Use Case 1: Mark Vehicle as Rented

- Actors: Dealer Staff
- Preconditions:
 - o Vehicle exists in system
 - o Vehicle is currently available
 - o Vehicle is not a sports car
- Postconditions:
 - o Vehicle status changes to "ON_RENTAL"
 - Rental start date is recorded
 - o Vehicle no longer appears in available inventory
- Basic Flow:
 - o Dealer staff selects a vehicle from available inventory
 - System verifies vehicle is eligible for rental
 - o Staff confirms rental action
 - System updates vehicle status to "ON_RENTAL"
 - System records rental start date
 - System confirms successful rental status change
- Alternative Flows:
 - o If vehicle is a sports car, system displays error message about rental restriction
 - o If vehicle is already rented, system displays appropriate error message

Use Case 2: Return Rented Vehicle

- Actors: Dealer Staff
- Preconditions:
 - o Vehicle exists in system
 - o Vehicle is currently marked as "ON RENTAL"
- Postconditions:
 - o Vehicle status changes to "AVAILABLE"
 - o Rental end date is recorded
 - o Vehicle appears in available inventory
- Basic Flow:
 - o Dealer staff selects a vehicle from rented inventory
 - Staff selects "Return Vehicle" option
 - System prompts for confirmation
 - Staff confirms return action
 - o System updates vehicle status to "AVAILABLE"
 - O System records rental end date
 - System confirms successful return
- Alternative Flows:
 - o If vehicle is not found, system displays error message
 - o If vehicle is not currently rented, system displays appropriate error message

Feature 2: Enhanced Data Persistence

Use Case 3: Save Application State

- Actors: System
- Preconditions:

o Changes made to application data

• Postconditions:

o All changes are persisted to storage

• Basic Flow:

- O System detects change in application state
- o System serializes current state to JSON
- o System writes data to persistent storage
- o System confirms successful save

• Alternative Flows:

o If save fails, system logs error and notifies user