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**Project Name** :- Quick Servicing

**Project Members**:-

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1. **Introduction** 
   1. **Problem Definition**:-

Due to the Pandemic people prefer to stay home and get their works done with a easy and effective way. Because of which the use of personal vehicle’s is more and need to service the vehicle is increasing rapidly. But people don’t want to come in contact with other persons in order to maintain social distance .So we came up with an idea to make a system through which people can simply log into the system and list their vehicle and just select a service centre according to their need and the service centre can come and collect their vehicle and can service them easily without coming in direct contact with each other.With this system we made arrive each and every service station at each and everybody’s home. Our system will be also beneficial for all garage owners, tyre shop owners as well as the vehicle shipment owners because they are going to get more number of customers easily.

We are also going to provide an additional functionality of transportation of vehicles from one place to another place. Suppose the user want to ship his vehicle from one city to another city it becomes very difficult for the user since mostly user can transport his vehicles through which makes it difficult because it is a very time consuming and hectic process for the user .But through our system he can easily contact all the shipments dealers all from one place through an ease of a click, which will make it easy for user to transport his vehicle easily.

**1.2. Objective of Project**

Our main objective behind developing this project is that people should be able to service their vehicles easily without their main involvement of dropping and picking up the vehicle for the servicing work .User can Simply enter is vehicle details and just chose a garage that he wants to get its work done from after choosing all of these he simply has to share his location or address from where his vehicle has to be picked ,then a worker from the garage will come collect the vehicle and carry out the servicing and after that will just simply deliver the vehicle to the customer. After taking the delivery of the vehicle by the customer and ensuring all the things customer can simply pay them. With our system it will create a win-win situation for all the users as well as the service providers

We are also going to add extra functionality for the shipment of vehicle in which if the customer wants to transport his vehicle from one place to another he can simply login to the application and enter the pickup and destination cities and can contact the people providing this services and ship their vehicle

1. **Analysis**

**3.1. Existing System**

* The current system that are available in the market mostly have only one garage for which they have developed the website.
* Only few websites have both car as well as bike service all together as well as the tires work specialists.
* There none of the website that has a all services as well as the vehicle shipment service all together.

**3.2 Proposed System**

* In our system all type of vehicles will be serviced whether it might be a car or bike.
* We are going to integrate all the local garage owners as well as the tyre shop so they can get more number of customers and increase their income.
* We are going to introduce a vehicles shipment system through which we can simply ship vehicle from one destination to other.

