



CAR RENTAL PROJECT



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Introduction

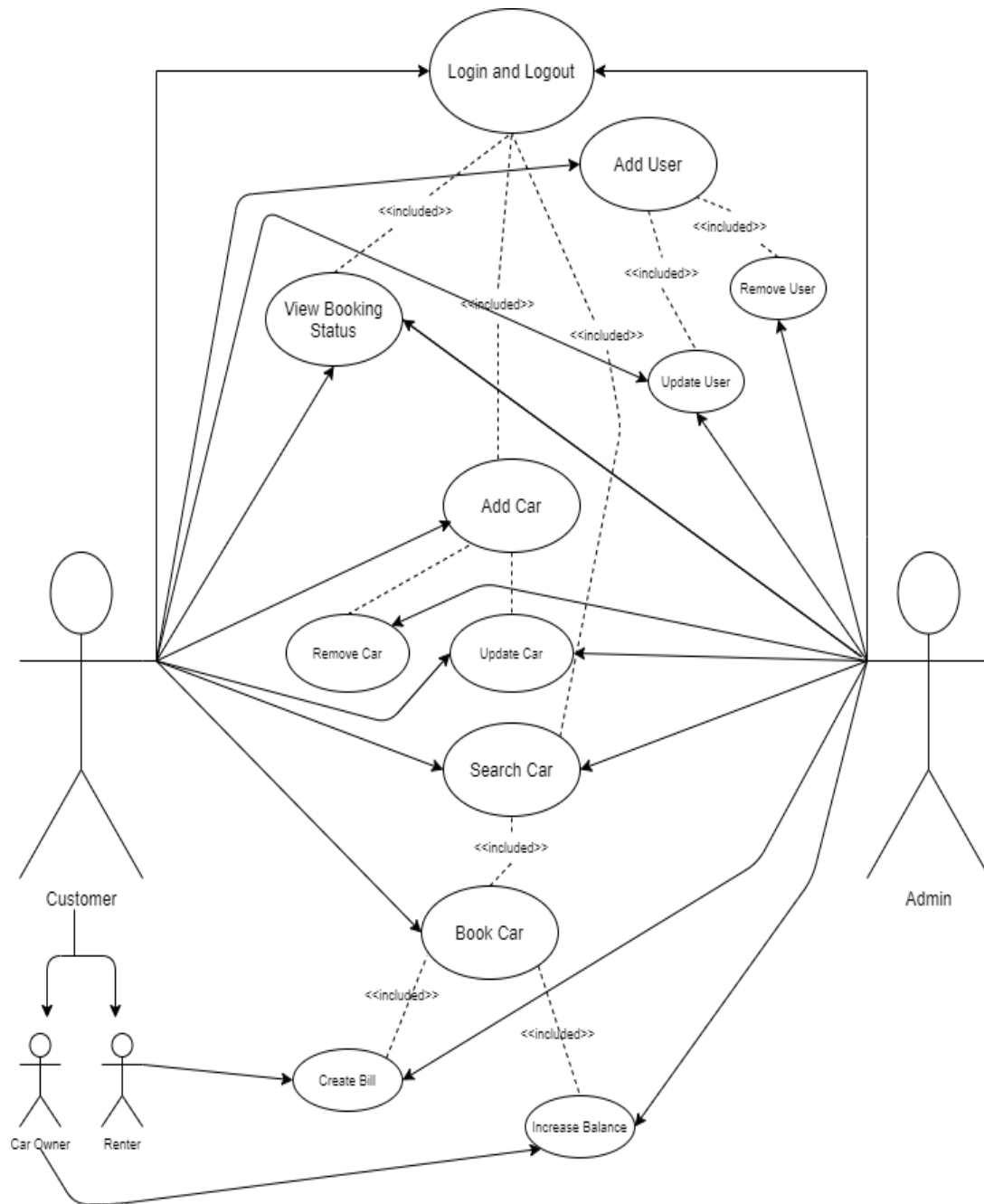
What the Problem is

A new up and coming car rental service is wishing to have a user interface that will allow their customers to view the models, descriptions and prices of different cars available. The user has the ability to log in to the Service and track their rental plan. The administrator will also be able to login through the same form but have the ability to update/remove car rentals, unwanted users, and so on. Potential customers should be able to view all the cars available to rent as well as to book their wanted cars then get billed for their activities and the bill will automatically be debited to car owners balance.

