**Write Springboot application for Car Partner Application:**

The web application should support adding Car and Driver with the following Parameters

· Car

o License Plate

o Seat Count

o Rating

· Driver

o Username

o Password

o Rating

Write a new Controller for maintaining Cars and Driver (CRUD).

1. Implement CarController such that it can support following

· Enable admins to add, remove, update and Search a Car

· Car search should be supported with the License Plate

2. Implement DriverController such that it can support following

· Enable admin to add, **remote**, update and search Drivers

· Enable drivers to select a car they are driving with REST API

· Support Authentication for Drivers

· **Deselct** the Car

You should be able to start the example application by executing “CarPartnerApplication”, which starts a webserver on port 8080 ([http://localhost:8080](http://localhost:8080/))

Following are the conventions while you are working on this exercise:

· All new entities should have an ID with type of Long and a date\_created with type of ZonedDateTime.

· The architecture of the web service is built with the following components:

o *DataTransferObjects*: Objects which are used for outside communication via the API

o *Controller*: Implements the processing logic of the web service, parsing of parameters and validation of in- and outputs.

o *Service*: Implements the business logic and handles the access to the DataAccessObjects.

o *DataAccessObjects*: Interface for the database. Inserts, updates, deletes and reads objects from the database.

o *DomainObjects*: Functional Objects which might be persisted in the database.

To complete the assignment following skills are needed:

· Java 1.8 and abve

· Spring MVC with Spring Boot

· Database H2 (In-Memory) or any

. Spring boot DataJPA

· Maven

· Spring Core, Rest, Security(optional)

· JPA and Hibernate