**3.3 Software Requirement Specification**

**3.3.1 Hardware**

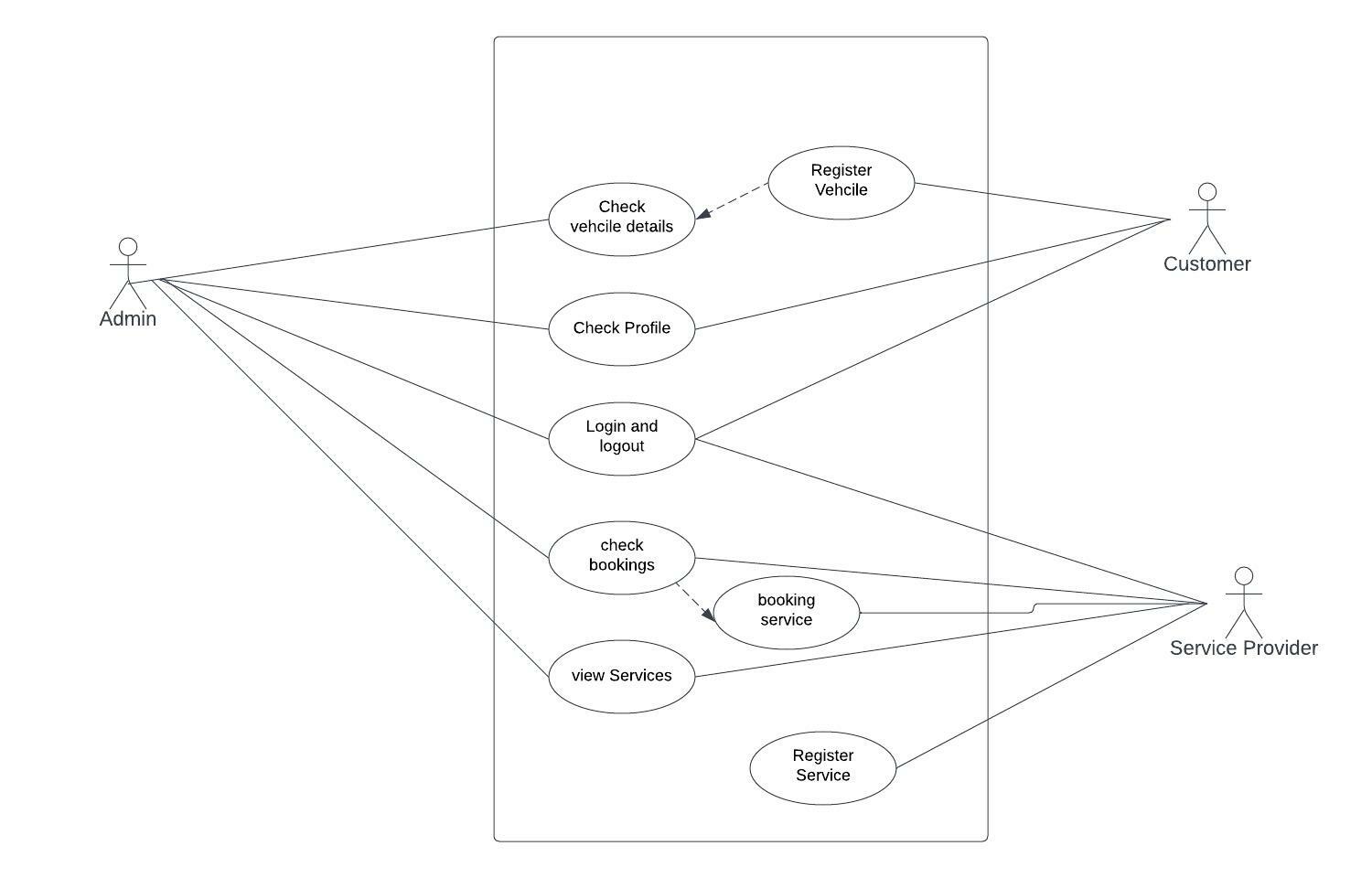
* Intel i3 processor 3 rd generation or later / AMD Ryzen 200 2 nd generation or later
* 2 GB ddr3 ram.
