

Project Report on
ON ROAD VEHICLE SERVICE
U. V. Patel College of Engineering



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B.Tech Semester V (Computer Science & Business System)

December 2023

Submitted to,

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U.V. PATEL COLLEGE OF ENGINEERING



09/12/2023

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TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. **Utsav Rojivadiya** student of **B.Tech. Semester V (Computer Science & Business System)** has completed his/her full semester Mini Project work titled “**On Road Vehicle Service**” satisfactorily in partial fulfillment of the requirement of Bachelor of Technology degree of computer science & business system of Ganpat University, Ganpat Vidhyanagar, Mehsana in the year 2023-2024.

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Prof. Om Prakash Pal

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This is to certify that Mr. **Khush Makadia** student of **B.Tech. Semester V (Computer Science & Business System)** has completed his full semester Mini Project work titled “**On Road Vehicle Service**” satisfactorily in partial fulfilment of the requirement of Bachelor of Technology degree of computer science & business system of Ganpat University, Ganpat Vidhyanagar, Mehsana in the year 2023-2024.

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ACKNOWLEDGEMENT

First and foremost, we would like to thank our guide - **Prof. Om Prakash Pal** Sir for their invaluable guidance, encouragement, and unwavering support throughout the entire duration of this project. Their expertise and insights were instrumental in shaping the direction of this report, and we are truly grateful for their mentorship.

Thank you, Sir

ABSTRACT

The rapid expansion of urban populations and the increasing dependency on vehicle transportation have accentuated the significance of on-road vehicle service systems. This paper presents a comprehensive overview of the concept of on-road vehicle service, focusing on its role in enhancing operational efficiency, accessibility, and sustainability within modern transportation networks.

The On-Road Vehicle Service Project aims to revolutionize the way vehicle maintenance and repair services are delivered to vehicle owners. Traditional vehicle servicing often involves inconvenient trips to service centres, long waiting times, and limited transparency in the repair process. This project proposes a comprehensive solution that leverages modern technology to enhance the efficiency, convenience, and transparency of on-road vehicle service.

Efficiency is a central theme in the discussion of on road vehicle services. By offering maintenance and repairs at the point of need, these services minimize vehicle downtime, resulting in improved utilization and reduce economic losses for vehicle owners. The integration of real-time data analytics, predictive maintenance algorithms, and mobile service units enables swift identification of issues and facilitates proactive interventions.

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Chapter 1 – INTRODUCTION

1.1 Project Overview

The “On Road Vehicle Service” management system is an android application designed to streamline and automate the management of on-road vehicle services. The system will provide a platform for vehicle owners and service providers to efficiently manage vehicle maintenance, repairs, and related services.

1.2 Background

The background of on-road vehicle service provides context for the development and implementation of such a system. It typically includes the reasons for undertaking the project, the challenges it aims to address, and the opportunities it seeks to seize.

1.3 Purpose

On-road vehicle service refers to the range of maintenance, repair, and assistance services provided to vehicles while they are in operation on public roads. The primary purpose of on-road vehicle service is to ensure the safety, reliability, and optimal performance of vehicles while minimizing breakdowns and disruptions for drivers. This service caters to various types of vehicles, including cars, trucks, motorcycles, and commercial vehicles.

1.3.1 Problem Statement

The objective of this project is to develop a robust and user-friendly software solution. The traditional process of managing vehicle services, including maintenance, repairs, and emergency assistance, is often cumbersome and lacks transparency. Vehicle owners face challenges in finding reliable service providers, while service providers struggle to efficiently manage service requests and deliver timely solutions. This disjointed system leads to customer dissatisfaction, delays in service delivery, and inefficient resource allocation.

1.3.2 Problem Aim

We propose to build a web application that is user friendly, easy to manage by the garage owners and that makes the users coming on the website easy to choose what they want. We tend to make the website attractive too, so that the user can surf/explore more of our website and feel to buy or select more things for their car other than for what they have come here which directly helps the garage owners to make more money and grow up their business faster than earlier they used to do without using the technology and our software.

1.3.3 Project Objectives

- Efficient service booking:
To streamline the process of service booking for vehicle owners, making it quick and user-friendly.
- Real-time tracking and transparency:
To provide real-time visibility into the status and location of service providers and service vehicle.
- Workflow optimization for service providers:

To equip service providers with tools to efficiently manage service requests, assign technicians, and optimize their operations.

- Secure and convenient payment processing:

To offer secure and convenient online payment options for vehicle services.

- Feedback and rating system:

To establish an effective feedback and rating mechanism, enabling vehicle owners to provide reviews and rating for the services they receive.

- Improved customer experience:

To create an application that prioritizes user experience through an intuitive interface and real-time notifications.

- Business insights and data-driven decision:

To generate data and reports that provide service providers with valuable insights for informed decision-making and service quality improvements.

- Market expansion and growth:

To seize the growing market opportunity for efficient and reliable vehicle services.

- Project sustainability:

To ensure the long-term sustainability and scalability of the application.

- Data security and privacy:

To maintain the highest standards of data security and user privacy.

1.4 Project Scope

The scope of on-road vehicle service encompasses a wide range of activities and services aimed at addressing the needs of vehicle owners and operators while their vehicles are on the road.

The scope of vehicle service typically includes the following aspects:

Routine maintenance, inspections, tire service, brake service, fluid service, electrical and electronics system, air conditioning and heating, fuel system, transmission service, warranty work, customer education, emergency service, customization and upgrade, etc.

1.5 Organization of Project Report

Organizing a project report for On Road Vehicle Service project is essential to present the information in a clear, structured, and coherent manner. A well-organized report helps your readers (stakeholders, clients, team members, etc.) understand the project's objectives, progress, outcomes, and significance. Here's a suggested structure for organizing your project report:

Introduction:

We will introduce the project and its objectives, provide context for the project, including its significance and the motivation behind it. We will also briefly describe about our application service.

Literature Review:

We will take the review of other projects and websites and note them down. We will also make a comparison table between all the websites and also about what will be different in our website then all the websites we have used to compare. Also, pros and cons will also be written of our website along with other.

Functional requirement:

Functional requirements for On Road Vehicle Service to Ensure a smooth and user-friendly experience for both customers and administrators. These requirements can vary depending on the context and purpose of the car customization.

Non- Functional requirements:

Non-functional requirements for an On Road Vehicle Service are equally important as they define the system's performance, scalability, security, and overall user experience.

- **Diagrams:**

We will be showing all kinds of diagrams of our projects such as use case diagram, class diagram etc. This diagram will help to understand easily what our project is and what are the different actors/users of our website, the modules and other all things. We will draw the following diagram in our project

Use case diagram

Class diagram

Sequence diagram

Activity diagram

State diagram

- **Prototype:**

Using Figma we will show how the website will look like. What will be the design of our website or a similar type of design of how our website will look after completion of the project. We can say that prototype of our website will be shown using the Figma tool.

- **Implementation Progress:**

Working website will be done using different languages and implement the website using Figma tool. We will execute code and make it a working website and make it like the way it is shown in our prototype or what we have tried to show in the photos created using Figma tool.

- **References:**

List out the sources, references, or materials cited throughout the report. These references are the websites or anything that has helped us to make our website, helped to take some or the other things from their website and improve it by ourself, update it and implement it on our website with something new other than that.

Chapter 2 – LITERATURE SURVEY

On Road Vehicle Service is a various aspects related to the automotive industry, To create On Road Vehicle Service, an android application, we conducted a literature review to understand the exiting landscape of car customization, the challenges they address, and the innovations that can be incorporated into our project.

Here are some applications.

2.1 Auto i-care:

Features auto icare:

- Site :
- It provides support through call and WhatsApp
- It gives service for all types of vehicle brands from domestic to European.
- The service is provided within 20 min in tier 1 and tier 2 cities and around 3 mins in tier 3 cities.
- It is operated around 998 major cities.
- The service is guaranteed.

Drawback of auto icare:

- Inadequate Customer Support: If the application offers products or services, a lack of or subpar customer support can lead to customer dissatisfaction.
- Inadequate Contact Information: For business applications, clear and accessible contact information is essential for customer inquiries and trust.

2.2 GoMechanic:

Features : Go Mechanic

- t has the most standard pricing and saves up to 35 per cent in cost.
- It gives you the real-time updates of the repair.
- The replacement of the parts is guaranteed with genuine ones.
- It also provides you refer and earn feature.

Drawback of GoMechanic:

- Browser Compatibility: Compatibility issues with specific app can limit the accessibility and usability of the tool.
- Lack of Options: Limited customization options can be disappointing for users who want a wide range of choices for their vehicle modifications.
- Technical Requirements: Some 3D builders may have high hardware or software requirements, which could exclude certain users.

2.3 Garage Pro:

Features Garage Pro:

- It maintains the history of all the cars that you have scanned.
- It also supports service and oil reset functions.
- You can use the app absolutely free of cost.
- It is compatible with almost all cars which are compliant to OBD2 standard.

Drawback of Garage Pro:

- Poor Design and User Interface: A cluttered or confusing design can make it difficult for users to navigate the site.

2.4 Repair Buddy Vehicle Repair App

Features Repair Buddy:

- It acts as a repair buddy for you.
- It consists of the assemble diagrams which are given in a very detailed manner.
- It consists of information about all kinds of vehicles from 1985 to the present.
- It provides complete mile-maintenance schedules to reap the maximum benefits and not a profit opportunity.

• Drawback of Repair Buddy :

- Inadequate Customer Support: If the applications offers products or services, having no or subpar customer support can lead to dissatisfaction among customers.

2.5 Car Problem And Repair:-

Features Car Problem And Repair:

- It gives you all the information which is needed to know about your car.
- It detects the faults and gives you the solution to fix it.

- It caters to all possible brands of the vehicle.
- It can be operated in the offline mode as well.

Drawback of car and repair app :

- Privacy Concerns: If the application collects user data, it should have a clear and comprehensive privacy policy to address user concerns.
- Slow Loading Times: If the application takes a long time to load, it can be frustrating for users and may lead to a high bounce rate.

2.7 Comparison Table

FEATURES	Auto i-care	Go Mechanic	Garage Pro	Repair Buddy	Car problem and Repair
Skin Wrap	Available	Not Available	Not Available	Not Available	Available
painting	Available	Available	Available	Available	Available
Service	Available	Available	Available	Available	Available
Buy Accessories	Not Available	Not Available	Available	Not Available	Available
Car washing	Available	Available	Not Available	Not Available	Available

Table 2.7.1 Comparison Table

Chapter 3 - SOFTWARE REQUIREMENT SPECIFICATION (SRS)

Software Requirements Specification (SRS) is a document that describes what a software system should do and how it should do it. It is a formal agreement between the customer and the developer, and it serves as the basis for the software development process.

3.1 Functional requirements

Functional requirements for On Road Vehicle Service to Ensure a smooth and user-friendly experience for both customers and administrators. These requirements can depending on the context and purpose of the car services.

3.1.1 Functional Requirements for Module Garage Owner

3.1.1.1 Log In

Input: Required fields to login are Email and password.

Process: The Email and password are verified from the database and if it's matched with the database data then login will be successful.

Output: If the user doesn't have signed up and try to login it will take to sign up page.

3.1.1.2 Manage Data

Input: Garage Owner can input, update & delete the data of Car owner.

Process: Validate input, store and retrieve customer data securely, maintain activity logs, and optionally manage communication history.

Output: Display a list of customers, detailed views, success/error messages, and account status indicators.

3.1.2 Functional Requirements for Module Car Owner

3.1.2.1 Sign In

Input: Required fields to Sign In are F Name, L Name, Email, password, confirm password.

Process: We need to check whether all requirements are filled with valid data or not. Once Validation is finished successfully; the next step is to insert that data into table in the database.

Output: Once registered successfully, the user will be acknowledged with a success message and will get redirected to the member's page.

3.1.2.2 Log In

Input: Required fields to login are Email Id and password.

Process: The Email Id and password are verified from the database and if its matched with the database data then login will be successful.

Output: If the user doesn't have signed up and try to login it will take to sign up page .

3.1.2.3 Facilities Items

Input: Click on Facilities.

Output: It will show all the Sub-Service of that particular Facilities.

3.1.2.4 Payment

Input: Required fields for Payment are member, payment mode.

Process: We need to check whether all requirements are filled with valid data or not. Once Validation is finished successfully; the next step is to insert that data into table in the database.

Output: show message "Payment successfully".

3.2 Non-Functional requirements

Non-functional requirements for an On Road Vehicle Service are equally important as they define the system's performance, scalability, security, and overall user experience.

3.2.1 Reliability

- Fault Tolerance: Design the system to gracefully handle failures without data loss.
- Backup and Recovery: Implement regular data backups and have a disaster recovery plan in place.

