



## System Requirements

**A valid username and password is required of all users in order to access the application.**

Customers will have the ability to access various pages, or views of the RentaCar application. For example, the Customer Home Page will contain various pages such as: *Car Search*, *Branch Search*, and *Rental History Log*.

Employees will also have the ability to access various pages on the RentaCar application.

Employees may be able to access pages such as: *Car Search*, *Customer Search*, and *Reservation Search*.



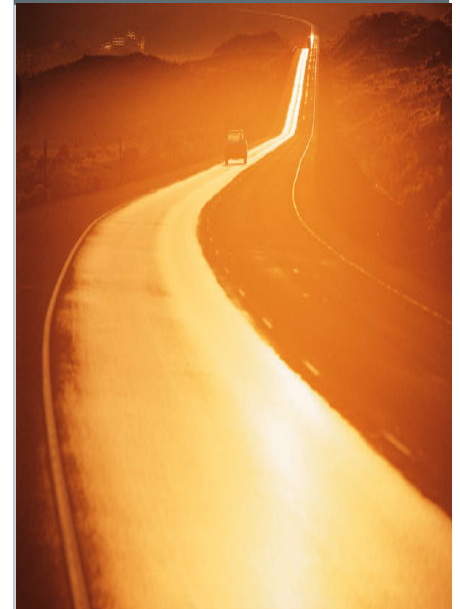
### GUI Photos

GUI Photo of Login Page for Users (above)

GUI Photo of Layout of Customer Home Page (above)

GUI Photo of Example of Vehicle Search (above)

# RentaCar Project



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Project URL:  
<https://github.com/mestauder/C451-Project.git>



Professor Dai  
 INFO C451  
 2 May 2022

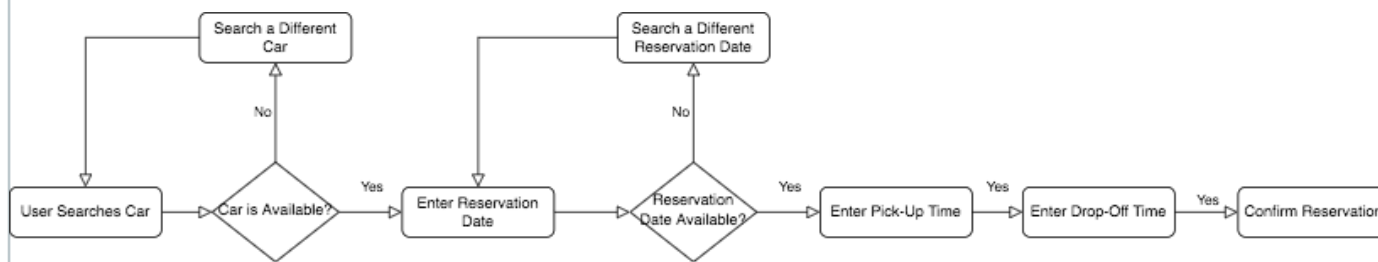


Figure 1: Scheduling a Reservation

## Product Description

The RentaCar system application is a Java application designed to improve the car rental booking process for both customers and employees. The RentaCar system will use a JavaFX GUI on the frontend and a Microsoft Access database on the backend.

The RentaCar system will include various features for customers to access. Customers will have the ability to enter personal information into the system. Customers will also be able to search for cars as well as branch locations through the RentaCar application. Customers may reserve a car through the application; reservations may be updated, or cancelled through the reservation page as well. The RentaCar application also contains a car rental history log to store information regarding all car rentals.

The RentaCar application also includes features for employees in administrative role. Similar to customers, employees will be able to search for available cars. Employees will have the ability, with the customer's consent, to manually book, update, and cancel reservations for customers. In addition, employees will be able to look up customer reservations as well as individual customers within the RentaCar database. Employees may add, or remove cars from branch locations; all employees may modify car and branch information.

The diagram above provides a general understanding of how a reservation is processed in the RentaCar system application.



## Features

- **Car Search** – this feature will allow customers to search for cars in the RentaCar system database. Information to be entered includes a vehicle's VIN number, make, model, year, and number of seats in the car.
- **Branch Search** – this feature will allow customers to search for RentaCar branch locations based on location. Customers will be required to enter a city, state, and country to search for nearby branch locations.
- **Customer Search** – this feature will allow employees to look up customers stored in the RentaCar system.
- **Reservation Search** – this feature will allow employees to look up customer car reservations in the RentaCar system. This feature could be useful when reservations need updated.
- **Rental History Log** – this feature will track and store all customer car rentals. Whenever a reservation is made, the reservation will automatically be added to a customer's history log.