* Windows 7 Home edition or later.
* 200 GB Sata HDD Space
* Data Connection 200 kbps

**3.3.2 Software**

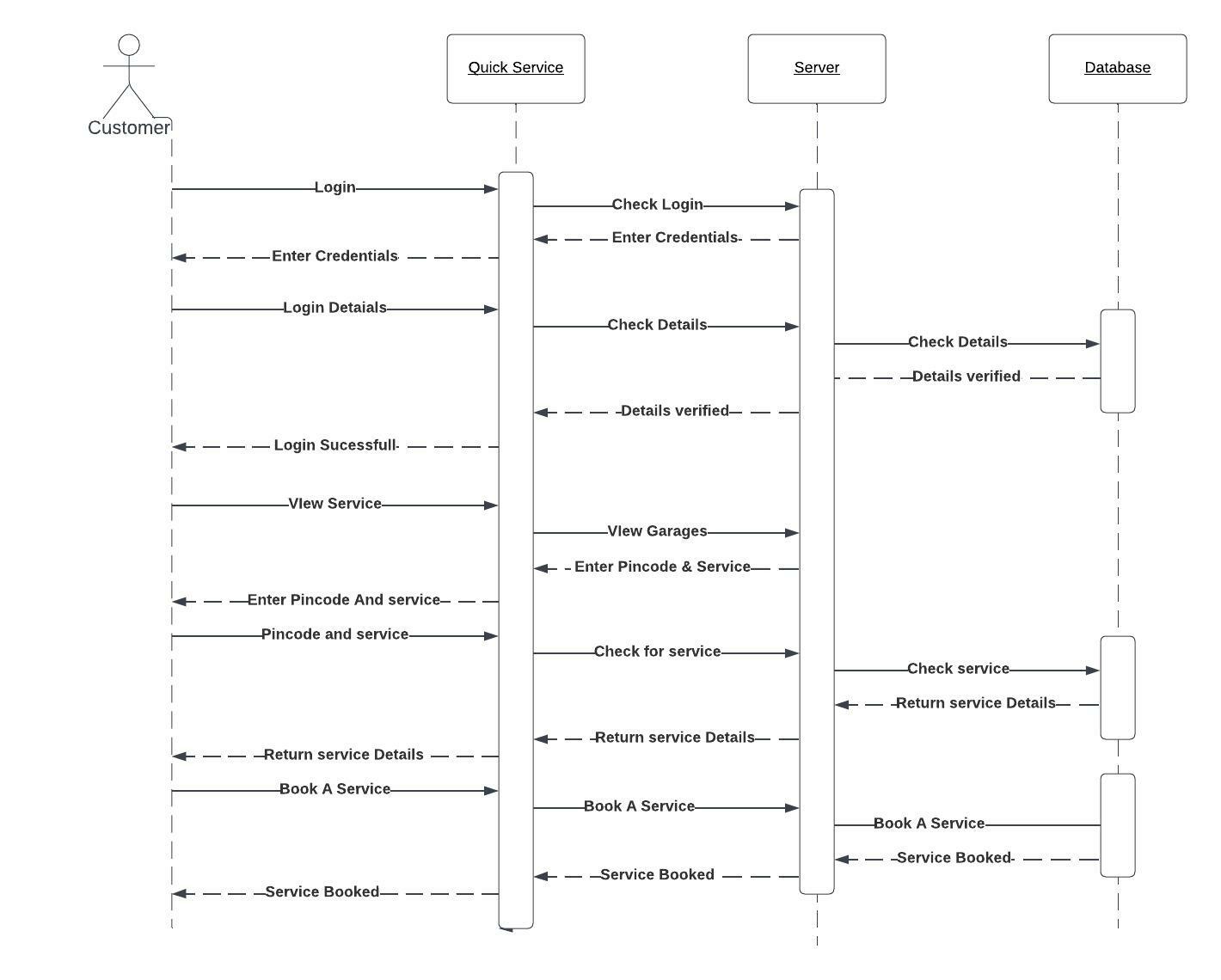
* Eclipse
* MySQL 5.7 with Workbench 8.0
* Google Chrome version 79.0
* Visual Studio

