Requirements

- R1 The CRS must allow customers to search for desired rental cars using a user-friendly web user interface (WUI).
    - o R1.1 The CRS WUI must provide drop-down menus or selection lists for entering the selection criteria whenever applicable.
    - o R1.2 The CRS WUI must allow customers to specify customer specific selection criteria (for example using an "Other" text field).
    - o R1.3 The CRS WUI must display the search results using a tabular listing of cars with summary descriptions on a single line and with a link to a detailed description of the car.

- R2 The CRS must allow customers to reserve cars using a user-friendly WUI.
    - o R2.1 The CRS must allow customers to reserve cars by clicking a "Reserve Car" link in the summary view or the detail view as described in R1.
    - o R2.2 The CRS must allow customers to enter contact information to make reservations.
    - o R2.3 The CRS must automatically populate car information in the reservation form.
    - o R2.4 The CRS must generate and email a confirmation message to the customer using the contact information provided.

- R3 The CRS must allow customers to check out a car using a user-friendly WUI.
    - o R3.1 The CRS must allow customers to view reservations using a confirmation number.
    - o R3.2 The CRS must allow customers to check out cars by clicking a "Checkout Car" link in the view detail page specified in R1.3 or on the view reservation page specified in R3.1.
    - o R3.3 The CRS must automatically populate car information and charges in the online check out form.
    - o R3.4 The CRS must allow the customer to enter/select payment information.
    - o R3.5 The CRS must allow the customer to specify time and location for car delivery (delivery is free of charge within five miles from the car rental company location).

- R4 The system shall allow users to select one or more combinations of vehicle model and make.
    - o R4.1   The system shall notify user if selected vehicle is available for rent.
    - o R4.2   The system shall notify user if selected vehicle is not currently available for rent.
        - ▪ R4.2.1   The system shall allow user to make another selection if selected vehicle is not available.
        - ▪ R4.2.2. The system shall suggest other vehicles of similar models but of different makes if selected vehicle is not available.

- R5 The system shall allow users to select vehicle return location.
    - o R5.1 The system shall allow users to select same location as pick-up location.
    - o R5.2 The system shall allow users to select a location different from pick-up location.
        - ▪ R5.2.1 The system shall display available locations.
        - ▪ R5.2.2 The system shall notify user the selection of a different location will result in an additional cost.

Use Case-Requirement Traceability Matrix

Requirement	Priority	UC1	UC2	UC3	UC4	UC5
R1	1	X				
R2	2		X			
R3	3			X		
R4	4				X	
R5	5					X
UC Priority		1	2	3	4	5

Expanded Use Cases

UC1	Search Vehicles
Actor: Customer	System: CRS
	0. System displays drop down menus, selection lists, or a text area for specific vehicle selection criteria.
1. TUCBW Customer clicks drop down menus, selection lists, or enters information manually.	2. System displays all available search options. *
3. Customer makes a selection and clicks "Search".	4. System displays all vehicles that match search criteria. *
5. TUCEW Customer sees search results.	

UC2	Reserve Vehicle
Actor: Customer	System: CRS
	0. System displays vehicle information.
1. TUCBW Customer clicks "Reserve Car" link.	2. System displays Reserve Vehicle information form. *
3. Customer fills out form and clicks "ok".	4. System sends confirmation e-mail. *
5. TUCEW Customer receives confirmation e-mail.	

UC3	Checkout Vehicle
Actor: Customer	System: CRS
	0. System displays vehicle information.
1. TUCBW Customer clicks "Checkout Car" link.	2. System displays Checkout Car information form.
3. Customer fills out Checkout Car form and clicks "ok".	4. System prompts Customer for payment information.
5. Customer enters payment information.	6. System validates payment information and displays confirmation message. *
7. TUCEW Customer receives confirmation.	