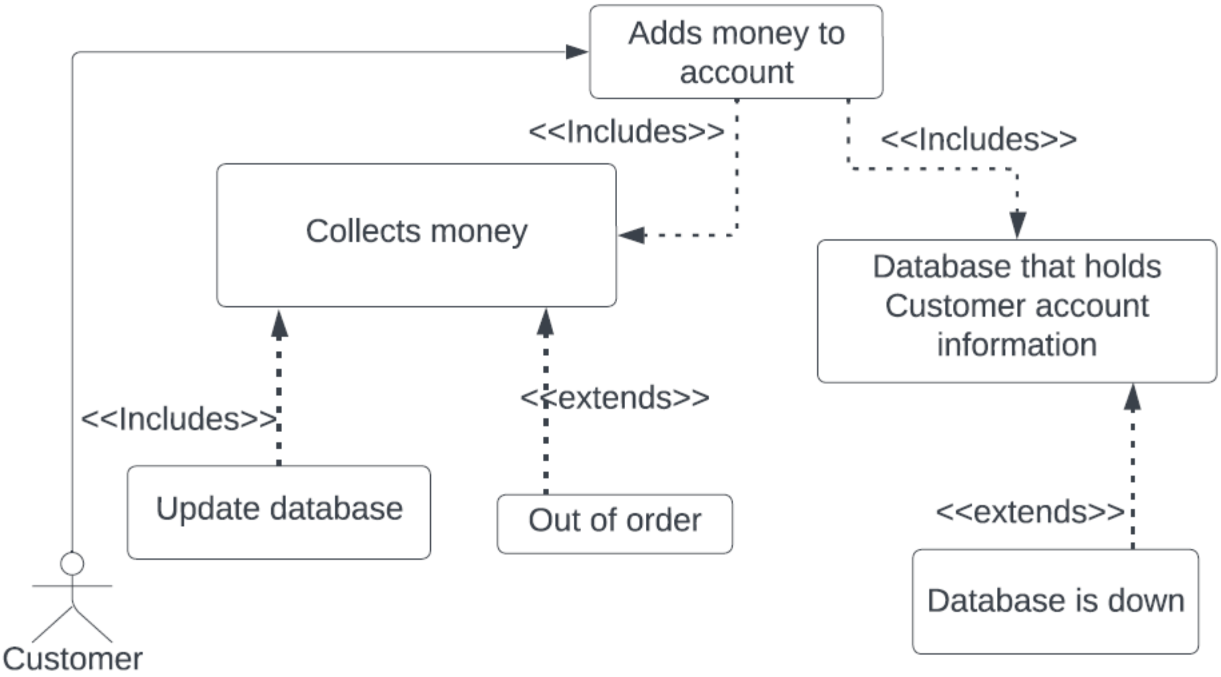
- Customer wants to modify their reservation

Exit Conditions:

- Customer modifies reservation
- Customer doesn't have enough money for the changes
- No changes to the reservation where made

Event Flow:

1. Customer clicks on modify reservation
2. Customer choose to change type of jeep or dates
3. Shows availability for type of jeep or dates.
4. Customer makes changes
5. Customer pays for changes, If not enough money for changes sends to wallet
6. Send an email for confirmation of changes.



Participating role: Customer

Entry Conditions:

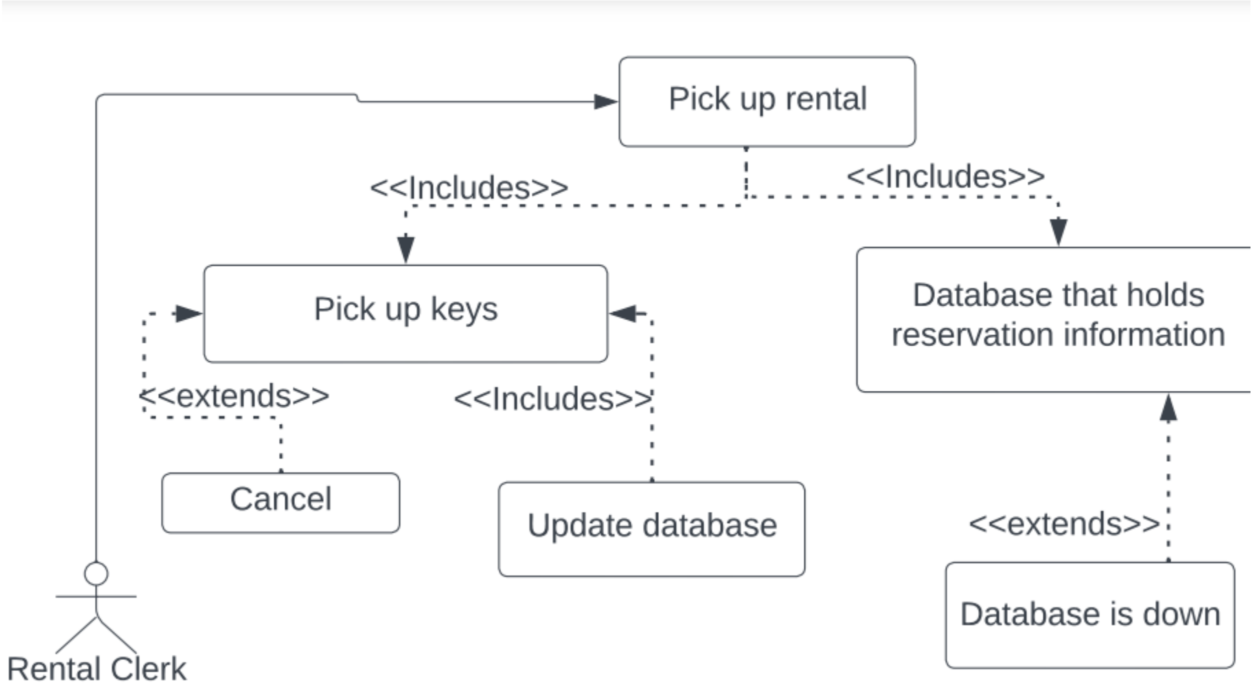
- Customer wants to add money to account

Exit Conditions:

- Adds money to account
- Decides not to add money to account

Event Flow:

1. Customer clicks on add money
2. Shows how much money is in account
3. Customer inputs how much money they would like to add
4. Show new amount of money in the account



Participating role: Rental Clerk

Entry Conditions:

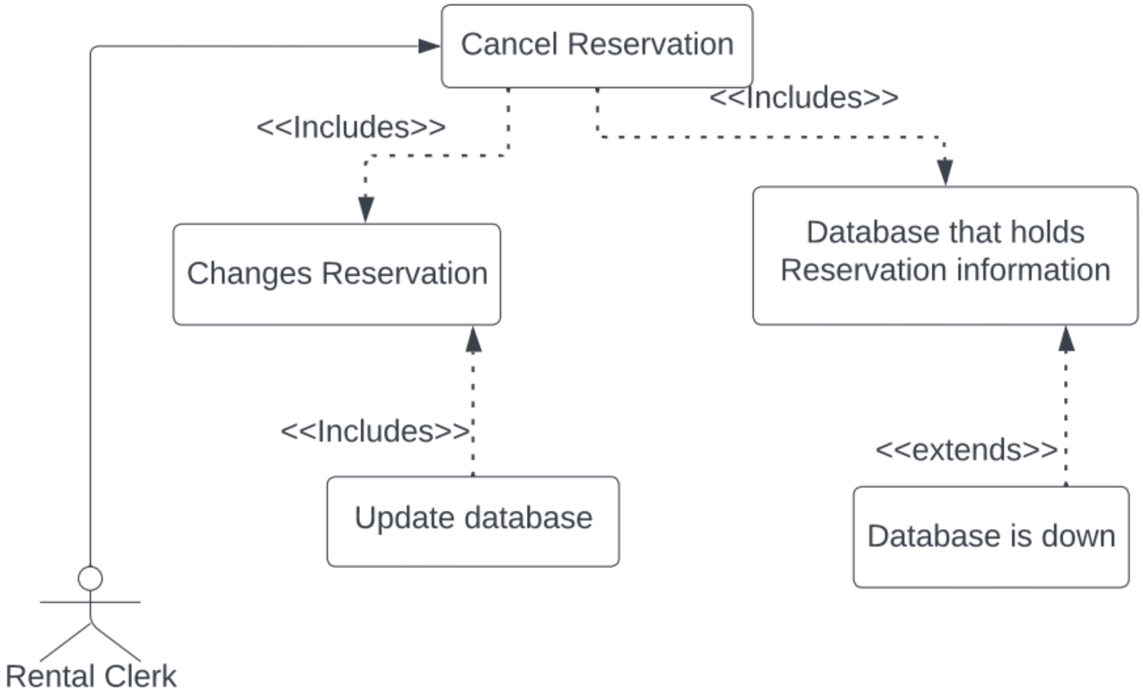
- Customer is here to pick up rental

Exit Conditions:

- Complete rental process and give keys to customer

Event Flow:

1. Customer comes to pick up rental Jeep
2. Clerks opens up reservation for that day
3. Clerk finds reservation
4. Customer show confirmation email
5. Clerk hands key for rental Jeep to customer