1. **Design**
   1. **UML Diagram**

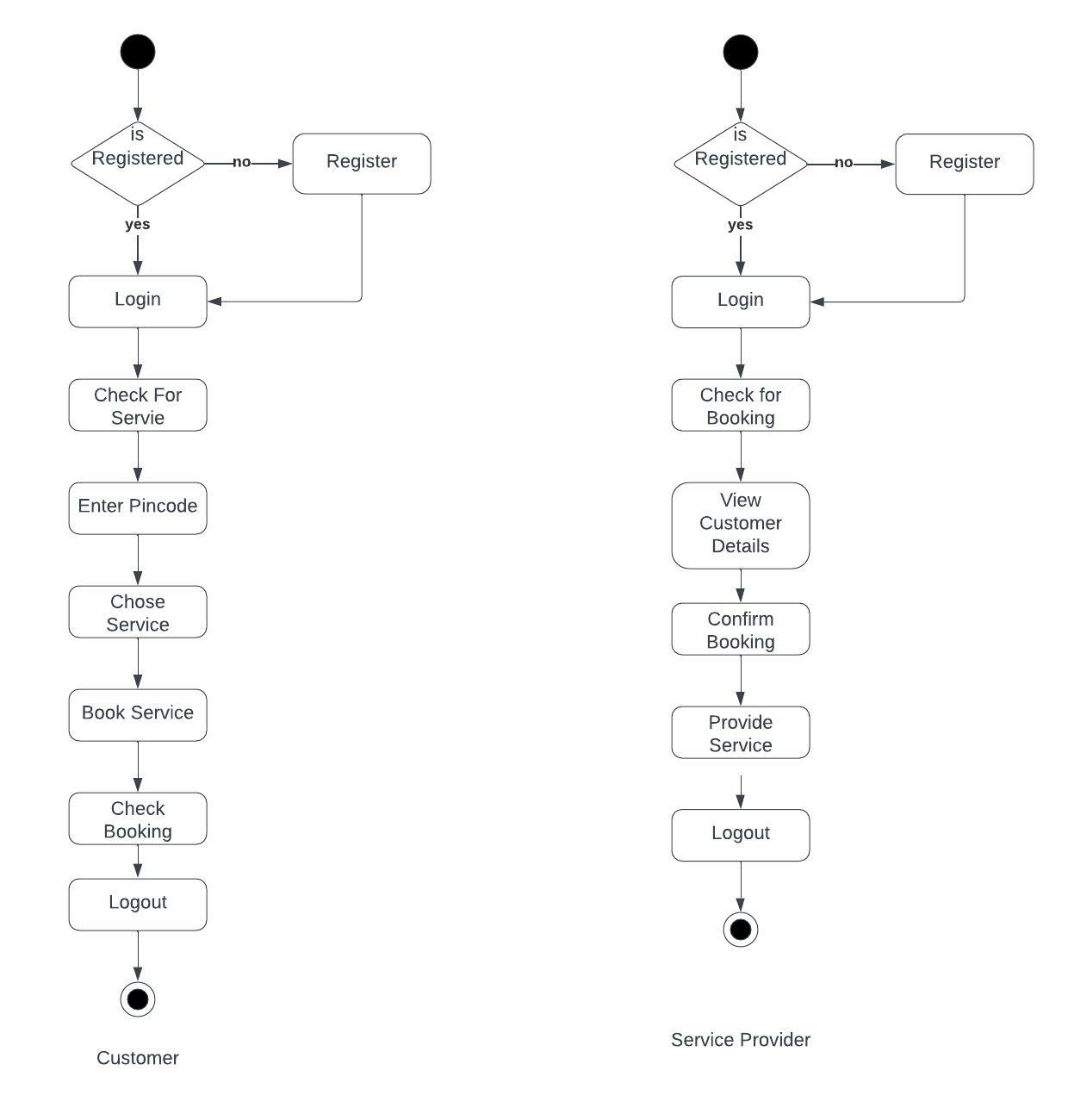
**Use case**

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**Sequence Diagram**

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**State Diagram**

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**5 Implementation**

**5.1 Modules**

1. Customer Module

2. Service Provider Module

3. Admin Module

**5.2 Module Discription**

**1. Customer Module**

* Customer Can register in this module and enter his details
* Customer can enter is vehicles details and can look for the shop that he wants to get his bike services from.
* Enter his location or we can say the pickup point from where his vehicle would be picked.
* Give feedback about the garage &Raise any complaint.

**2. Service Provider Module**

* Enlist their shop and show the costing and charges.
* Can enter their details and specialization
* Can check for service request of the customers and act upon it.

**3. Admin Module**

* Admin will have all-over control on the functionality i.e.
