

Cohort One

JAVA DEVELOPER – SUMMATIVE CAPSTONE PROJECT

Project Title

Car Rental Management

Start Date: 9th February, 2021

End Date: 17th May, 2021

Car Rental Management system

Purpose:

This project is being taken up for demonstrating skills acquired during the training. The scope of the project is described below:

Technical specifications:

The project will be developed using the following tools. Outlined here are the basic requirements and individuals can choose any other tools of their convenience.

1. Tools
 - a. Windows or Mac operating system as available
 - b. STS 4.0 or equivalent
2. Software & technologies to be used
 - a. Oracle database version 12c (or any similar)
 - b. SQL Developer
 - c. Java 8 or higher (version can be changed as needed)
 - d. JavaScript
 - e. CSS
 - f. HTML 4.0 or higher
 - g. jQuery
 - h. Thymeleaf
 - i. Balsamiq or equivalent for wireframing
 - j. <https://erdplus.com/> or any other ER modeling tool, to determine the dB
3. Others
 - a. Upload the final code to a git folder that will be given later.

Business Requirements

1. Design an intuitive UI for the ease of use.
2. The facility for the user to login with his credentials as given during the registration.

3. The complete user data should only be visible to the administrator (individual user information can be amended by the user)
4. All the rights to remove data from the system will only be available with the “admin”. Users can only add records for hire data and see the list of hires.
5. However, the Managers can be given a provision of editing /deleting the data across all the modules barring the user information.
6. Addition of vehicles into the system can be done only by the admin and not by any other users /managers.
7. The list of customers and their past bookings is to be displayed in the reports section.
8. An invoice should be generated internally by the system at the end of the trip.
9. Maintain the list of vehicles and allow the customer to book a vehicle.
10. The vehicles that are currently in the status of the “free” or any such status should be allowed to be booked.
11. Following will be details required in the system
 - a. Vehicle
 - i. Model
 - ii. Brand
 - iii. Status
 - iv. Hire details
 1. Rate plans
 2. All the data pertaining to the current and past hires
 3. The current hire will not have the end date.
 4. Employee who handled the hire (fulfillment agent)
 - b. Customer
 - i. Details
 1. Name
 2. Address
 3. City
 4. Phone #
 5. Email
 6. Website
 7. Alternate contact details

- 8. Proof of identity (id captured or an image)
 - ii. Invoice details per customer
 - iii. Invoice status (paid or not)
- c. Users management
 - i. ID
 - ii. Username
 - iii. Firstname
 - iv. Lastname
 - v. Password
 - vi. Role
- d. Invoices (Printing the PDF can be optional, record will suffice)
 - i. Invoice date
 - ii. Payment date
 - iii. Amount
 - iv. Customer detail
 - v. Hire details (ID)