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03-135172-052 M.SHAHRUKH HAYAT

Auto Marvel

In partial fulfilment of the requirements for the degree of
Bachelor of Science in Computer Science

Supervisor: Shafiq Ahmed

Department of Computer Sciences
Bahria University, Lahore Campus

July 2021

Certificate



We accept the work contained in the report titled

“Auto Marvel”

written by

M.SHAHRUKH HAYAT

as a confirmation to the required standard for the partial fulfilment of the degree of
Bachelor of Science in Computer Science.

Approved by:

Supervisor: Shafiq Ahmed

(Signature)

July 30, 2021

DECLARATION

I hereby declare that this project report is based on my original work except for citations and quotations which have been duly acknowledged. I also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

Enrolment	Name	Signature
03-135172-052	M.SHAHRUKH HAYAT	

Date : July 30, 2021

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M.SHAHRUKH HAYAT

Auto Marvel

ABSTRACT

People face difficulty when finding the right kind of professional mechanics and waste a lot of time and effort to reach them when the drivers are stuck in the middle of destination due to any reason then people could not get help or locate the service stations conveniently in case of their car break-down or any other emergencies. This application will be registered and they will be getting connected with the particular mechanic through the trustworthy.

When the user using this application just On the location and then select the desire mechanics that are appear on the user screen. This service is not only for at your doorstep but also vail the services at any point of your road trip you just request it and select the option which type of mechanic you required after a few minutes mechanics have arrived at your location.

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CHAPTER 1

INTRODUCTION

1.1 Background

Now a day, people, people wish to live a luxurious life with minimum hard work. We provide a mobile application ‘ Auto Marvel’. This application is an android app that can be run on any compatible smart device. This application will enable any car user to search with any car service station within the domain by using the Global Positioning System. The user can find the service station and select the option which type of the mechanic you required after a few minutes mechanics have arrived at your location and after avail the services you can also rate the mechanics' work [1].

People could not get help or locate the service station conveniently in case of their car break-down or any other emergencies. This application will be the registered and they will be getting connected with the particular mechanic through the trustworthy as every user is rate their feedback about the availed service through this application.

We are dealing with major two categories such as mechanically or electrically car services. As the number of customers and sizes of operations is increasing then the development team increasing the geographical area.

1.2 Problem Statements

People could not get help or locate the service station conveniently in case of their car break-down or any other emergencies. The majority of the mechanic may not cooperate with us and meetings with mechanics are very tough because the majority of mechanic doesn't have enough knowledge. It would be a little bit of a hard effort to convince them to follow the instruction.

1.3 Aims and Objectives

The objectives of the thesis are shown as following:

- To solve any problem that arises in our field and provide quick solutions to all our customers.
- Maintaining the professional service we offer our customers.
- Establish our status by providing the highest quality of service possible.
- We are providing Tire, Oil change, and all other mechanically and electrically services.

1.4 Scope of Project

The main purpose of this application is that users will be registered and they will be getting connected with the particular mechanic through the trustworthy and users contacts with mechanic at the particular place may look for help. This project provides an automobile servicing system more effectively than the existing system and it can be made handily available to every person. Previously people could not get help or locate the service station conveniently in case of their car break-down or any other emergencies.

The users of 'Auto Marvel' can search for a list of mechanics at any location or the nearby location which will help them in unexpected situations raised by the mechanical issues of their vehicles. Only the licensed mechanics can get listed here while the search and available mechanic who can come and repair the mechanical issues in the user's vehicle.

CHAPTER 2

SOFTWARE REQUIREMENT SPECIFICATION

2.1 Overall Description

There are a few Features discuss below

2.1.1 Features& Functions

- Sign in
- Login
- Booking services provider

2.1.2 User Classes and Characteristics

- **Customers:** Customers are using this application to get a mechanic to repair their vehicles according to the problem they are facing.
- **Mechanic:** Mechanic are also searching for work from here .
- **Administrator:** The one who can edit , delete and update the services due to the request of the customer .

2.1.3 Operating Environment

Auto Marvel is a mobile application so it requires a software environment. We use Windows 10 as the operating system.

For mobile application:

The only hardware required for this project is laptop/desktop for development and mobile phone for testing.

- Native with visual studio code.
- Java for development.
- Support android version (lollipop) or more.

2.1.4 Design and Implementation Constraints

- A native is a third-party tool which may shows some limitations while designing and using native may rose some of the designing constraints that there is one code for android.
- Understandable language should be used and easy to access.

2.1.5 Assumptions and Dependencies

- This application has a database so one assumption about the product is that the admin must have access to the database.
- It is assumed that the system is secured .
- No multiple accounts of the same user exist on the login database.

2.2 External Interface Requirements

There are the following external interface requirement mention below.

2.2.1 User Interfaces

- Appointment a mechanic: User can easily reverse a mechanic.
- Sign In: This is a required function to access the application and the user can login by entering their e-mail and password.
- For Mechanic: Mechanic can register themselves to get work and the mechanic can register here by giving name, email, mobile number .

2.2.2 Hardware Interfaces

As such no hardware is required, because it is a mobile application. Laptop is required for developing and mobile (having android above 5.0) for testing.

2.2.3 Software Interfaces

- Operating System: Windows 10/Windows 8.
- User Mobile Interface: Native components and styling.
- Programming Language: Java.
- Database: Xamap ,phpMyAdmin.

2.3 Functional Requirements

There are the many functional requirement mentions below.

2.3.1 Admin:

- The application will provide the Login interface.
- Admin can view/add/update/delete the service provider information.

2.3.2 Mechanic:

- The application will provide the Login interface.
- The application will provide a registration dialog box for providing the services.

2.3.3 Registered User:

- The application will provide a registration interface.
- The user can log in to the system after providing registration details.
- The user can search mechanics and see shop address and details information.
- The user can send a request to a mechanic and post feedback regarding him.

2.4 Features Functional Requirements

There are following features function requirement mention below.

2.4.1 Servicing

- Full Service – A full service that includes extra checks and additional replacement parts.
- General Electrics – A lots of problem related with general electrics are repaired.

2.4.2 Booking details

- Complete address details and phone details of the service provider should fill.
- Date and Time for the mechanic to come is a must.

2.5 Other Non functional Requirements

There are following non-functional requirement are mention below.

2.5.1 Security Requirements

- The Customer/Mechanic must provide their email, phone number, other details and password to register.
- Sign In: Only registered users can access his/her account.
- Sign Up: No duplicate of the data of the user should be there.

2.5.2 Software Quality Attributes

- Due to its well-designed and easy-to-use interface it can be used by both experts and non-technical users.
- Users must already have a basic knowledge of using a mobile application before using it.

2.5.3 Business Rules

- Making pricing super honest, transparent and quick.
- There is warranty of the parts supplied by the mechanic.

2.6 Other Requirements

- Maintenance of the application.
- Updating to the new feathers.

CHAPTER 3

DESIGN AND METHODOLOGY

3.1 Use-case Description

A use-case description is a text that captures the detailed functionality of a use-case. Description of all use-cases are written down in this section.

3.1.1 Log In

Log In use-case description are discuss in below table .

Table 3.1: Log In

Name	Log In
Objective	User may log in if he is already registered.
Priority	High
Source	End user's
Actors	Customer/Mechanic
Flow of events: Basic Flow	<ul style="list-style-type: none"> • User open the application • User click on sign in button • User provide his email with correct password.
Exception Flow	Server is not responding
Pre Conditions	User is not registered yet.
Post conditions	User is successfully logged in
Notes/Issues	User logged in may failed due to invalid email or server down.

3.1.2 Admin profile

Admin profile use-case description are discuss in below table.

Table 3.2: Admin profile

Name	Admin profile
Objective	To check, delete and update profiles.
Priority	Medium
Source	End user's
Actors	Admin
Flow of events: Basic Flow	<ul style="list-style-type: none"> • System will show option update, delete, and view of any services profile • Admin can update the file by entering new information.
Exception Flow	Wrong mail
Pre Conditions	Home screen failed to load..
Post conditions	Screen successfully loaded and admin can view and perform all active
Notes/Issues	None

3.2 Use Case Diagram

It does not show the detail of the use cases: It only summarizes some of the relationships between use cases, actors, and systems. It does not show the order in which steps are performed to achieve the goals of each use case.

3.2.1 System Use Case

In the Use-case diagram mechanic and customer can also register by entering the information. Customers can search mechanic either electrically or mechanically and also can appoint a mechanic. The mechanic also accepts the request from the customer side. Admin can update the customer or mechanic information.