* He can add a garage or shop, he can check for payments and complainants and can act upon it.
* He can view all the details of all the peoples and modules.

**5.3 Technologies’ Used**

**1. Spring Framework:**

Spring Framework is a Java platform that provides comprehensive infrastructure support for developing Java applications. Spring handles the infrastructure so you can focus on your application.

Spring enables you to build applications from “plain old Java objects” (POJOs) and to apply enterprise services non-invasively to POJOs. This capability applies to the Java SE programming model and to full and partial Java EE.

**2.MySQL**

MySQL is a widely used relational database management system (RDBMS).

MySQL is free and open-source.

MySQL is ideal for both small and large applications

**3. React**

React is a JavaScript library for building user interfaces.

React is used to build single-page applications.

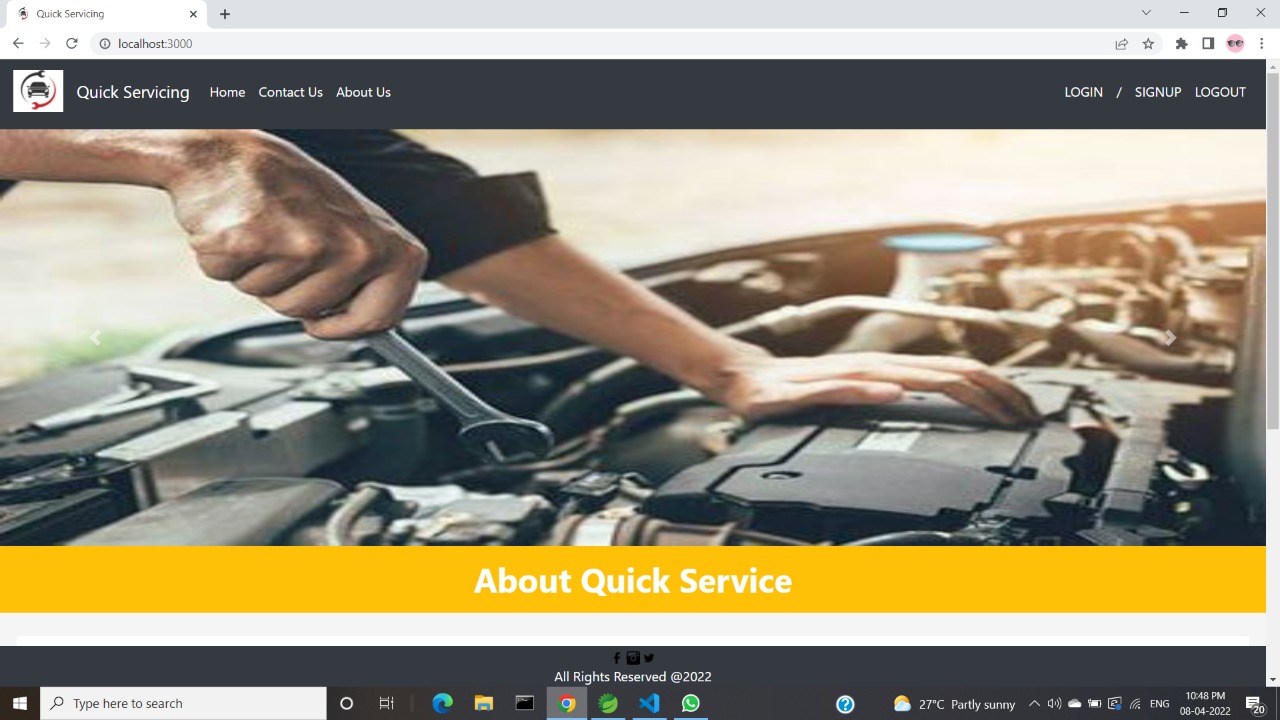
React allows us to create reusable UI components.