Participating role: Rental Clerk

Entry Conditions:

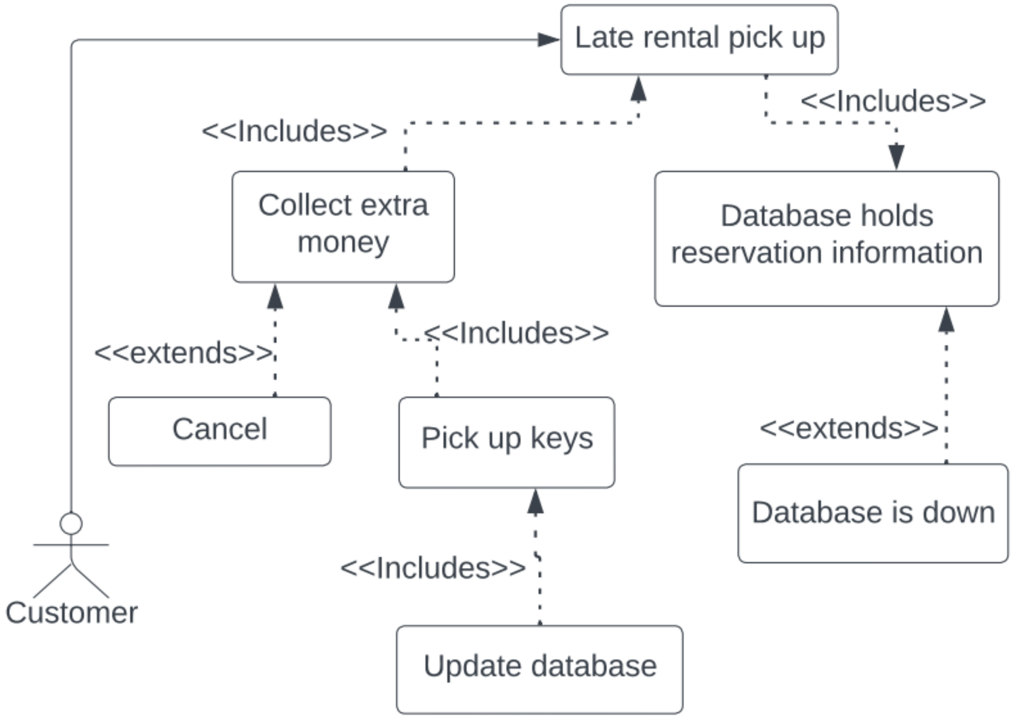
- Customer didn't show up

Exit Conditions:

- Cancel customer's reservation for no-show

Event Flow:

1. Clerk clicks on reservations
2. Show all the reservations for the day
3. Find reservation for the customer that didn't show up
4. Selects that reservation
5. Clicks cancel reservations.
6. Reservation is removed from the system



Participating role: Rental Clerk

Entry Conditions:

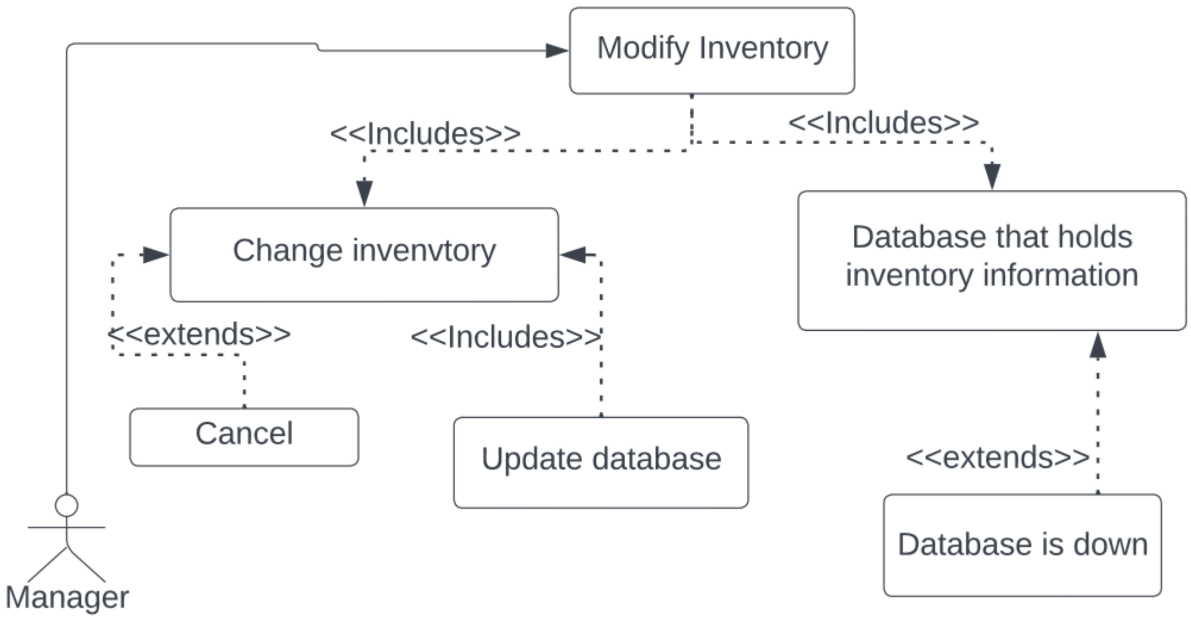
- Customer is here to pick up rental late