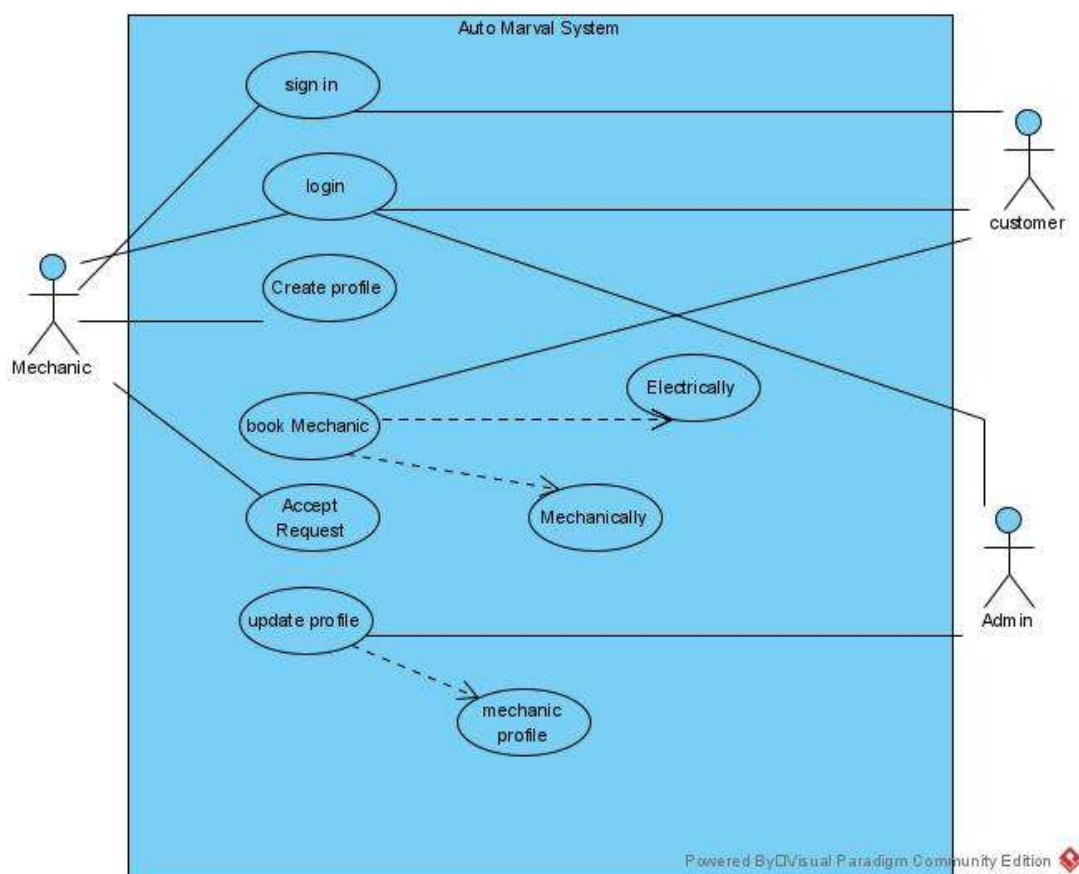


Figure 3-1: System Use-case

3.2.2 Mechanic use case

In the Use-case diagram mechanic can also register by entering the information. mechanic can create a profile either electrically or mechanically and the mechanic also accepts the request from the customer side.

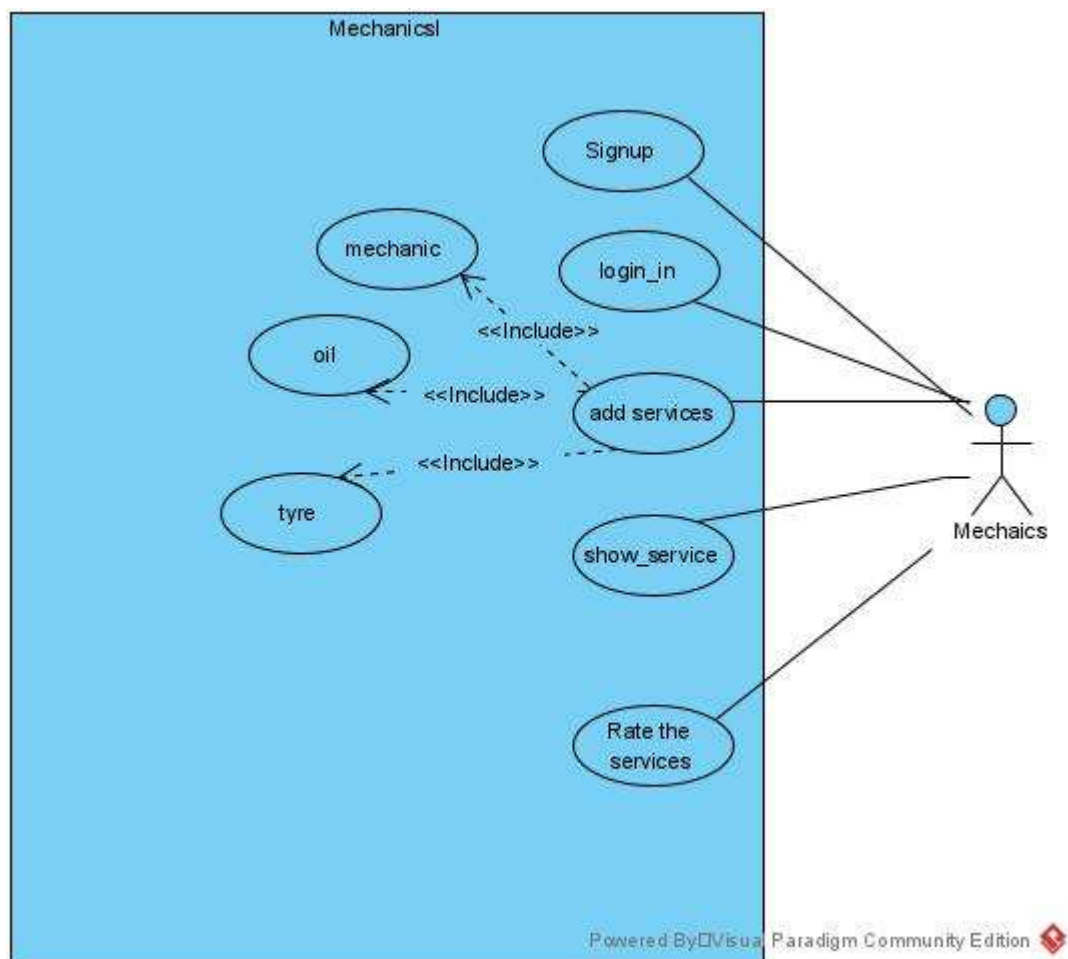


Figure 3-2:Mechanic Use-case

3.2.3 Customer use-case:

In the Use-case diagram customer can also register by entering the information. Customers can search a mechanic either electrically or mechanically and also can appoint a mechanic. The mechanic also accepts the request from the customer side.