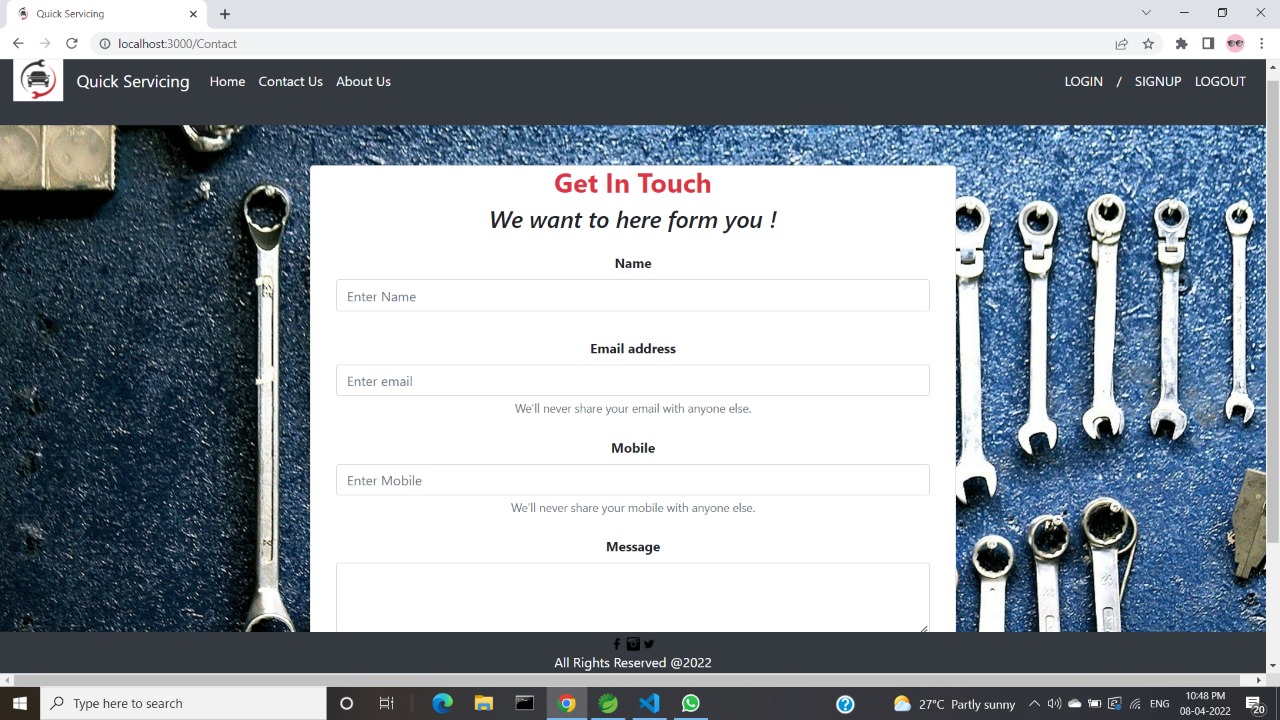
**7.Test Cases :**

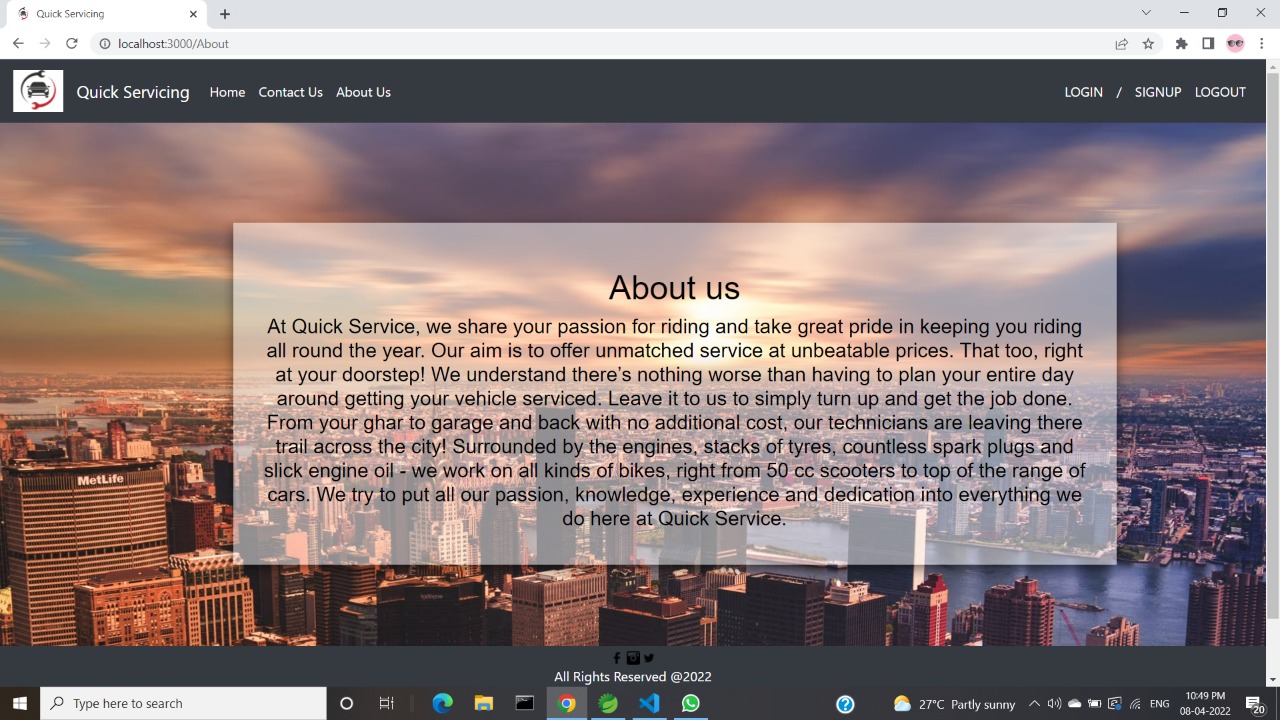
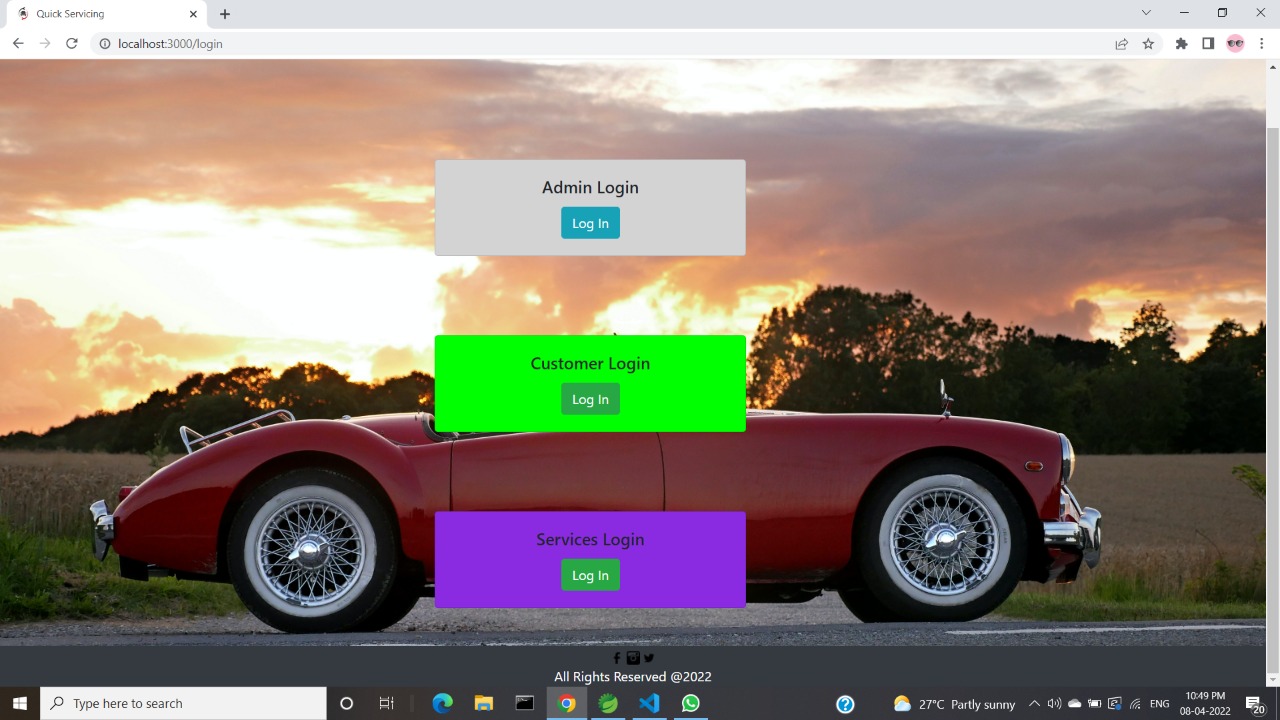
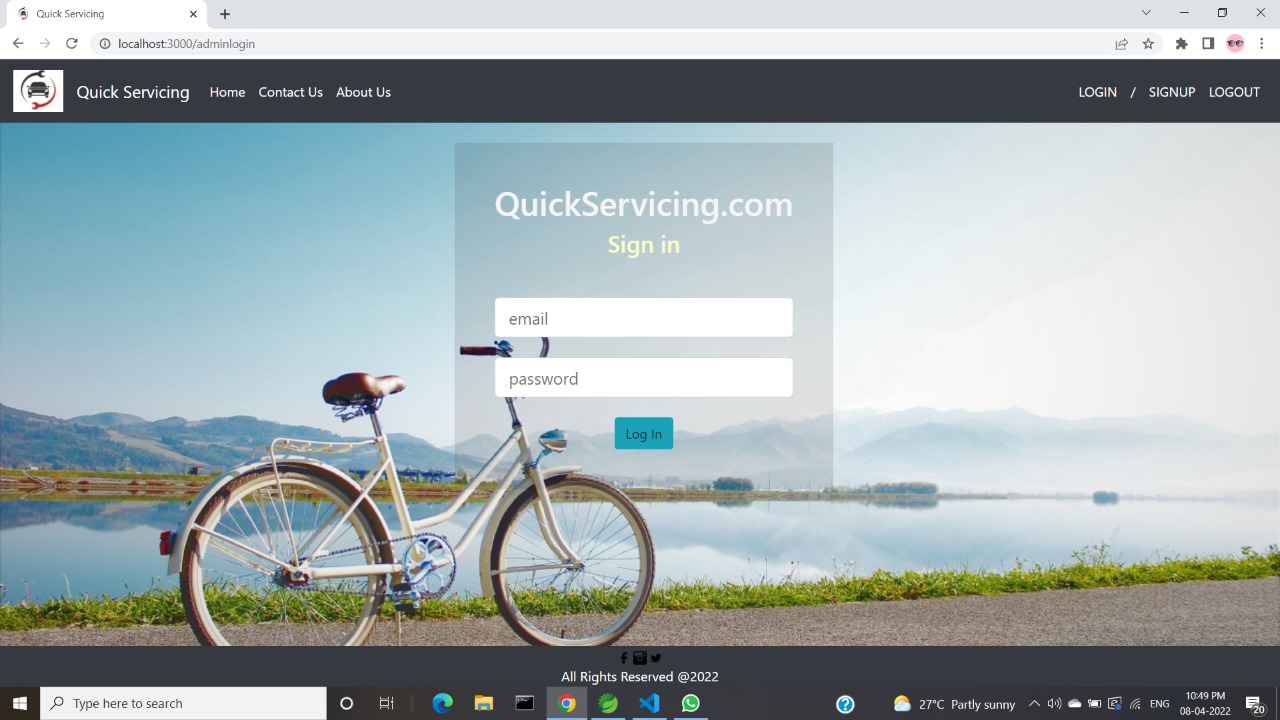
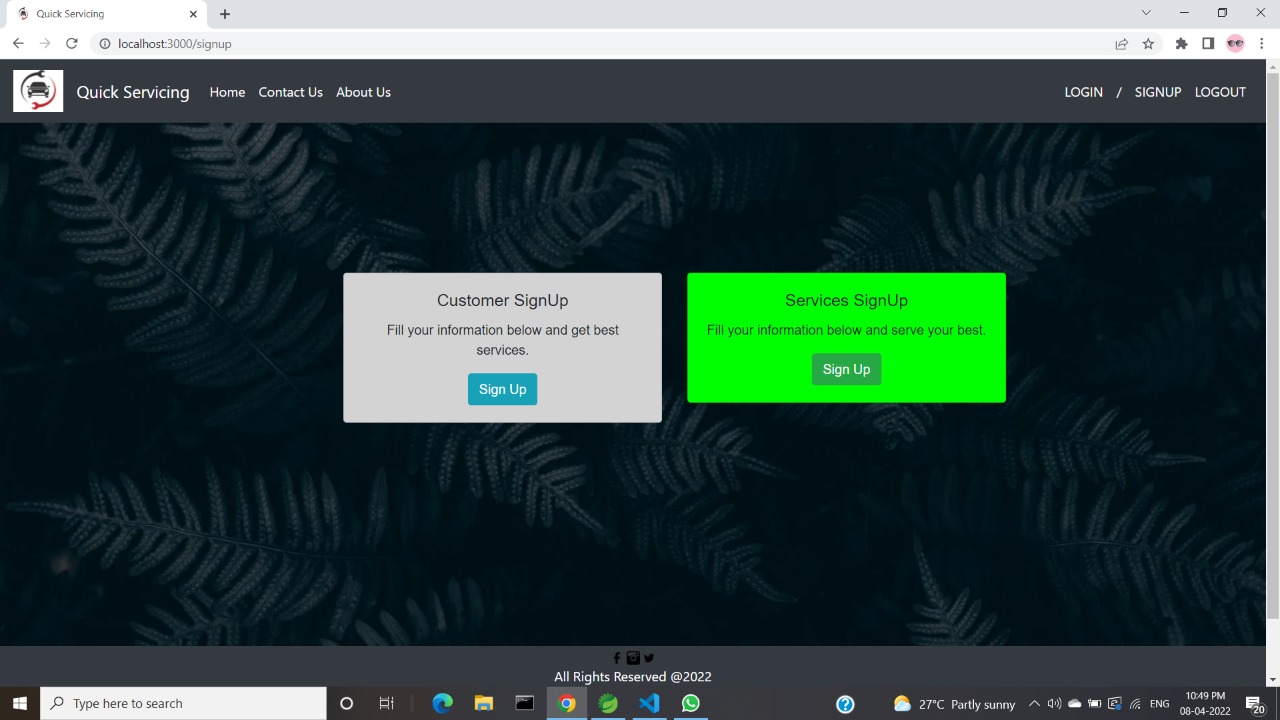
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| **Test Case ID** | **Test Scenario** | **Test Case** | **Pre-Condition** | **Test Steps** | **Test data** | **Expected Result** |
| TC\_Login\_001 | Verify login of Admin. | Enter valid Email and valid password |  | 1.Enter Email. 2.Enter password. 3.Click on Log in button | Email : Admin@gmail.com Password : Admin | Successful login-Redirect to Admin page |