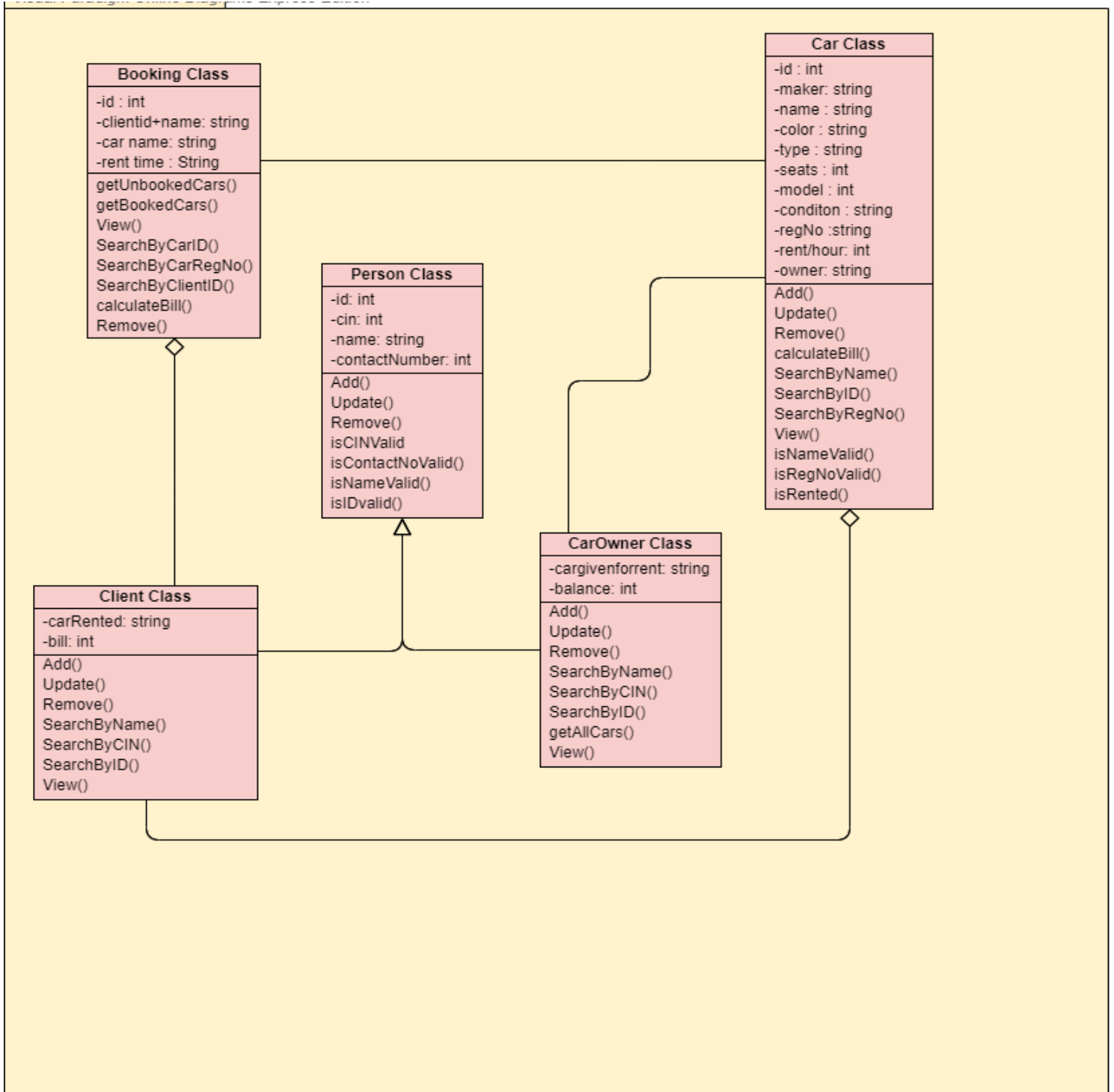
2.