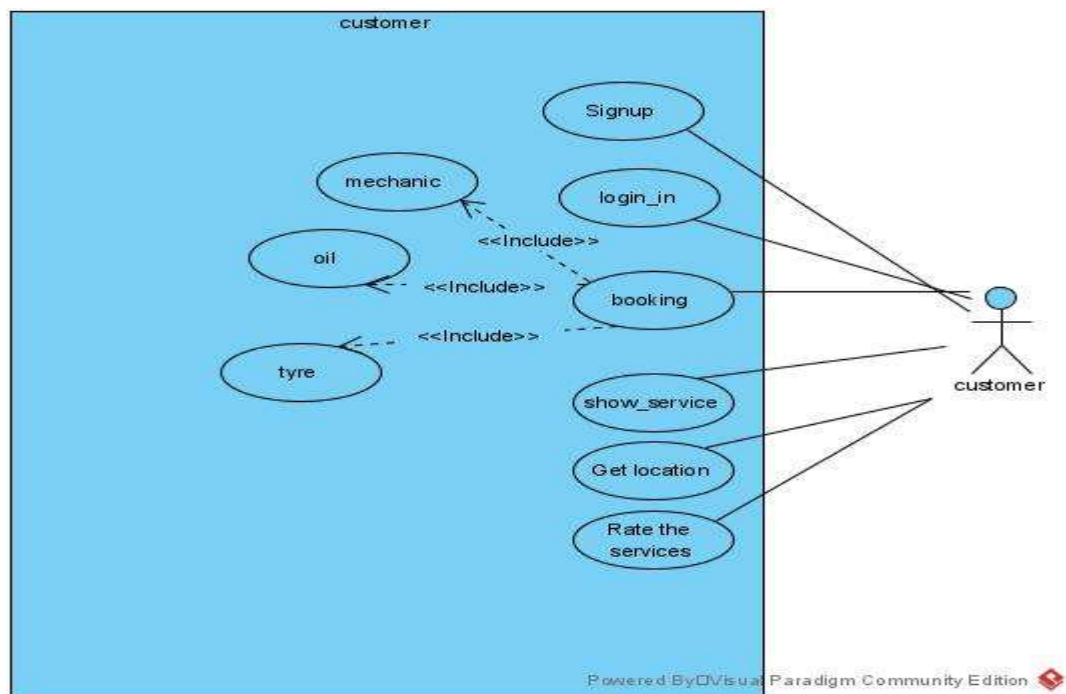


Figure 3-3:Customer Use-case

3.2.4 Admin portal use-case

In the Use-case diagram admin can also register by entering the information. Admin can update the service provider information and admin can also add or delete account of service provider.

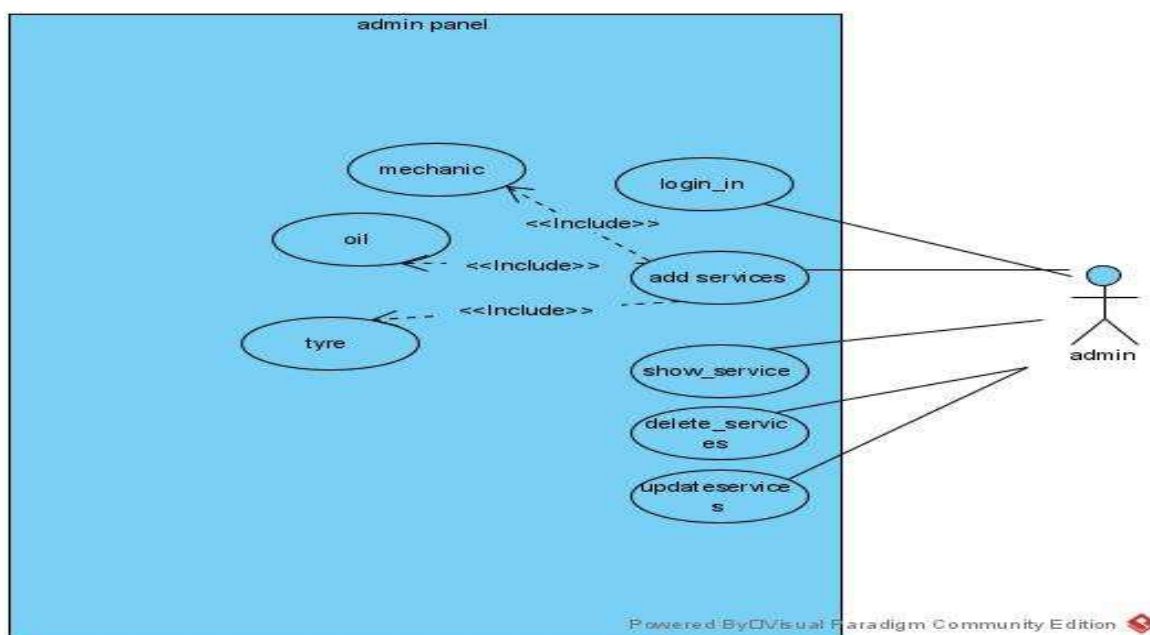


Figure 3-4 Admin Use-case

3.3 Domain Model

In the Domain models, the mechanic has relation with customer's . The customer can appoint the mechanic and sent a request to the mechanic and then the admin can update or delete the services from the providers side.

