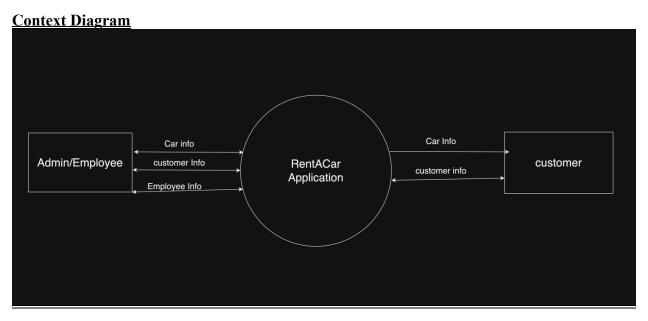
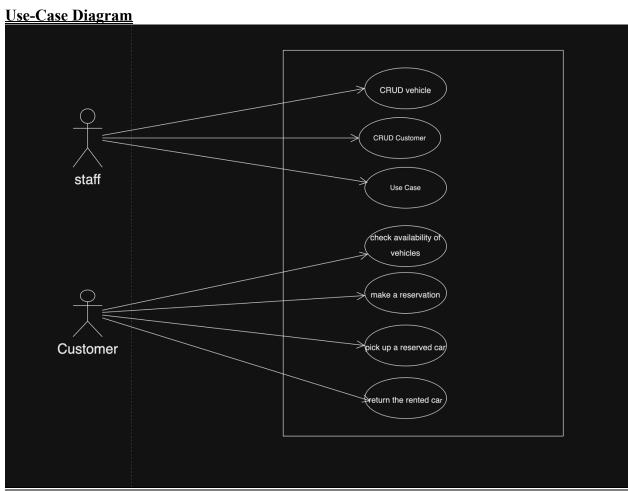
Context diagram and the Use-Case diagram





User Stories

- 1. As a car rental staff, I want to add a new vehicle to the rental fleet so that it becomes available for customers.
- 2. As a customer, I want to check the availability of vehicles based on my specified criteria like date, location, and vehicle type so that I can make a reservation.
- 3. As a customer, I want to pick up a reserved car at the rental location so that I can start using it.
- 4. As a customer, I want to return the rented car to the rental location so that I can complete my rental.
- 5. As an admin, I want to add, remove, update, and find customers in the car rental application so that customer records are accurate and up to date.
- 6. As a car rental staff, I want to calculate rental charges accurately based on the duration of the rental period and any additional charges.

Acceptance Criteria

User Story 1: Add a New Vehicle

- o Admin should be able to access the "Add Vehicle" feature.
- o Required vehicle details (make, model, year, registration number) must be provided.
- o Upon submission, the vehicle should be added to the rental fleet.
- o The system should display a confirmation message upon successful addition.

User Story 2: Check Vehicle Availability

- o Customers should be able to access the "Check Availability" feature.
- o Criteria such as date, location, and vehicle type should be provided for the search.
- o The system should display a list of available vehicles meeting the specified criteria.
- o Availability status should be updated in real-time to prevent double bookings.

User Story 3: Pick Up Reserved Car

- o Customers should be able to pick up their reserved car at the rental location.
- The system should verify the customer's reservation and allocate the corresponding vehicle.
- Staff should process any necessary paperwork (e.g., rental agreement) efficiently.
- o Payment details should be confirmed before handing over the car to the customer.

Main Scenario

User Story 1: Add a New Vehicle

- 1. Admin navigates to the "Add Vehicle" section.
- 2. Admin fills in the required details for the new vehicle (make, model, year, registration number).
- 3. Admin submits the form.
- 4. System validates the input and adds the vehicle to the rental fleet.
- 5. Confirmation message is displayed.

User Story 2: Check Vehicle Availability

- 1. Customer accesses the "Check Availability" feature.
- 2. Customer specifies the criteria (date, location, vehicle type) for the search.
- 3. System retrieves and displays a list of available vehicles meeting the criteria.
- 4. Customer selects a preferred vehicle.
- 5. System updates availability status in real-time.

User Story 3: Pick Up Reserved Car

- 1. Customer arrives at the rental location to pick up the reserved car.
- 2. Staff member verifies the customer's reservation.
- 3. Staff allocates the corresponding vehicle to the customer.
- 4. Necessary paperwork (e.g., rental agreement) is processed.
- 5. Customer confirms payment details.
- 6. Staff hands over the car keys to the customer.