Project Overview

Use Case Diagram



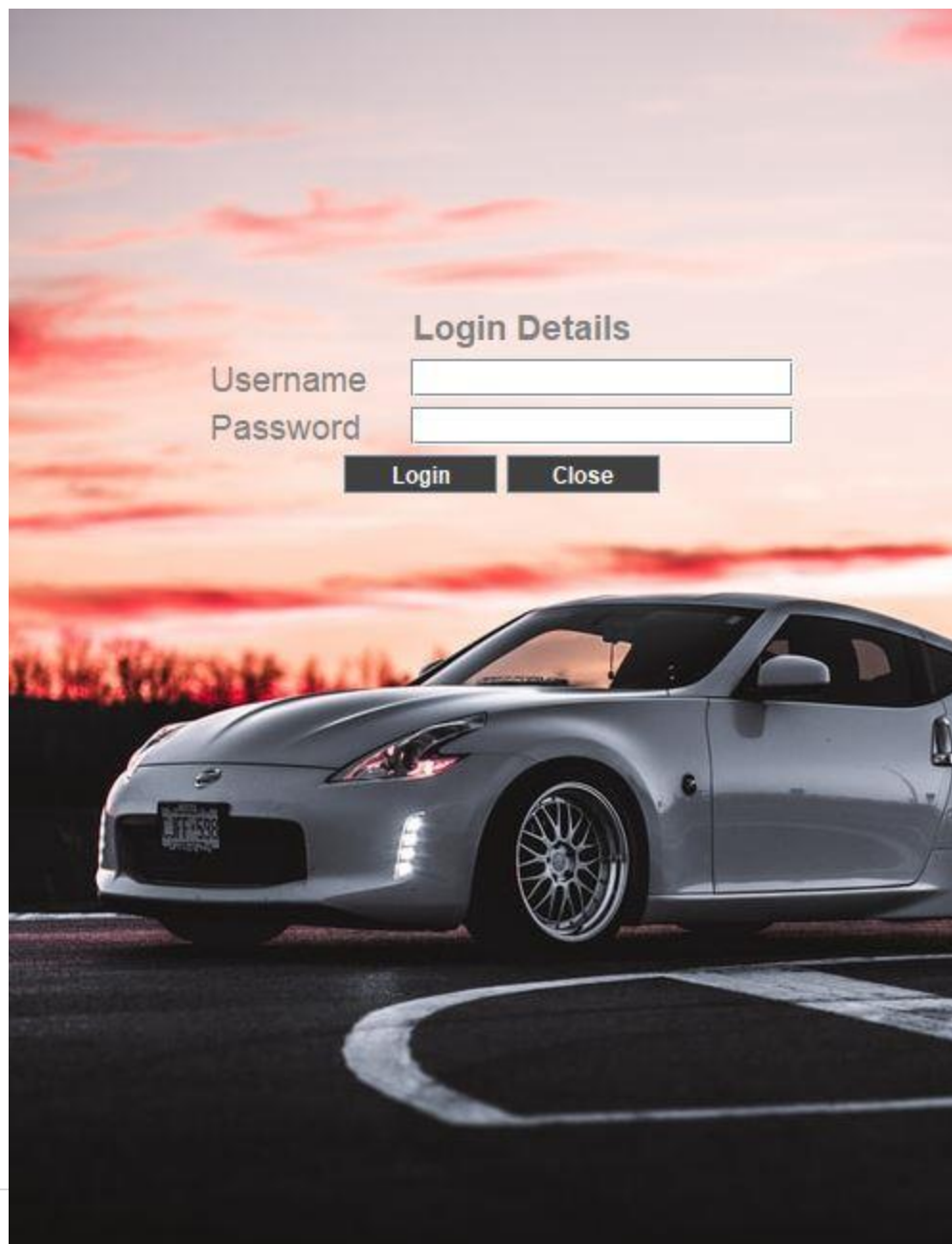
Class Diagram



3.

Interface Description

Login Form

A login form is overlaid on a background image of a silver sports car (Nissan Z) parked on a road at sunset. The form is titled "Login Details" and contains two input fields: "Username" and "Password". Below the fields are two buttons: "Login" and "Close".