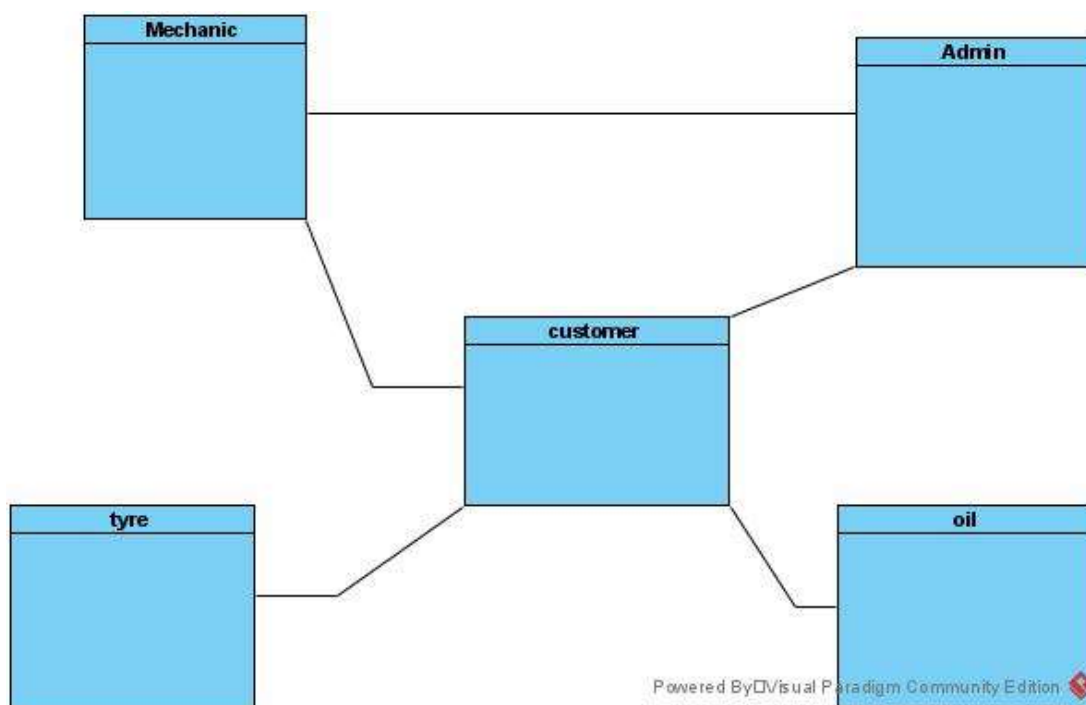


Figure 3-5: Domain Model

3.4 Sequence diagram

A Sequence diagram depicts the sequence of actions that occur in a system. A Sequence diagram is two-dimensional in nature. On the horizontal axis, it shows the life of the object that it represents, while on the vertical axis, it shows the sequence of the creation. The Sequence diagram a very useful tool to easily represent the dynamic behaviour of a system.

3.4.1 Admin profile:

Admin can delete or add the content of the customer and can also update or edit it and then saved it in the database. First admin login and then add/delete a content button and then system selected content send to the database. and database saved the record and system display a message is successfully updated.

