PROJECT REQUIREMENTS DOCUMENT

Team: Group 6

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Project Description:

A Car request application support a variety of services involving request car services like renting, ride share, deliver services, car messenger services and buying/selling cars including unique cars.

We are implementing features such as Rent a Car and Mechanic Services

Features Provided are as Follows:

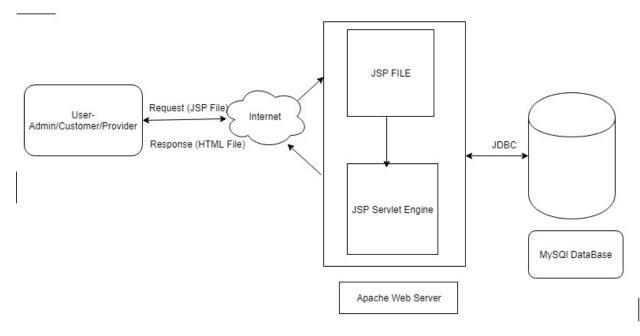
- 1. User Management Module (Security): This module deals with access control to the application
 - ✓ Type of users Consumers, Providers and Admin
 - ✓ Login using User name and Password. Additionally, an email validation is added to provide security to the user by sending a OTP to the registered mail id.
- 2. Customer Management Module:
 - ✓ As a Customer: Providing service to Rent a Car through a module such as rent a car, book and pay
 - ✓ As a Provider: Providing service to add a car details, add a mechanic services
- 3. Billing Module:
 - ✓ Payment module for both customer and service provider

Technical Requirements

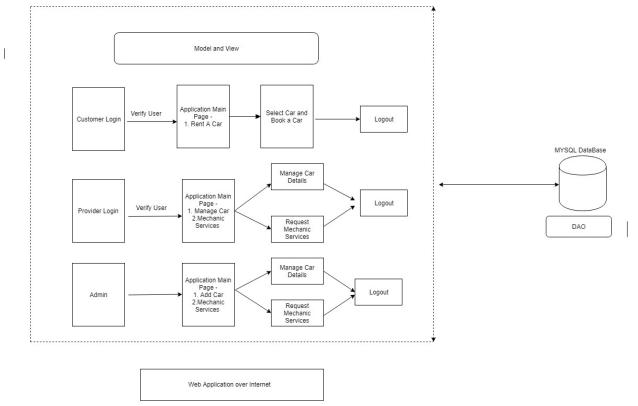
Req Id	Tools / Technologies	Priority
1	Eclipse	High
2	Tomcat Server	High
3	MySql Database	High
4	Java, JSP, Servlets	High
5	SQL Workbench	Medium

Architecture:

1.1 High level architecture



1.2 Low level architecture



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UML Diagram:

<<Java Class>> AddaCar webapp

addCarName():void addCarModel():void getUserDetails():void

<<Java Class>> **⊕**GenerateOTP sources

generateOTP():String generateRand():String <<Java Class>>

⊕ EmailVerification webapp

Sfrom: String ⁴to: String ^spassword: String smsg: String Ssub: String

^smax int ^smin: int

send(String):boolean

€ <<Java Class>> **⊕**BookaCar

webapp

6BookaCar() • bookCarName():void bookCarModel():void getUserDetails():void ▲ generateBookingld():void <<Java Class>>

⊕LoginServlet webapp

«LoginServlet()

doGet(HttpServletRequest,HttpServletResponse);void doPost(HttpServletRequest,HttpServletResponse):void <<Java Class>>

Payment webapp

√Payment() getUserDetails():void

getCarDetails():void oconfirmBooking():void <<Java Class>>

 MechanicServices webapp

typeofServices():void getuserDetails():void

<<Java Class>>

GcarDetailsDao model

addCarDetails():void updateCarDetails():void deleteCarDetails():void <<Java Class>>

⊕mechanicServicesdao model

√mechanicServicesdao() addmechanicServices():void updatemechanicServices():void deletemechanicServices():void

<<Java Class>>

GdaoModel model

osconnection: Connection

o⁵statement: Statement daoModel()

connectDB():void getConnection():Connection updateOTP(String,String):void close():void

-connector 0..1

osconnection: Connection

<<Java Class>>

⊕Connector model

◆Connector() getConnection():Connection

<<Java Class>> <<Java Class>> **⊕**bookingDetailsDao GetConnection

model

bookingDetailsDao()

addbookingDetails():void

updatebookingDetails():void

deletebookingDetails():void

model

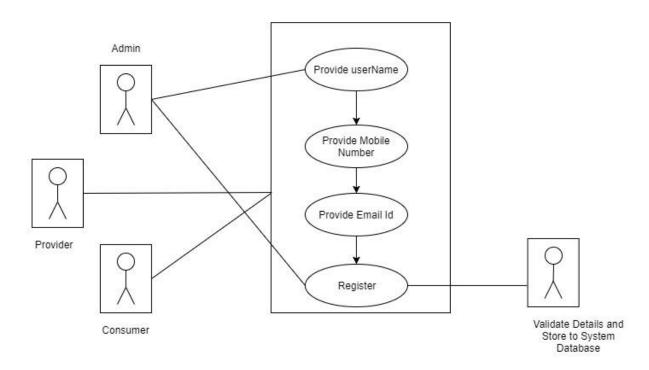
Sconnection: Connection

GetConnection() getConnection():Connection

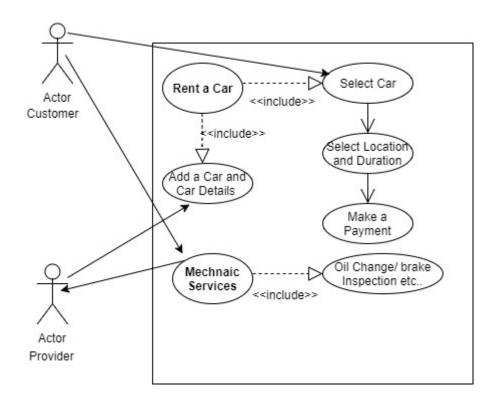
Use case Diagrams:

1.1 Login

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1.2 Other functionalities:



ER Diagram:

