Car Rental Project

# Requirements

## Stories:

* As a Manager I want to Add, Modify and Delete Car Rental Branches
* As a Manager I want to define the types of cars that will be used for rental.
* As a Manager I want to manage (Add and Delete) cars in the inventory.
* As a Manager I want to establish where the cars are.
* As a Manager I’d like to get a report of the current and past Reservations.
* As a Manager I’d like to Mange (add, modify, delete) Employees.
* As an Employee of a Branch I’d like to receive cars that are returned.
* As a User I’d like to be able to sign up to become a Member.
* As a User I’d like to Sign In as a Member.
* As a User I’d like to make searches on cars.
* As a User I’d like to I’d like to get a quote for a specific car.
* As a Member I’d like to make a reservation.
* As a Member I’d like to get a report of the history of my reservations.

## Technical Requirements:

* The system should run on the web.
* The following technologies will be used: MVC, JavaScript, JQuery, HTML, Entity Framework.
* The system should try to follow the guidelines of Separation of Concern.
* The system should follow the SOLID principles.

## Classes:

* Manager
* Employee
* Member
* User
* Car Rental Branch
* Car Type
* Car
* Reservation
* Reservation Report

## Class User

Properties: SSN\*, UserName\*, HashedPassword\*, Name\*, LastName\*, Gender\*, Email\*, DOB, Address, Phone, Picture.

## Class Employee: User

Properties: Shift, Salary

## Class Manager: Employee

## Class Member: User

Properties: FromDate, Discount

## Class Branch

Properties: BranchId, Name, Location, Coordinates?, Phone

## Class CarType

Properties: CarTypeID, Brand, Model, DailyPrice, DailyLatePrice, Gear

## Class Car:

Properties: CarId, CarType, Mileage, Picture, Available, Plates, Branch, Rented

## Class Reservation:

Properties: ReservationId, Branch, FromDate, ToDate, ActualReturnDate, User, Car, Status