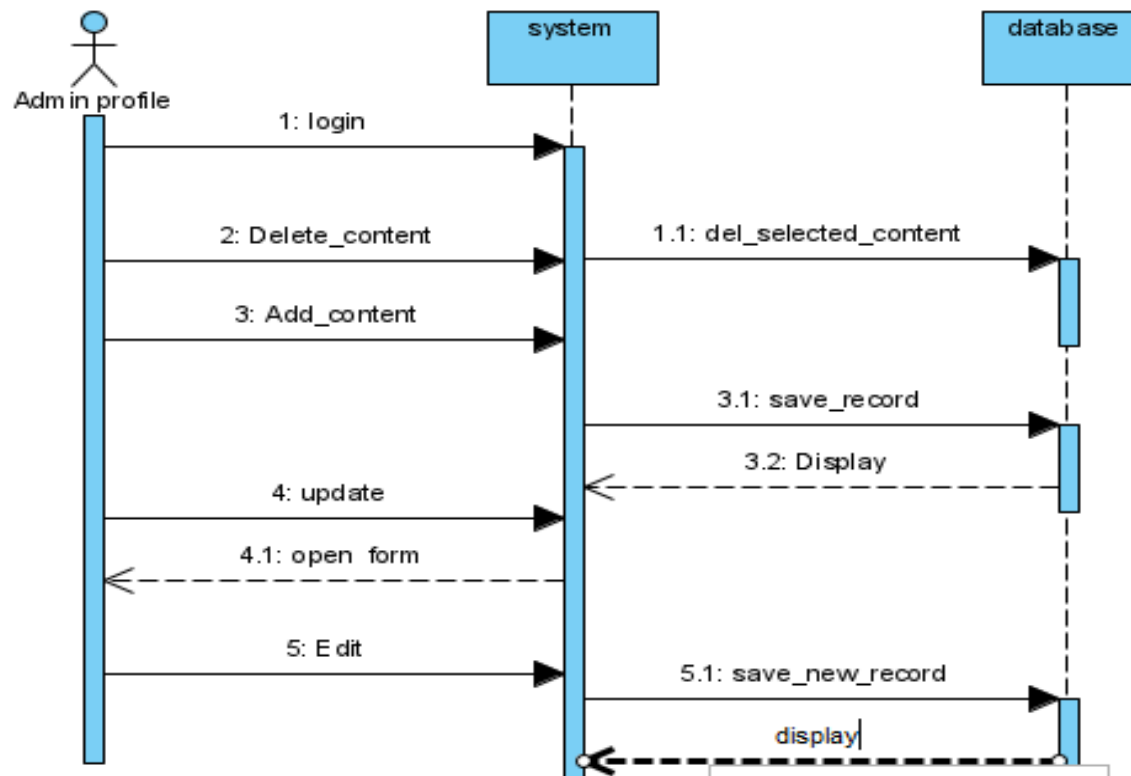


Figure 3-6:Admin profile

3.4.2 Mechanic booking:

Customer clicks on booking button and sent a request to the database to show a mechanic the location and all other necessary information are also show and then select the desired type of mechanic you required.

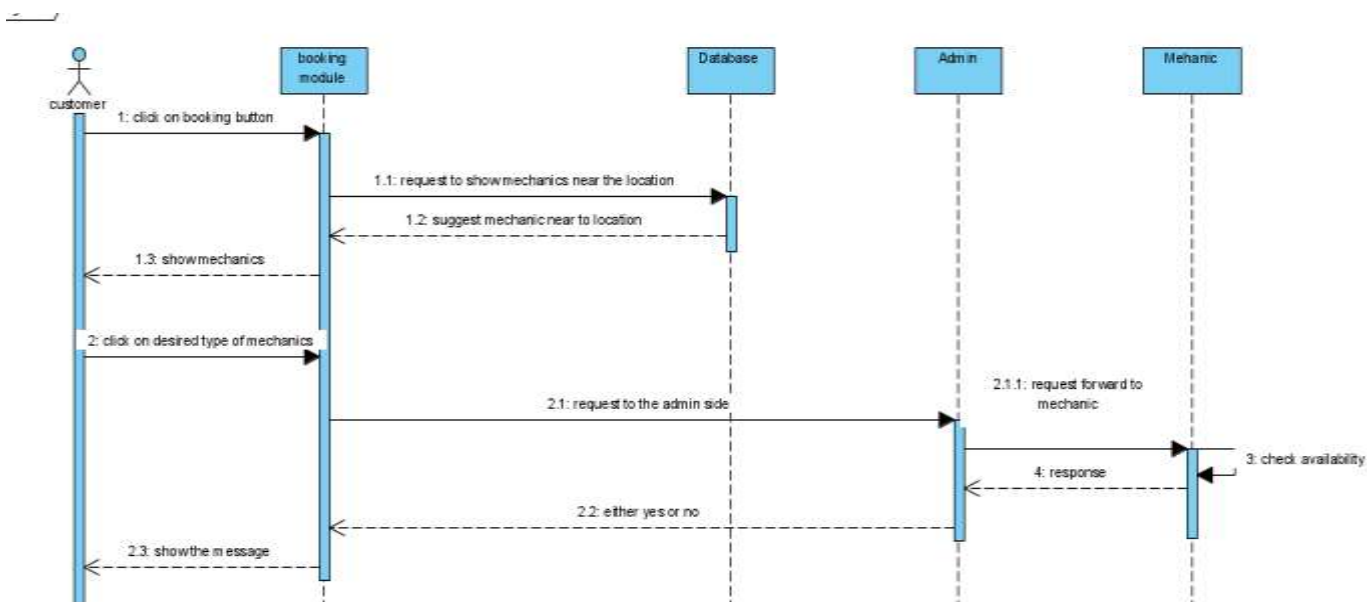


Figure 3-7:Mechanic booking

3.4.3 User create account

Users can create an account by entering by entering his/her information. First of all the user click on create account button and then open a form fill a form with the new password and then send it to the system and message is sent to the user end. When the information is successfully saved in the database then the user will be registered.

