

System Requirement Documentation

INFO-C450

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Customer Problem Statements and System Requirements

Problem Statement:

Customers of car rental services often face difficulties when attempting to book a rental based around the in-store experience. By the time the customer steps into the store the selection of available vehicles may be limited. The rental provider may lack transparency in their pricing model. The time spent in the store can be drawn out and arduous. An online system that allows customers to browse available vehicles and lock in their selection and price ahead of time could alleviate these difficulties.

Glossary of Terms:

Customer: User of the system

Car: Vehicle that can be selected for rental

Rental Length: Number of days the rental is being booked for

Functional and Nonfunctional Requirements

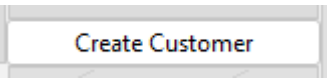
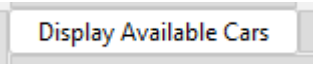
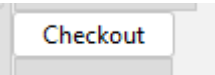
Functional Requirements:

No.	Priority Weight	Description
Availability	High	Check to see what cars are available for rental in real-time
New Customer	High	Ability to create new customer registration in system
Price	Medium	Ability to see/set prices based on vehicle

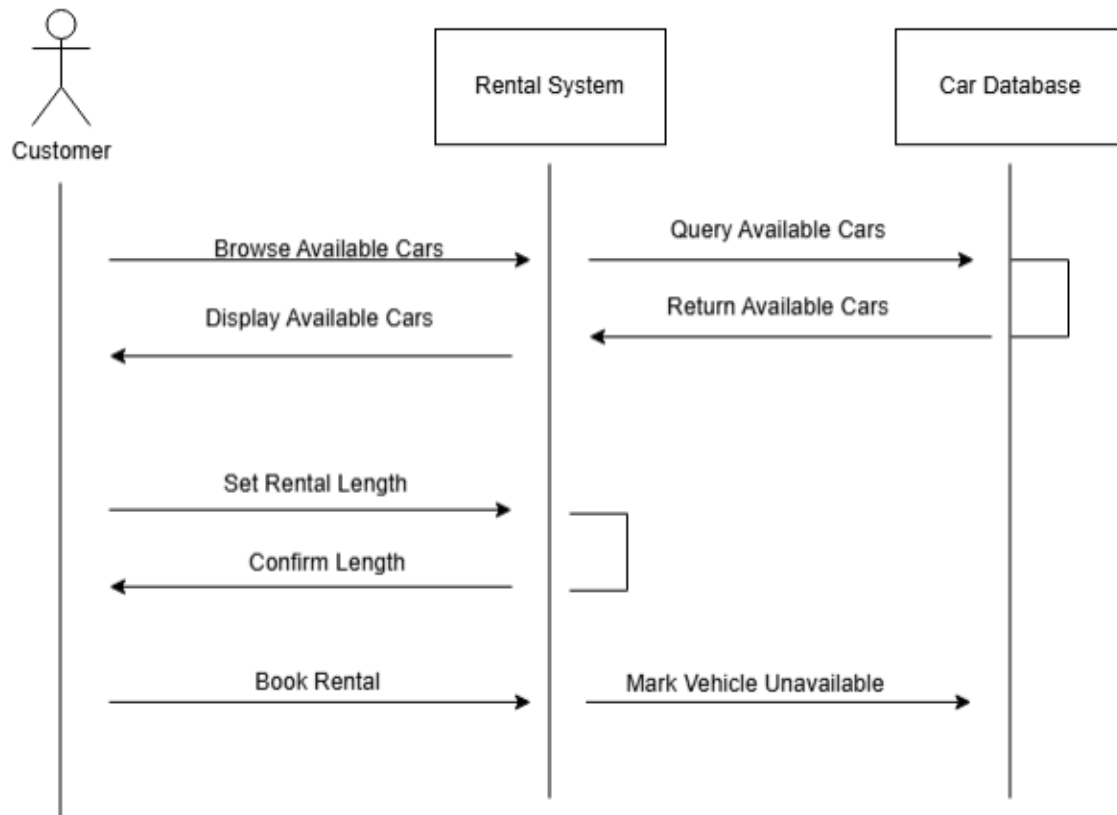
Nonfunctional Requirements:

No.	Priority Weight	Description
Downtime	High	Keep downtime to a minimum and system availability high
Scalability	Medium	Make system scalable to meet customer demand and car inventory
Security	High	Keep customer data safe and secure

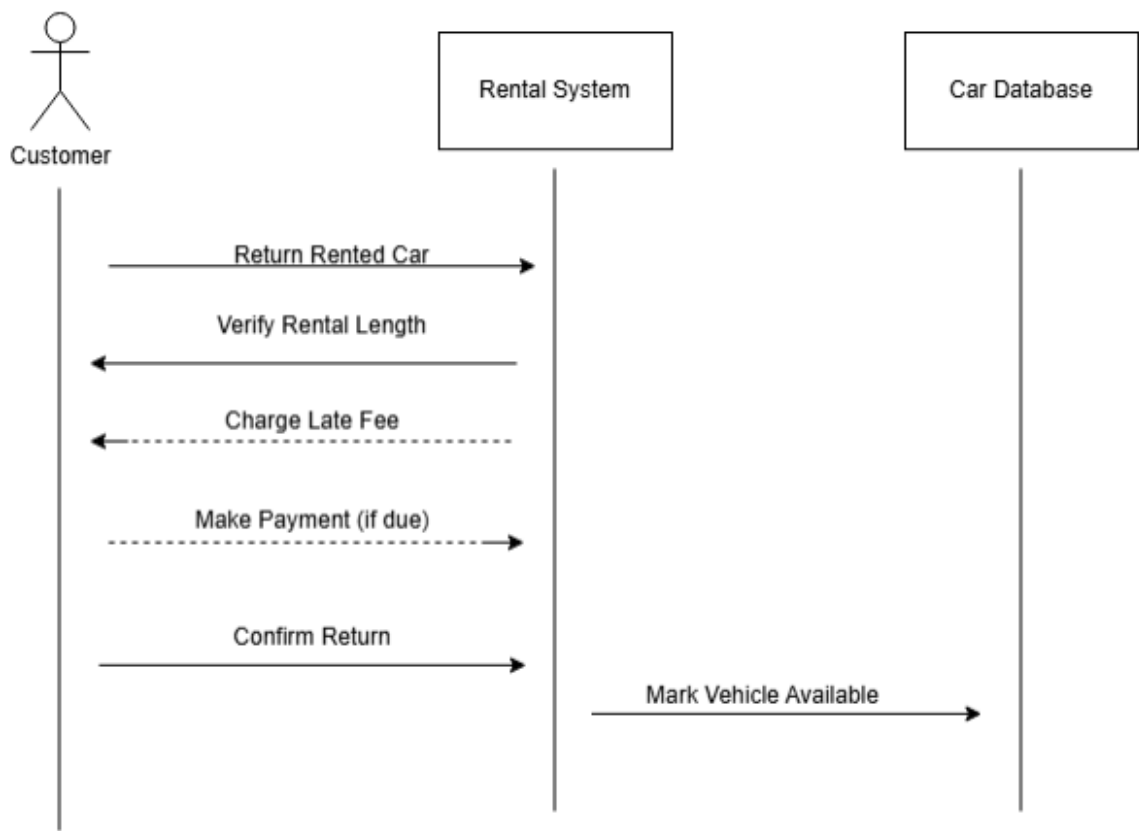
User Interface Requirements:

No.	Priority Weight	Description
Create Customer	High	Button to add Customer registration info to database 
Check Availability	Medium	Button to see cars available for rental 
Checkout	High	Button to calculate cost with length of rental and secure booking 