3.2.2 Security

- Authentication: Ensure strong user authentication mechanisms to prevent unauthorized access.
- Firewalls and Intrusion Detection: Deploy firewalls and intrusion detection systems to protect against attacks.

3.2.3 Performance

- Response Time: Ensure that the application responds quickly to user actions, with customization option selection.
- Load Testing: Conduct load testing to determine the system's capacity and identify performance bottlenecks.

3.2.4 Scalability

- Horizontal Scalability: Design the system to scale horizontally by adding more servers or resources to accommodate increased user traffic.
- Vertical Scalability: Allow for vertical scaling by upgrading server hardware as needed.

3.2.5 Usability

- User-Friendly Interface: Design an intuitive and user-friendly interface that is easy to navigate.
- Accessibility: Ensure the application complies with accessibility standards to accommodate users with disabilities.

3.2.6 Compatibility

- Mobile Responsiveness: Ensure that the application is optimized for mobile devices.

3.2.7 Documentation

- Provide comprehensive documentation for administrators and users.

3.2.8 Adaptability

- Allow the system to evolve with changing user needs.

3.2.9 Data Backup & Recovery

- Data Backup: Regularly backup user data and customization preferences.
- Data Recovery: Ensure the ability to restore user data in case of data loss.

Chapter 4 – DESIGN DIAGRAMS

4.1 USE CASE DIAGRAM:

Use-case diagrams describe the high-level functions and scope of a system. These diagrams also identify the interactions between the system and its actors. The use cases and actors in use-case diagrams describe what the system does and how the actors use it, but not how the system operates internally.

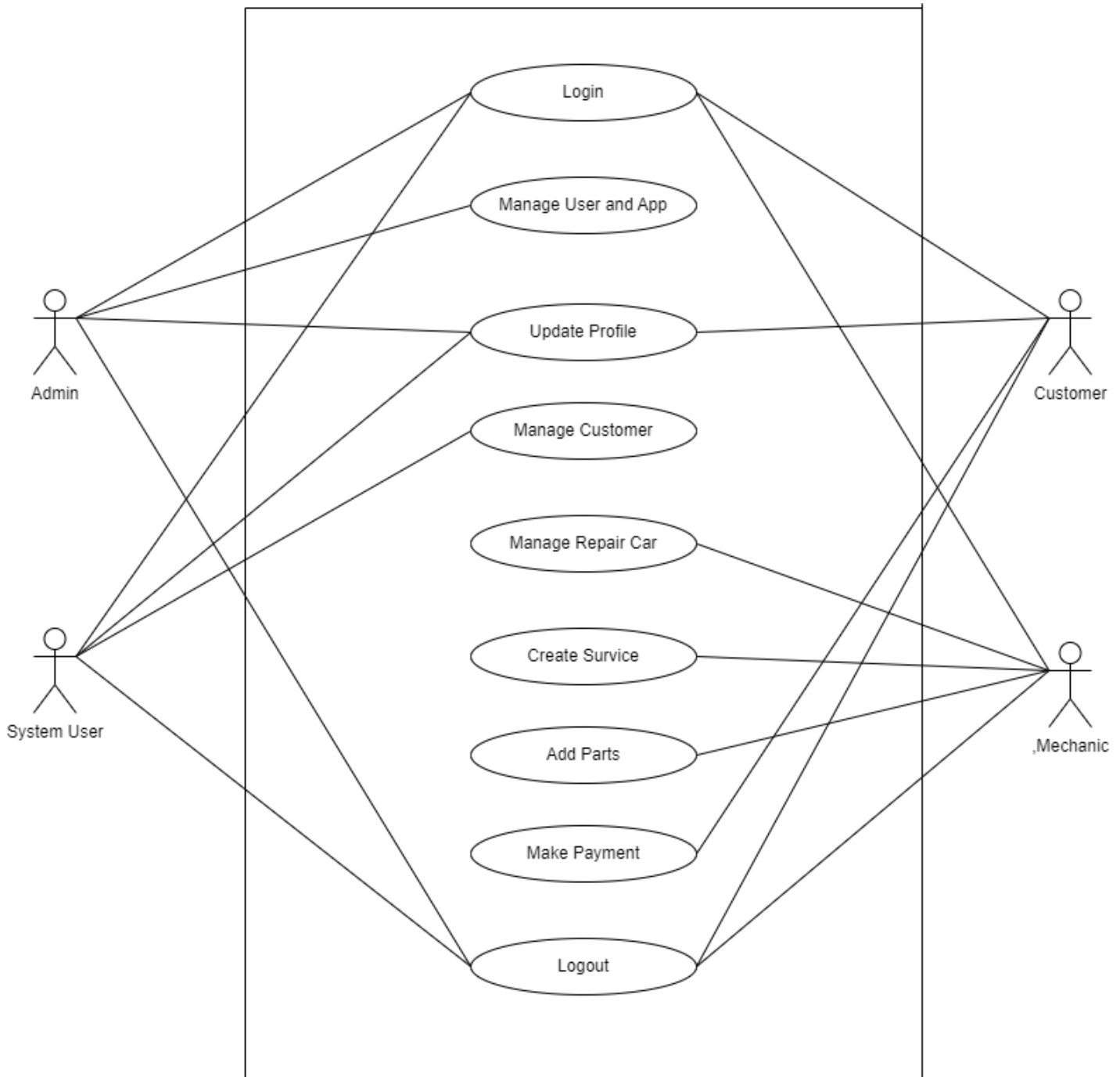


Fig 4.1 Use Case Diagram

4.2 CLASS DIAGRAM:

Class diagrams are the blueprints of your system or subsystem. You can use class diagrams to model the objects that make up the system, to display the relationships between the objects, and to describe what those objects do and the services that they provide. Class diagrams are useful in many stages of system design.