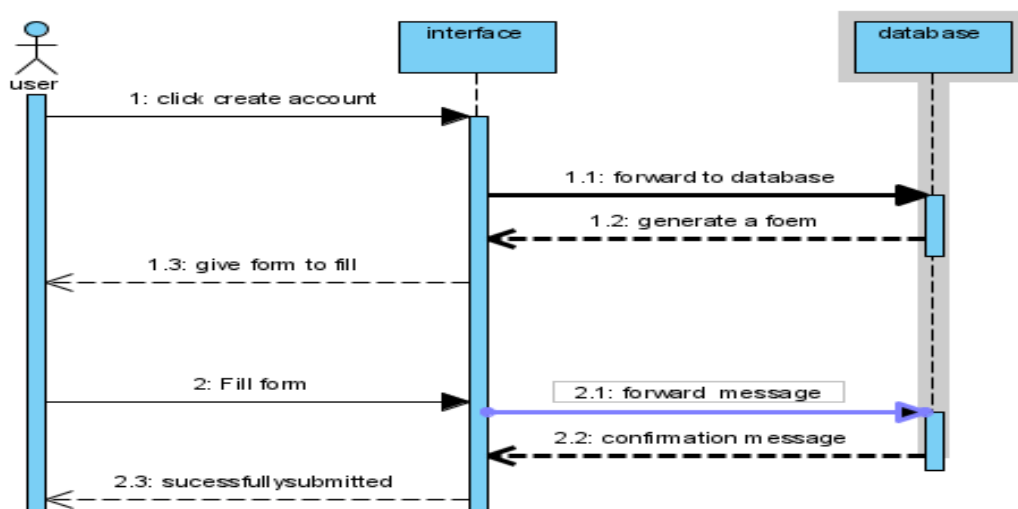


Figure 3-8:User create account

3.4.4 User login

User login by clicking the login button and then database check its valid-user by matching the user-id and then send back message to the system is authentic user and system display a login screen.

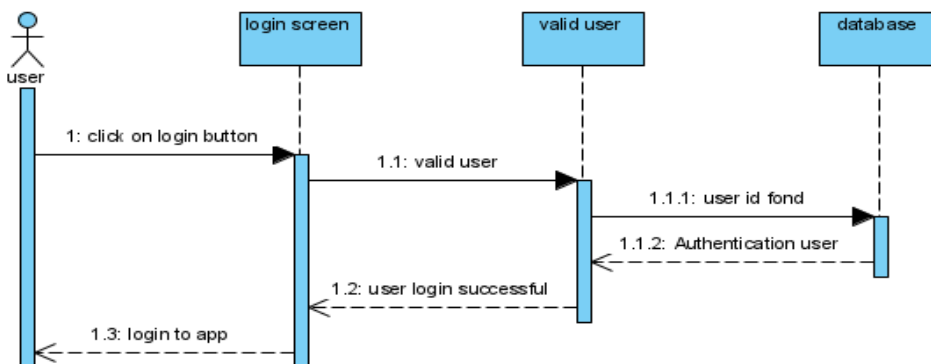


Figure 3-9:User login

3.4.5 Edit & update user profile

The user clicks on the update profile button and then generates a form the user can edit the form and then sent it to the database and after saved information in the database system display, a message is successfully updated.

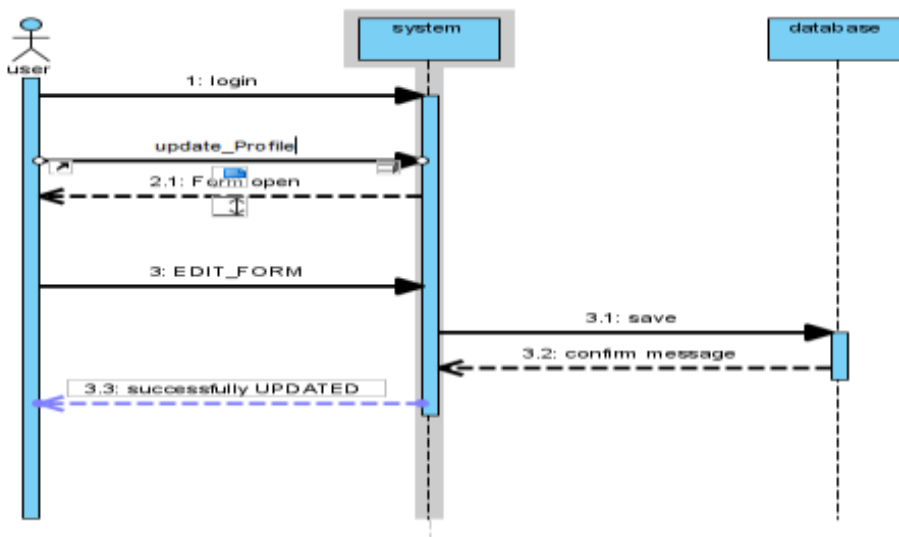


Figure 3-10:Update user profile

3.4.6 User logout:

User log out by clicking the logout button and then request forward to the database and then the session will be destroyed and redirect the user to the main page and activity.

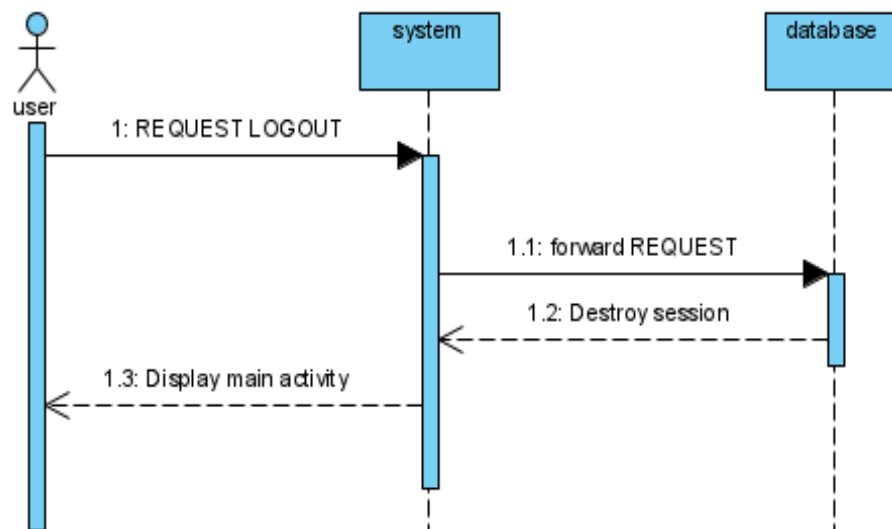


Figure 3-11:User logout

3.5 Collaboration Diagram

A collaboration diagram describes a pattern of interaction among objects; It shows the objects participating in the interaction by their links to each other and the messages that they send to each other.