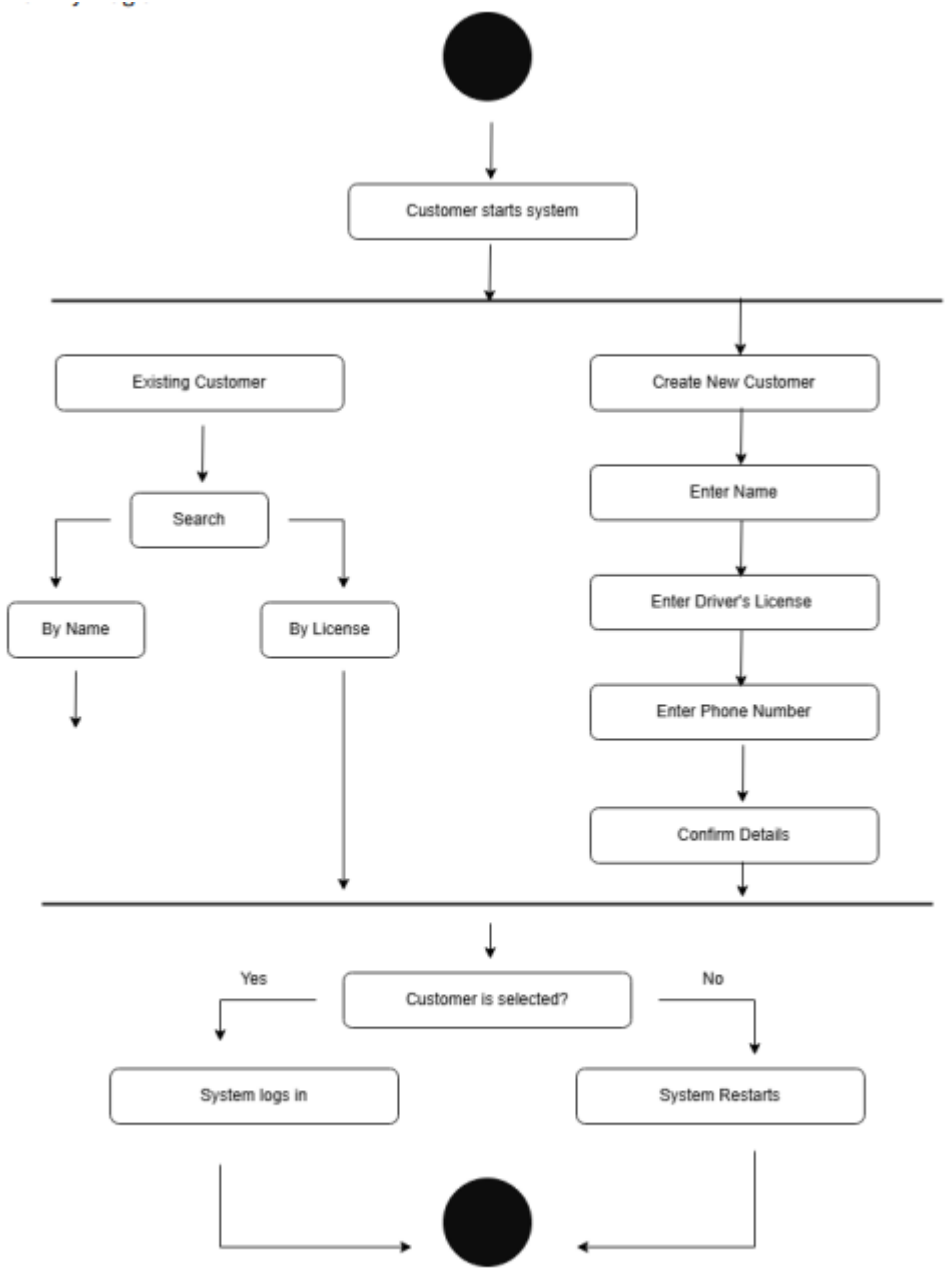
System Sequence Diagram 1



System Sequence Diagram 2

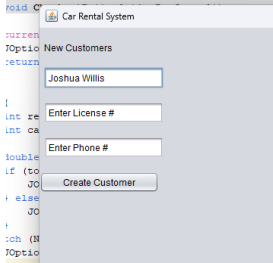


Activity Diagram

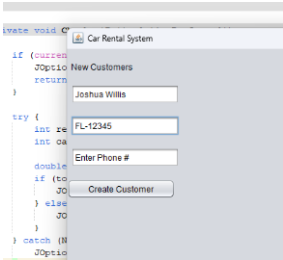


User Interface Specification

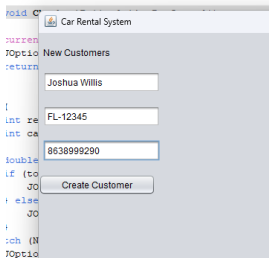
Use Case - Create New Customer



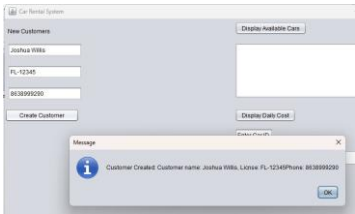
Enter Name



Enter License #

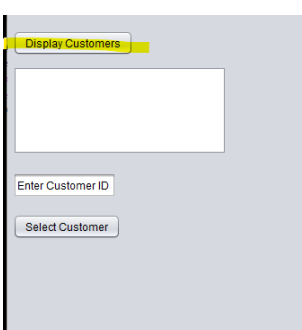


Enter Phone #

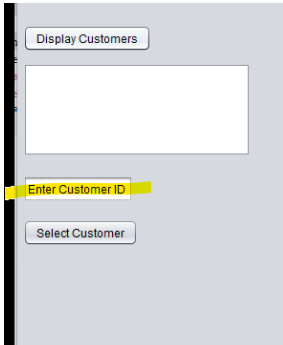


Click Create Customer

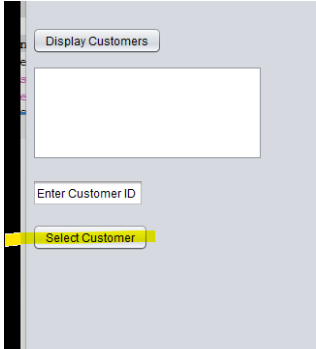
Use Case - Select Customer



Click Display Customers

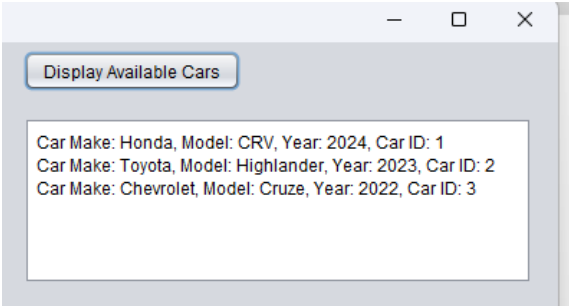
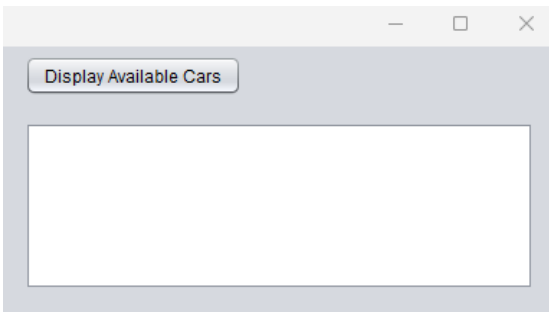


Enter Customer ID



Select Customer

Use Case - Display Available Cars



Click Display Available Cars

Use Case - Display Daily Cost

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Click Display Available Cars

Enter Car ID #

Click Display Cost

Use Case - Checkout

After Display Daily Cost

Set Rental Length

Enter Car ID#

Click Checkout

Usage Scenario	Navigation	Clicks	Keystrokes
Create New Customer	Overview, Enter name, license #, phone #, click Create Customer	4	<40
Select Customer	Overview, Click Display Customers, Enter Customer ID, Click Select Customer	3	<10
Display Available Cars	Overview, Click Display Available Cars	1	0
Display Daily Cost	Overview, Click Display Available Cars, Enter Car ID #, click Display Cost	3	<10
Checkout	Overview, Set Rental Length, Enter Car ID #, Click Checkout	6	<20

Project Plan

Development Plan

W1 – 2: determine the framework and establish the structure of the system *Complete*

W3 – 4: build the customer interface *In Progress*

W5 – 7: build the provider interface

W8: test features, record demo for mid-term

W9 – 11: improve features based on feedback

W12 – 14: writing test cases for implemented features and bug testing

W15: record demo for final presentation