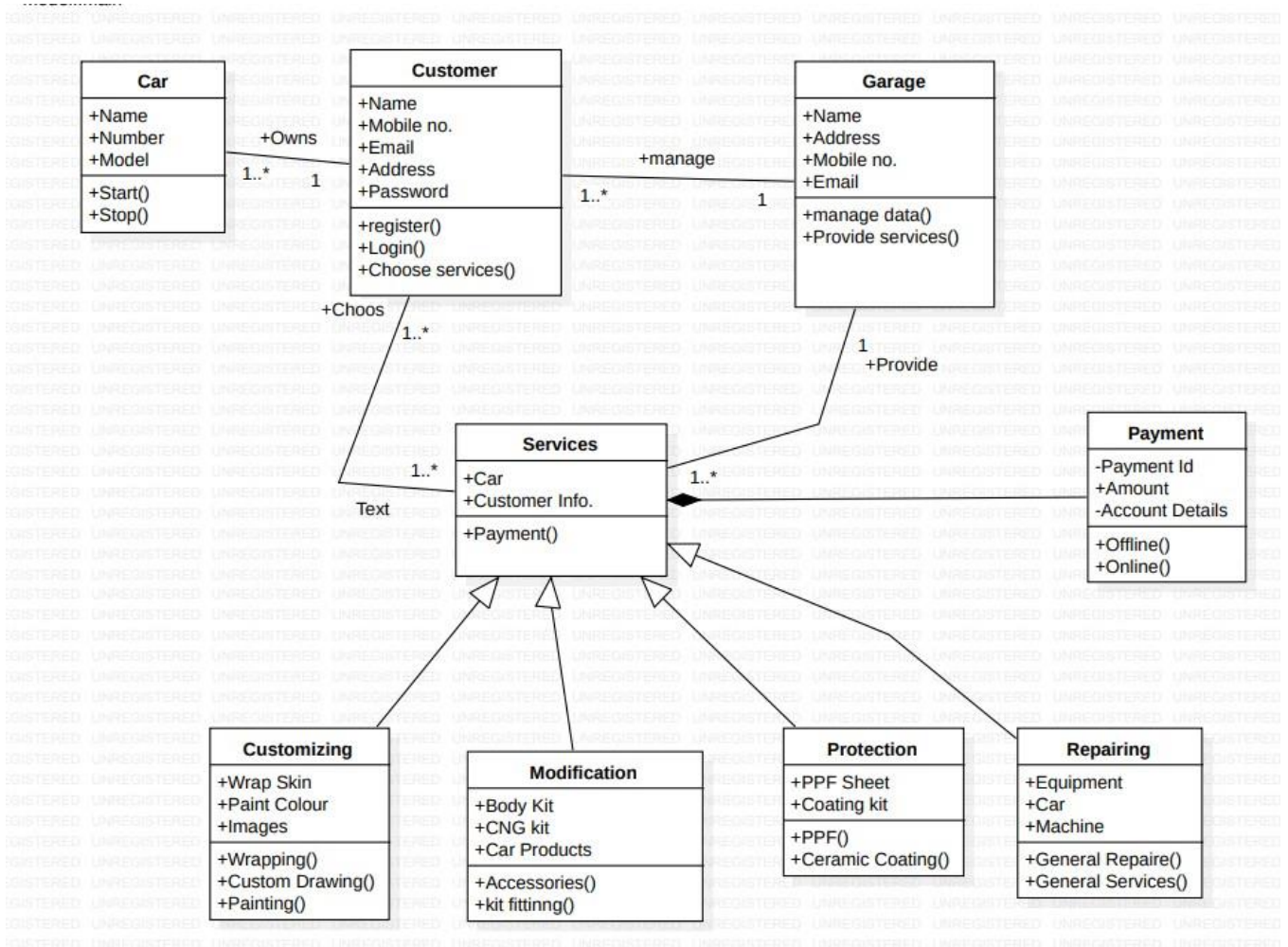


Fig 4.2 Class Diagram

4.3 ACTIVITY DIAGRAM:

Activity diagrams show the flow of one activity to another within a system or process. Even complex systems can be visualized using activity diagrams. They are used within organizations to model customer journeys, to show the process of receiving an order through shipping to the customer, and to model sales processes.

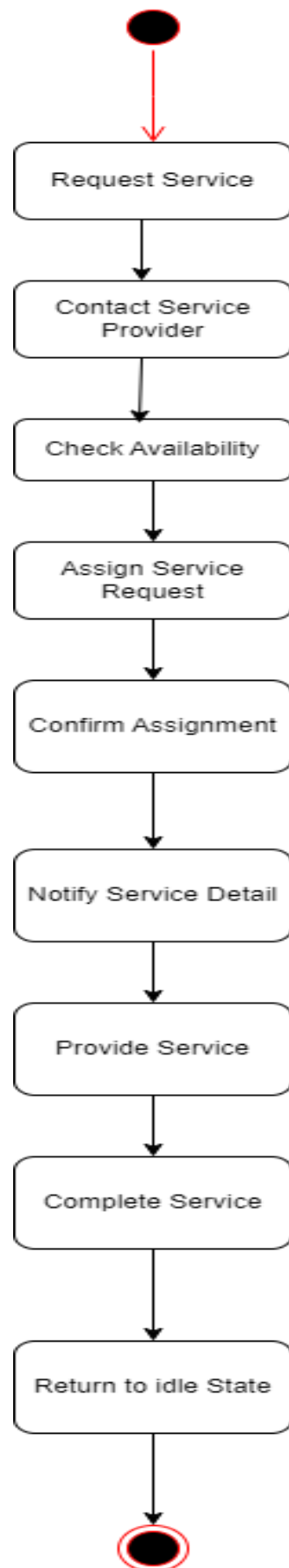


Fig 4.3 Activity Diagram

4.4 SEQUENCE DIAGRAM:

A sequence diagram shows the sequence of messages passed between objects. Sequence diagrams can also show the control structures between objects. For example, lifelines in a sequence diagram for a banking scenario can represent a customer, bank teller, or bank manager.

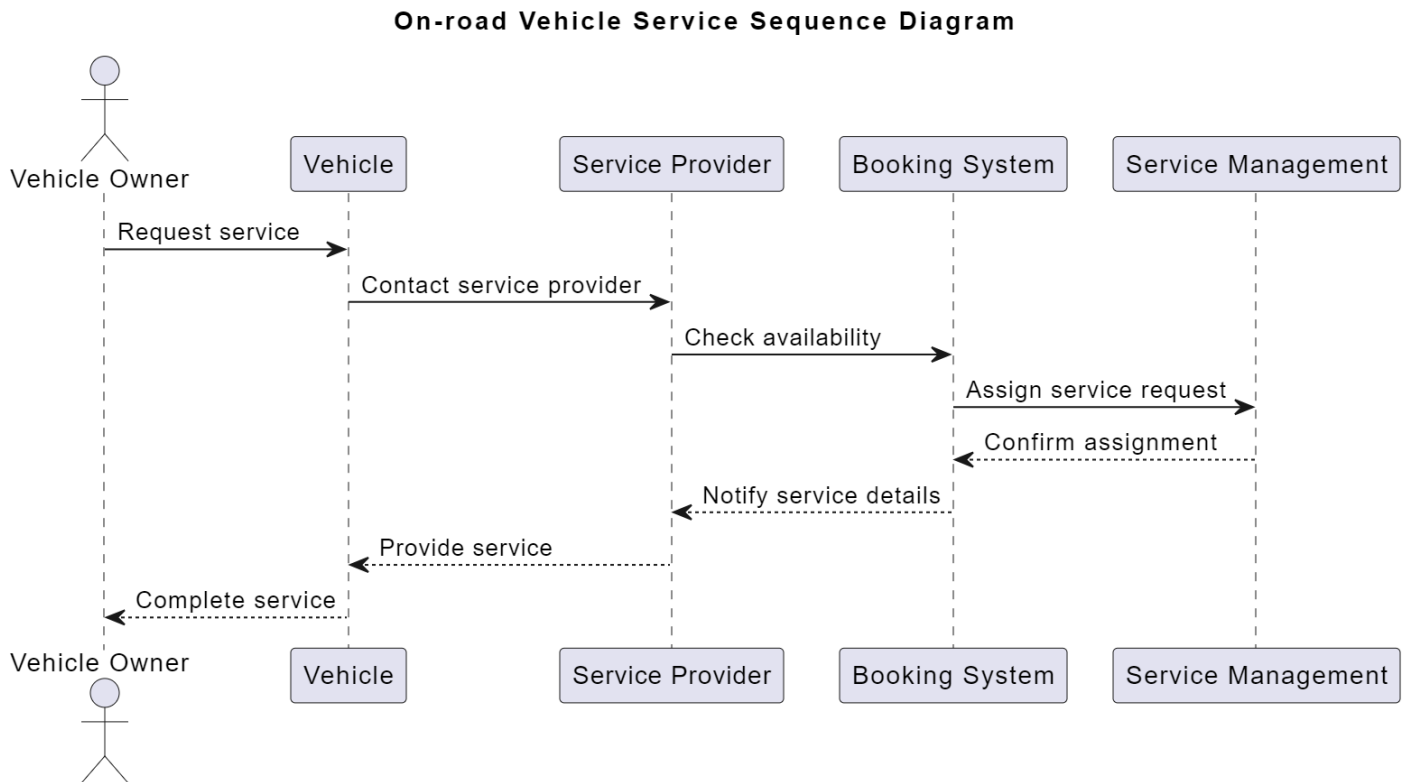


Fig 4.4 Sequence Diagram

4.5 STATE DIAGRAM:

A state diagram is a type of diagram used in computer science and related fields to describe the behavior of systems. State diagrams require that the system described is composed of a finite number of states; sometimes, this is indeed the case, while at other times this is a reasonable abstraction.

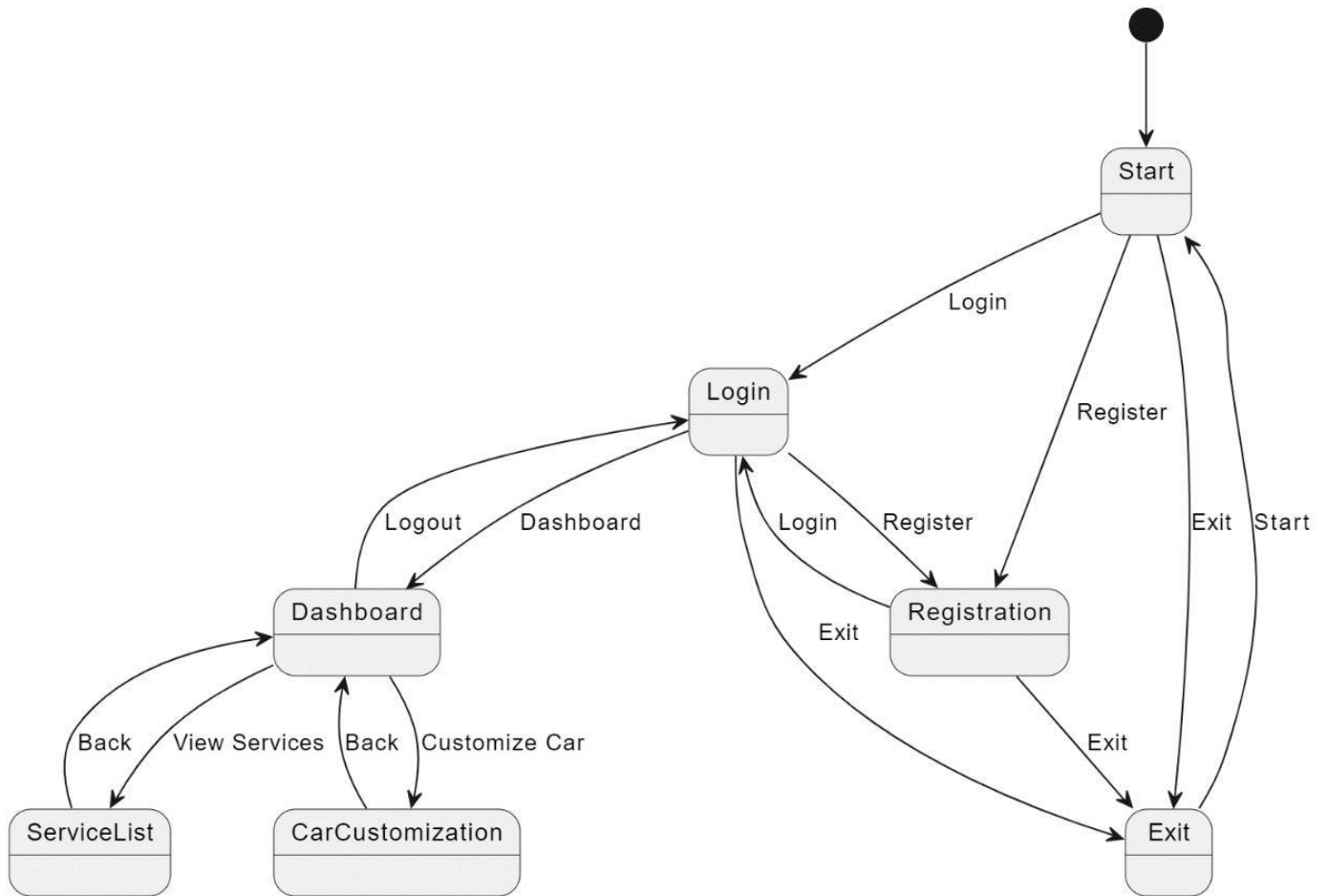


Fig 4.5 State Diagram

4.6 Data Flow Diagram:

4.6.1 DFD Level-0:

DFD Level 0 is also called a Context Diagram. It's a basic overview of the whole system or process being analysed or modelled. It's designed to be an at-a-glance view, showing the system as a single high-level process, with its relationship to external entities.

