Acceptance Criteria

- As a student, I want to browse available cars, so that I can find a suitable option.
 - When I select the "Browse Cars" option, I can see a list of all cars currently available for rent.
 - When I select a car from the list, I can view detailed information including car type (e.g., sedan, SUV), price per day, availability dates, and pickup location.
 - When another user books a car I am viewing, the system updates the availability status in real time, removing unavailable cars from my list or marking them as "reserved."
 - When I browse available cars from a mobile device or desktop, the interface is user-friendly, readable, and fully functional on both platforms.
 - When no cars are available matching my criteria, the system displays a clear message (e.g., "No cars available for your selection") instead of an empty list.
- As a student, I want to filter rental cars by price, type, fuel, and location, so that I can choose a car within my budget
 - When I set a price range filter (e.g., \$20–\$50 per day), the system updates the list to show only cars within my specified budget.
 - When I select a car type filter (e.g., sedan, SUV, hatchback), the system updates the list to display only cars matching the chosen type.
 - When I choose a fuel type filter (e.g., gasoline, electric, hybrid), the system updates the list to show only cars with the selected fuel type.
 - When I specify a location filter (e.g., city or rental branch), the system updates the list to show only cars available at that location.
 - When I apply multiple filters together (e.g., price under \$30, sedan, electric, at a specific branch), the system combines them and displays only cars meeting all selected criteria.
 - When I adjust or remove any filter, the system immediately updates the car list to reflect my new preferences.
 - When there are cars matching my filter criteria, the updated list includes at least one option I can choose within my budget.
- As a student, I want to check car availability, so that I can plan my rental accordingly
 - When I access the car rental system and select the "Browse Cars" or "Check Availability" option, I can see a list of cars with their current availability status (e.g., "Available," "Reserved," "In Maintenance").
 - When I view a car's details, the system displays its availability for specific dates or time periods (e.g., "Available from March 5 to March 10").

User Story 1: "As a student, I want to browse available cars, so that I can find a suitable option"

Main Scenario

- 1. The student accesses the Car Rental System through a website or app.
- 2. The student selects the "Browse Cars" option from the main menu.
- 3. The system displays a list of all cars currently available for rent, showing basic details like car type and price per day.
- 4. The student reviews the details and finds the car suitable for their needs.
- 5. The student decides to proceed with booking or continues browsing other options.

User Story 2: "As a student, I want to filter rental cars by price, type, fuel, and location, so that I can choose a car within my budget"

Main Scenario

- 1. The student opens the Car Rental System on their phone or computer.
- 2. The student sets the price filter to "\$20–\$30 per day," selects "sedan" as the car type, chooses "electric" as the fuel type, and picks "Downtown Branch" as the location.
- 3. The system processes the filters and updates the list within 3 seconds, displaying only electric sedans available at the Downtown Branch for \$20–\$30 per day.
- 4. The student sees a car in the list that matches their criteria (e.g., an electric sedan for \$28/day).
- 5. The student selects the car to view its details, confirming it fits their budget and preferences.
- 6. The student decides they have found a suitable car within their budget and proceeds to the next step (e.g., booking or saving the option).

User Story 3: "As a student, I want to check car availability, so that I can plan my rental accordingly"

Main Scenario

- 1. The student visits the Car Rental System via a browser or app.
- 2. The student selects the "Check Availability" or "Browse Cars" option from the interface.
- 3. The system shows a list of cars with their current availability status (e.g., "Available," "Reserved").
- 4. The student enters a desired rental period (e.g., March 5 to March 7) and selects a pickup location (e.g., "Campus Branch").
- 5. The student selects a car from the list (e.g., a hatchback marked "Available").
- 6. The system displays the car's availability details, confirming it is free for the entire requested period and showing the pickup location.

| The student verifies the availability aligns with their plans and chooses to proceed with booking or notes the details for later. |
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