Exit Conditions:

- Complete rental process, charge extra and give keys to customer

Event Flow:

1. Customer comes to pick up rental Jeep late
2. Clerks opens up reservation for that day
3. Clerk finds reservation
4. Customer show confirmation email
5. Clerk clicks late pick up and charges customer extra
6. Customer pays extra for late pick up
7. Clerk hands key for rental Jeep to customer



Participating role: Manager

Entry Conditions:

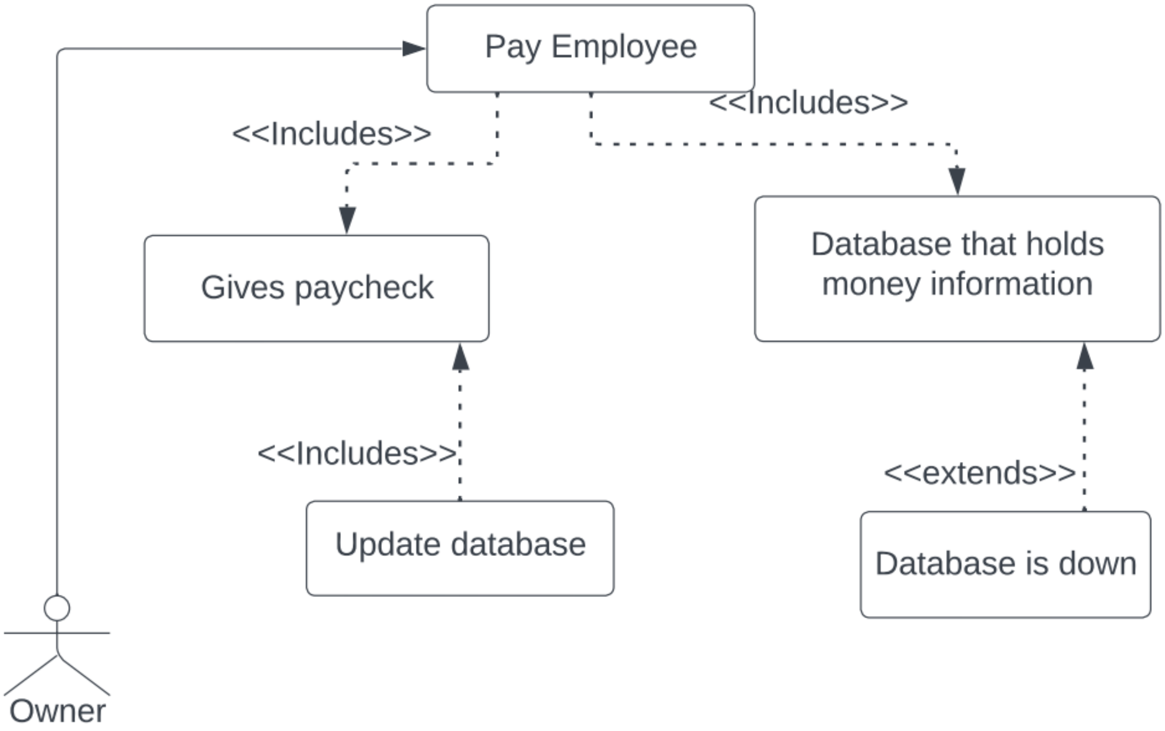
- Manager wants to modify inventory

Exit Conditions:

- Manager makes changes inventory
- Manager decides not to change inventory

Event Flow:

1. Manager selects modify inventory
2. Manager chooses to add or remove Jeeps from inventory
3. Manager modifies the inventory
4. Saves changes to the inventory



Participating role: Owner

Entry Conditions:

- Owner Needs to pay employee

Exit Conditions:

- Owner pays employee

Event Flow:

1. Owner selects employee
2. Owner check how many hours employee works and get paid $15 per hour
3. Owner gives employee paycheck