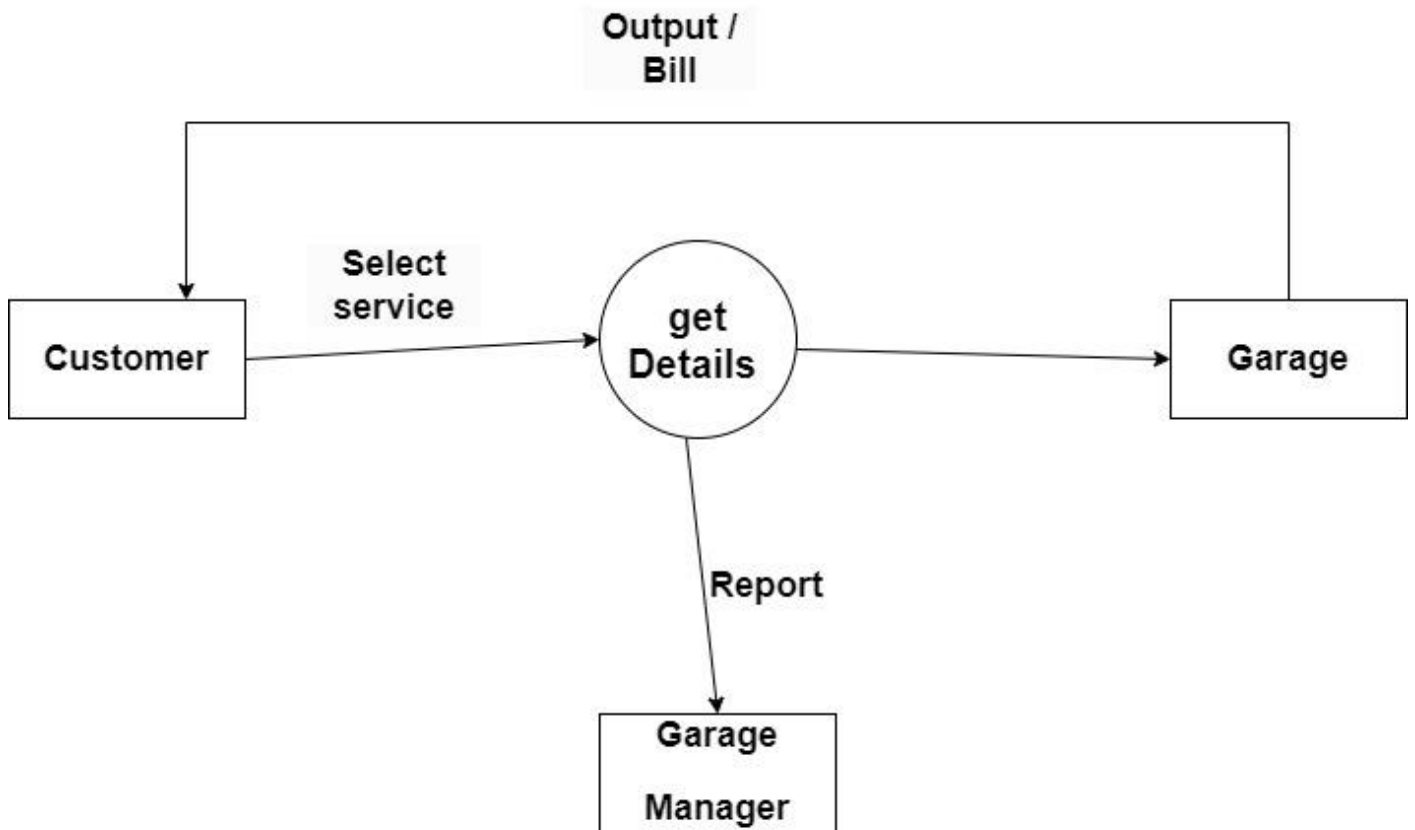


Fig 4.6.1 DFD Level-0

4.6.2 DFD Level-1:

Level 1 DFDs are still a general overview, but they go into more detail than a context diagram. In level 1 DFD, the single process node from the context diagram is broken down into sub-processes. As these processes are added, the diagram will need additional data flows and data stores to link them together.