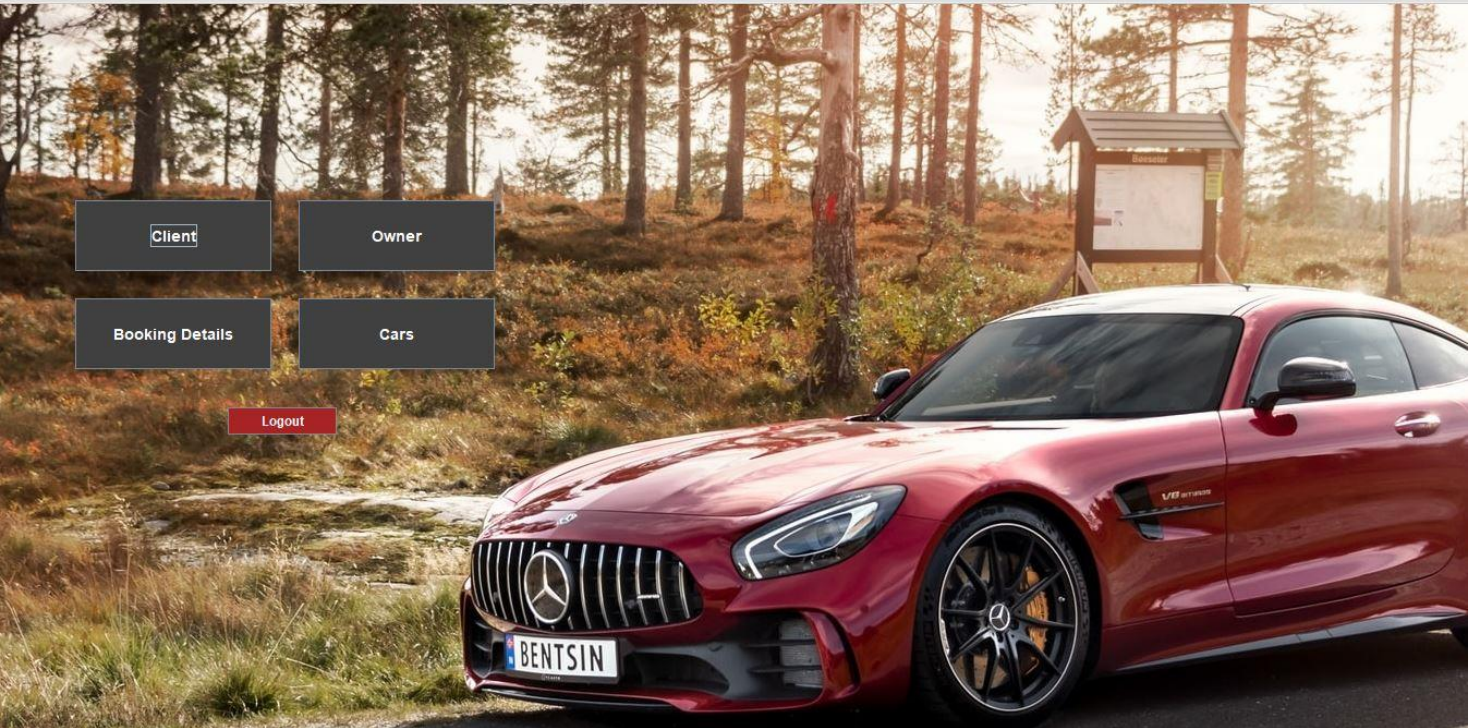
Login Details

Username

Password

Customers List Management

Cars Client Car Owner Help



Cars Client Car Owner Help

Search Name

Search ID

Sr#	ID	CIN	Name	Contact Number	Car Rented	Bill
1	1	12314231	hamdi	23453342	1: 1	0
2	2	12343211	zakaria	23424535	2: 2	0

Clear Bill

Add

Update

Remove

Back

Logout

Owners List Management

Cars Client Car Owner Help

Search Name

Search ID

Sr#	ID	CIN	Name	Contact Number	Car Given for rent	Balance
1	1	12748321	mohamed	97123123	2: Panamera	0
2	2	12534123	eya	25321453	1: A3	0

Clear Balance

Add

Update

Remove

Back

Logout

Cars List Management

Cars Client Car Owner Help

Search Reg_No

Search Name

Sr#	ID	Maker	Name	Colour	Type	Seats	Model	Condition	Reg No.	
1	1	Audi	A3	Red	Sports cars	2	2017	Excellent	FRA-1234	
2	2	Porsche	Panamera	Silver	Sports cars	4	2020	Excellent	GER-1423	

Add

Update

Remove

Back

Logout

Booking and Billing Management

Cars Client Car Owner Help

Search by Car RegNo

Search by Client ID

Sr#	ID	Client ID+Name	Car Name	Rent Time	Return Time
1	1	1: hamdi	1: A3	02:18 AM 07-06-2020	Not returned yet !
2	2	2: zakaria	2: Panamera	02:19 AM 07-06-2020	Not returned yet !

Book

Unbook

Back

Logout

Conclusion and Struggles

- We created Car Rental System application that is used to manage different Cars and keep track of the Clients Owners and Booking details.
- We have tried to keep the structure simple yet efficient, which makes it easier for other programmers to understand.
- We worked first with a database that reads from “.ser” files and writes on them and does all the functions and queries on them. But then for simplifying reasons we did the normal database with JAVADB that is included in Netbeans and we made it simple enough for all to understand while keeping major functions.
- We faced many challenges during this process made us familiar with common and uncommon errors in java and found their solutions. We also managed to implement Database efficiently in real life scenario.