3. **Functional Requirements**

1. User Authentication and Access
   1.1. Users must authenticate before gaining access to the system.
      1.1.1. If a new user is logging in for the first time, the system will allow the user to set up a new account with a custom username, password, and their email.
      1.1.2. System will continue to prompt users for their credentials if they enter the incorrect username/password combination.
         1.1.2.1. More than 5 repeated attempts to log in will lock user access until a Rental Clerk unlocks their account.
   1.2. Users may be assigned any of the following roles: Customer, Rental Clerk, Manager, Owner.
      1.2.1. Users with Customer role will have access to Customer features (see FR #3)
      1.2.2. Users with Rental Clerk role will have access to Rental Clerk features (see FR #4)
      1.2.3. Users with Manager role will have access to Manager features (see FR #5)
      1.2.4. Users with Owner role will have access to Owner role (see FR #6)

2. User Profile Features
   2.1. System should allow users to edit their profiles
      2.1.1. Profile editing will allow password changes
      2.1.2. Profile editing will allow email address changes
      2.1.3. Users should not be allowed to modify other users profiles
   2.2. The system should allow users to check their account balance
   2.3. The system should allow users to add funds to their account
      2.3.1. No real money required, a simple text field and button will allow users to add funds to their account
   2.4. The system should allow users to remove funds from their account

3. Customer Features
   3.1. All users will have Customer rights and features
      3.1.1. Customers will be able to use the system to make a Jeep rental reservation
         3.1.1.1. System will offer 3 different types of Jeeps for the Customer to choose from, the Customer should be able to make a selection among those choices
            3.1.1.1.1. System will show the availability of each type of Jeep
            3.1.1.1.2. System will allow Customer to choose the dates they wish to rent the chosen Jeep for their reservation
            3.1.1.1.3. System will prompt user to pay for their Jeep reservation
            3.1.1.1.4. System will email the user a confirmation code

3.1.2. Customers will be able to observe and modify previously made reservations

3.1.2.1. Allow Customer to make changes to the type of Jeep and dates for their reservation

3.1.2.1.1. Require customer to pay adjusted balances for their modified reservation

3.1.2.1.2. Send a new email with a confirmation code if the Customer successfully modifies their reservation

4. Rental Clerk Features

4.1. Only users with the Rental Clerk role will have Rental Clerk rights and features

4.1.1. Rental Clerks will be able to use the system to process rentals that customers have made

4.1.1.1. System will allow Rental Clerks to retrieve and confirm Customer reservations based off their provided reservation code they were emailed

4.1.1.2. System will allow Rental Clerks to cancel reservations for customers that no-show

4.1.1.2.1. System will show all reservations for that day and give ability to remove those reservations

4.1.1.3. System will allow Rental Clerks to process a rental return and apply any necessary additional charges for the rental

5. Manager Features

5.1. Only users with the Manager role will have Manager rights and features

5.1.1. System will allow Managers to modify the Jeep inventory

5.1.1.1. System will give ability for Managers to add or remove Jeeps from inventory

6. Owner Features

6.1. Only users with the Owner role will have Owner rights and features

6.1.1. System will allow Owners to handle payroll for all the company’s employees

6.1.1.1. System will grant Owners ability to view and select from a list of employees

6.1.1.1.1. System will display number of hours the selected employee has worked

6.1.1.1.2. System will give ability to pay selected employee for their hours worked at a rate of $15/hr

4. **Non-Functional Requirements**

   1. System will use a database
      - Database will store user account information

        1.○.1.A user account will hold the following information: username, password, email, account balance
      - Database will store lot inventory information

        1.○.1.The lot inventory will hold the following information: complete Jeep inventory, information on the real-time availability of each Jeep
   2. Project team will use the following resources in development:
      - Jira board for planning and executing sprints as a team
      - Github repository for storing project code
      - Google drive for holding WIP documents
      - Discord server for day to day communications and stand up meetings
   3. The system must be deployable

5. **Future Features**

This section contains possible features to support in future versions after core project functionality is reached.

1. Make application mobile-friendly

2. Ability to store and retrieve GPS coordinates of each reserved vehicle and display on a map

3. Option to add insurance to customer Jeep rentals

6. **Glossary**

    - *Customer* - a user that uses the system to make reservations for Jeep rentals
    - *Rental Clerk* - a user that uses the system to process reservations made by Customers
    - *Manager* - a user that uses the system to manage the rental lot’s inventory
    - *Owner* - a user that uses the system to process employee payroll (relevant only to other Rental Clerk, Owner, and Manager users)
    - *User* - anyone that is given any level of access to the system. Access is only granted upon the creation of a valid profile and by providing the correct credentials