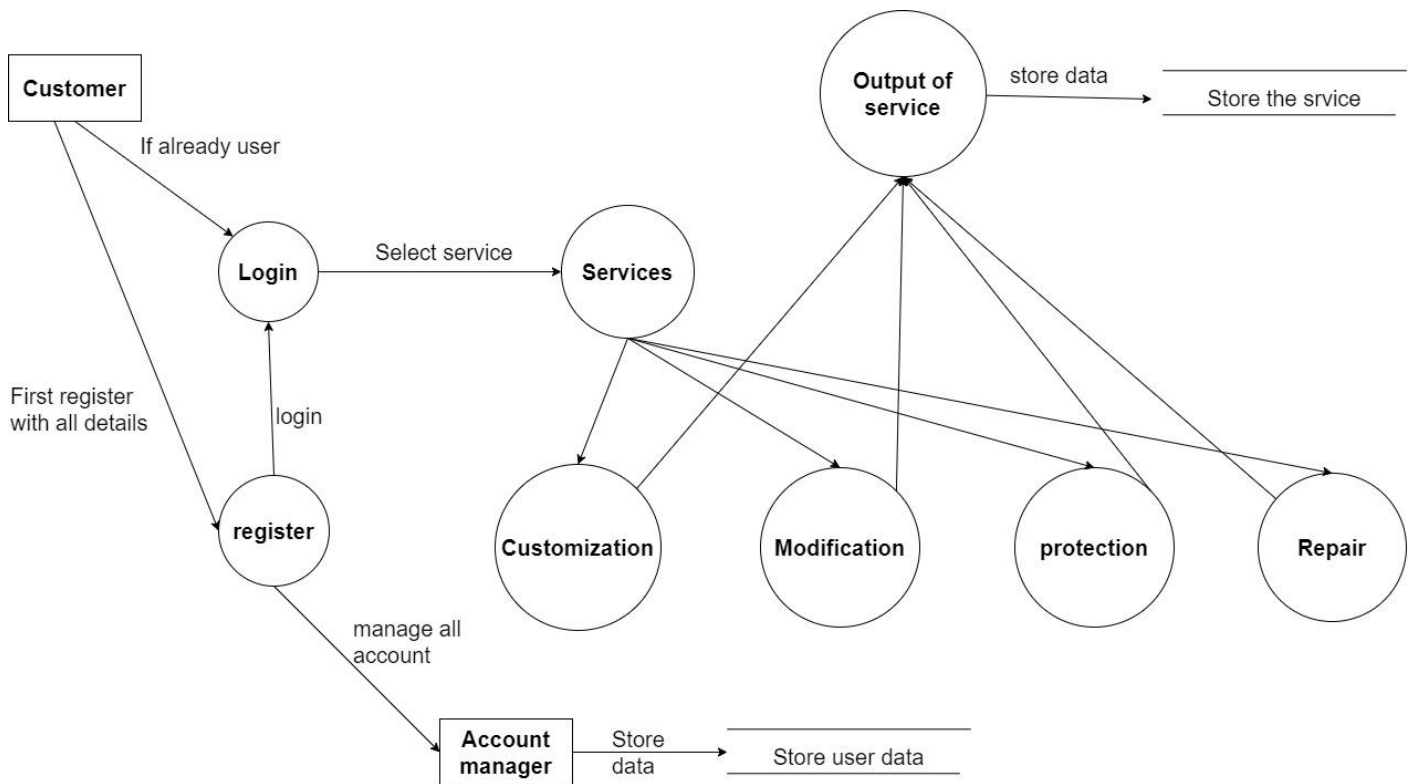


Fig 4.6.2 DFD Level-1

4.6.3 DFD Level-2:

This level provides an even more detailed view of the system by breaking down the sub-processes identified in the level 1 DFD into further sub-processes. Each sub-process is depicted as a separate process on the level 2 DFD. The data flows and data stores associated with each sub-process are also shown.

4.6.3.1 DFD Level-2 of Account Management:

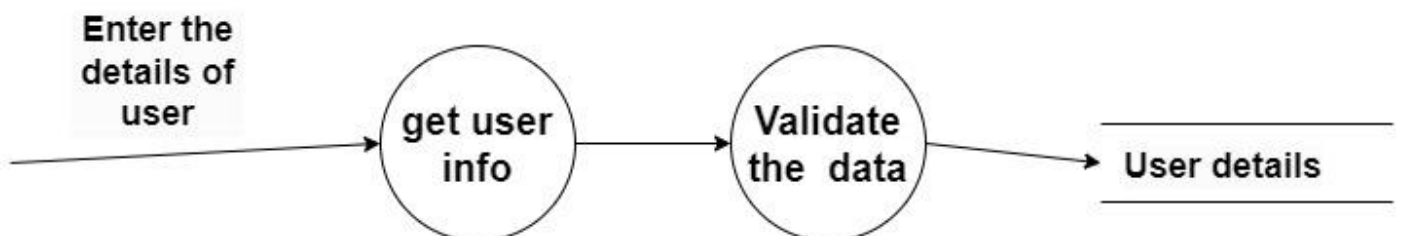


Fig 4.6.3.1 DFD Level-2 of Account Management:

4.6.3.2 DFD Level-2 of Repairing:

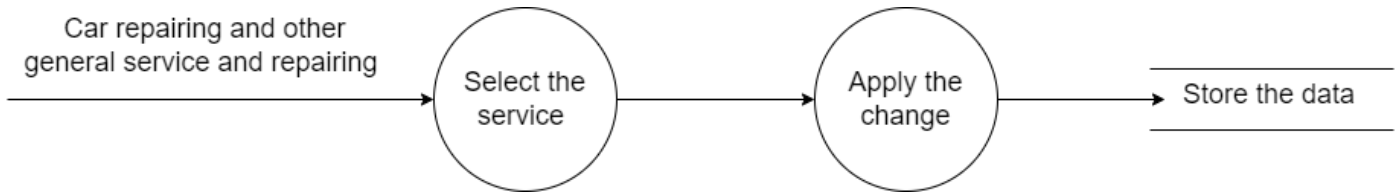


Fig 4.6.3.2 DFD Level-2 of Repairing:

4.7 Data Dictionary:

4.7.1 Admin:

No.	Field	Data Type	Key	Description
1	Username	Varchar(20)	Not Null	
2	Password	Varchar(20)	Not Null	

Table 4.7.1 Admin Table

4.7.2 User

No.	Field	Data Type	Key	Description
1	Full Name	Varchar(20)	Not Null	
2	Email	Varchar(20)	Not Null	
3	Password	Varchar(20)	Not Null	
4	Mobile No	Int	Not Null	
5	Address	Varchar(20)	Not Null	

Table 4.7.2 User Table

4.7.3 Service

No.	Field	Data Type	Key	Description
1	ID	Int	Primary	
2	Service Name	Varchar(255)	Not Null	
3	Price	Varchar(255)	Not Null	
4	Photo	Varchar(255)	Not Null	

Table 4.7.3 Service Table**4.7.4 Feedback**

No.	Field	Data Type	Key	Description
1	Service Name	Varchar(255)	Not Null	
2	Email	Varchar(255)	Primary Key	
3	User Mobile No	Int	Not Null	
4	Message	Varchar(255)	Not Null	

Table 4.7.4 Feedback Table

Chapter 5 – PROTOTYPE

5.1 Prototypes for Customer Module:

The prototype of customer includes to register and sign up and all the services provided by the garage owner such as customizing, modification, services, and buying accessories.

The below prototype is of the registration page of the customer.

The image displays two mobile app prototypes for the registration page. The left prototype shows two main buttons: 'User Login / Registration' with a person icon and a plus sign, and 'Mechanic Login / Registration' with a mechanic icon. The right prototype shows a detailed registration form with fields for Username, Password, Contact, Email, Address, and City, followed by a 'REGISTRATION' button.

Fig 5.1 Registration Page

After the successful registration the customer need to login and so the below is the prototype for login.