| TC\_Login\_002 | Verify login of Customer. | Enter valid Email and Invalid password | Need to sign up before login | 1.Enter Email. 2.Enter password. 3.Click on Log in button | Email : josh@gmail.com Password : josh$555 | Invalid Credentials.  Should be remain on same page. |
| TC\_Login\_003 | Verify login of Service Provider. | Enter Invalid Email and valid password | Need to sign up before login | 1.Enter Email. 2.Enter password. 3.Click on Log in button | Email : [GaneshGarage1@gmail.com](mailto:GaneshGarage1@gmail.com)  Password : ganesh#122 | Invalid Credentials.  Should be remain on same page. |

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|  |  |  |  |  |  |  |
| **Test Case ID** | **Test Scenario** | **Test Case** | **Pre-Condition** | **Test Steps** | **Test data** | **Expected Result** |
| TC\_SignUp\_001 | Check whether able to sign up for Customer, Service Provider. | 1.Fill the all the details on the form | account should not be exist already. | 1.Fill out all the details in form |  | Should be redirect to login page. |

**7. Screenshots of Web Pages**







**8. Conclusion**

So thus we have developed a smart website through which we can book servicing for all type of vehicle and can carry out various functionality .

**9. Future Enhancement**

1 We can add a Google Maps by which the location tracking can be made much easier

2 We can also add a UPI service in the future with which the payment system can be much easier