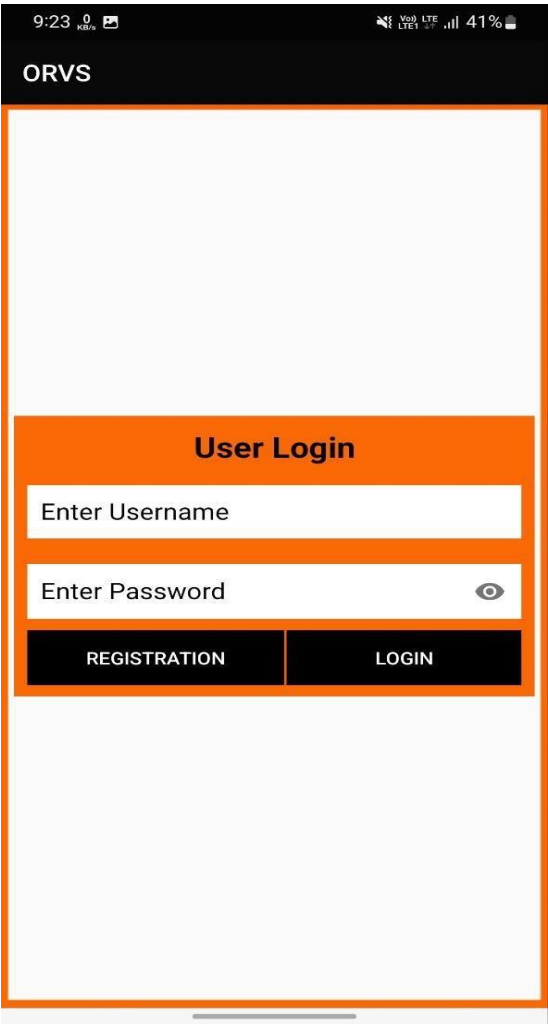


Fig 5.2 Sign In Page

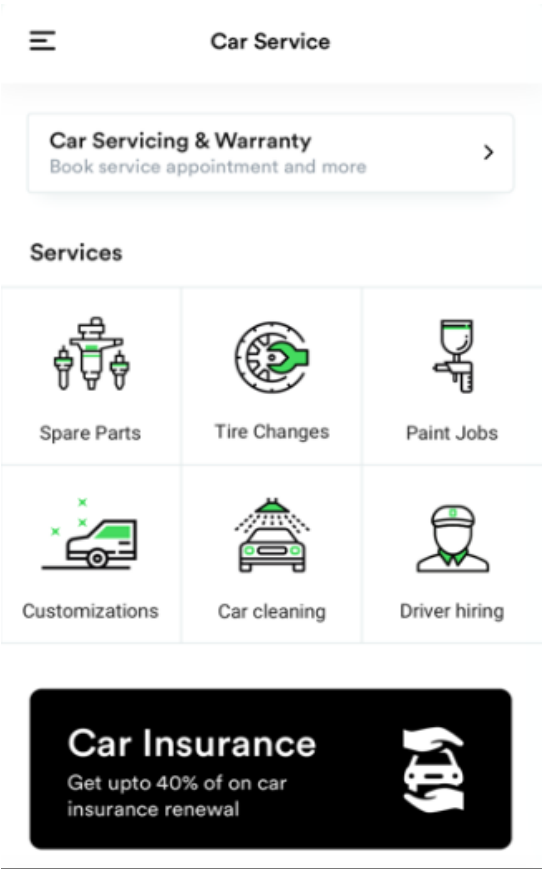


Fig 5.3 Services for Customer

Chapter 7 – CONCLUSION AND FUTURE WORK

7.1 Conclusion:

- Person don't have complete knowledge regarding all information. They need accurate information available to them instantly in order to choose the best vehicle service. The user should be aware of all the service options if they make a particular choice of good vehicle service.
- Thus, ON ROAD VEHICLE SERVICE is an app-enable service that can be accessed from anywhere in the world through the internet ON ROAD VEHICLE SERVICE will application all the information related to the vehicle service. It will guide persons to choose better by selecting the right one.

7.2 Future works:

- Write the code for the implementation of our project.
- Try to make best out of our project and upgrade it to next step then right now.
- We will make a working model.
- Will make our website look more and more user friendly.
- Take review/feedback from other people and know what is best and what to improve further.

7.3 Limitations:

Though we tried our best but due to some reasons like time available the system has some limitations as compared to the other content providers. Since these limitations can be easily removed. Here we will discuss these things

- All the page and database are stored at server side so if server goes down then system cannot respond.
- Customer can not change any information.
- There is no downloading or uploading.
- The system requires browser to run.
- Application requires internet connection for entire operation. There is no offline mode

➤ Advantages:

- Secure registration of user's and mechanics.
- Easy access to the data.
- The new system is more user-friendly, reliable and flexible.
- Reduced manual work.

➤ **Disadvantages:-**

- Requires an active internet connection.
- System will provide inaccurate results if data not entered properly.

REFERENCES

1)Go Mechanic:

Link: <https://gomechanic.in/ahmedabad>

2)Auto I-care:

Link: <https://autoicare.in/>

3)Repair Buddy:

Link: https://download.cnet.com/repairbuddy-vehicle-repair-app/3000-2064_4-78414592.html

4)Garage Pro:

Link: <https://garage-pro-automotive.business.site/>

8. About College:

U. V. Patel College of Engineering



Ganpat University-U. V. Patel College of Engineering (GUNI-UVPCE) is situated in Ganpat Vidyanagar campus. It was established in September 1997 with the aim of providing educational opportunities to students from It is one of the constituent colleges of Ganpat University various strata of society. It was armed with the vision of educating and training young talented students of Gujarat in the field of Engineering and Technology so that they could meet the demands of Industries in Gujarat and across the globe. The College is named after Shri Ugarchandbhai Varanasibhai Patel, a leading industrialist of Gujarat, for his generous support. It is a self-financed institute approved by All India Council for Technical Education (AICTE), New Delhi and the Commissionerate of Technical Education, Government of Gujarat. The College is spread over 25 acres of land and is a part of Ganpat Vidyanagar Campus. It has six ultra- modern buildings of architectural splendor, class rooms, tutorial rooms, seminar halls, offices, drawing hall, workshop, library, well equipped departmental laboratories, and several computer laboratories with internet connectivity through 1 Gbps Fiber link, satellite link education center with two-way audio and one-way video link. The superior infrastructure of the Institute is conducive for learning, research, and training. The Institute offers various undergraduate programs, postgraduate programs, and Ph.D. programs. Our dedicated efforts are directed towards leading our student community to the acme of technical excellence so that they can meet the requirements of the industry, the nation and the world at large. We aim to create a generation of students that possess technical expertise and are adept at utilizing the technical 'know-hows' in the service of mankind. We strive towards these Aims and Objectives:

- To offer guidance, motivation, and inspiration to the students for well-rounded development of their personality.
- To impart technical and need-based education by conducting elaborated training programs.
- To shape and mold the personality of the future generation.
- To construct fertile ground for adapting to dire challenges