Along with sequence diagrams, collaborations are used by designers to define and clarify the roles of the objects that perform a particular flow of events of a use-case.

3.5.1 Booking mechanic communication diagram

Customer can book and sent a request to the database to show a mechanic near the location and then select the desired type of mechanic you required and then admin can check the mechanic either is available or not.

Diagram 2 - Communications

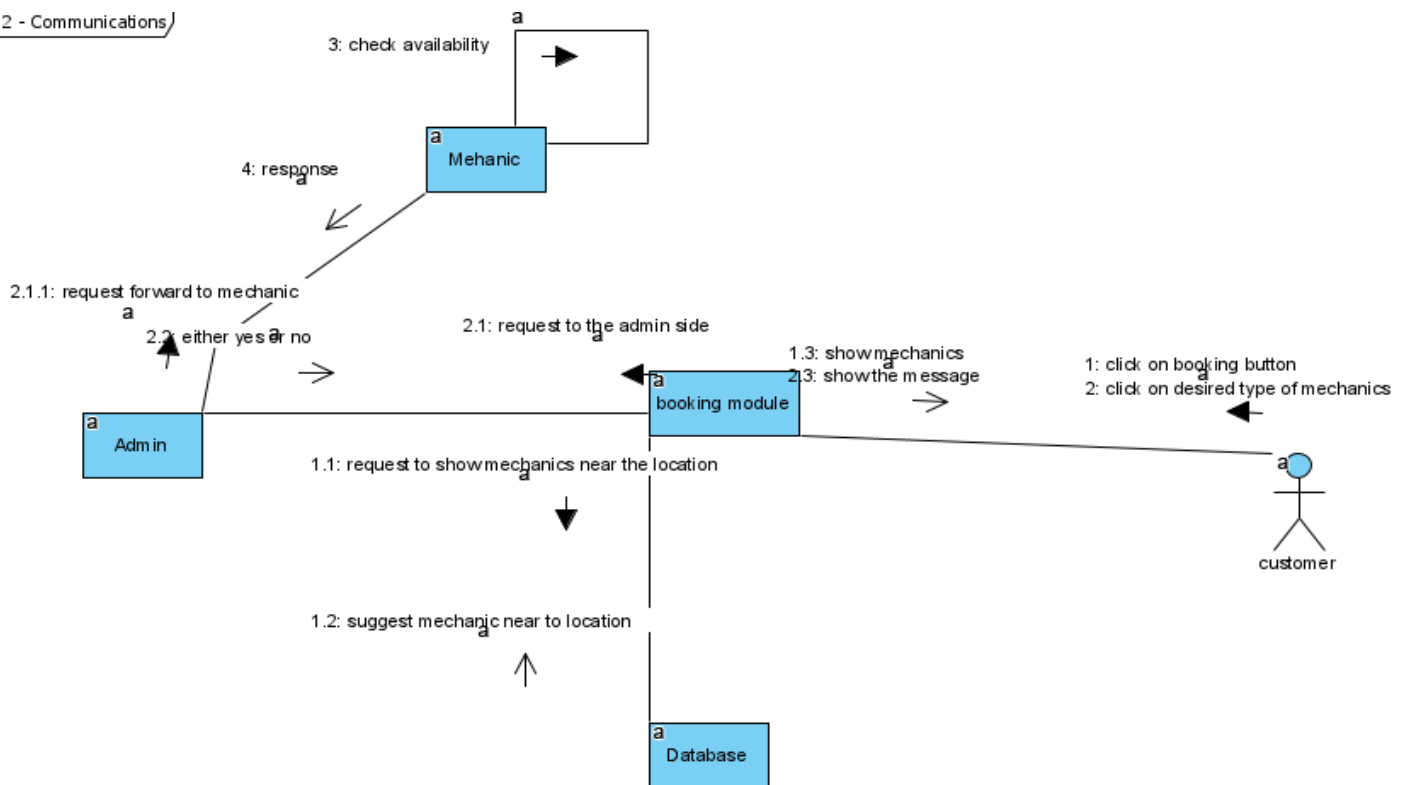


Figure 3-12: Mechanic booking communication

3.6 Operation Contracts

A UML Operation contract identifies system state changes and when an operation happens. effectively, it will define what each system operation does. An operation is taken from a system sequence diagram. It is a single event from that diagram.

3.6.1 Operation Contract :Login

- **Name:** Login
- **Responsibilities:** To authorize the user to access the system
- **Cross References:** U1
- **Exceptions:** Server down
- **Preconditions:** User must have account on database
- **Postconditions:** User will be login and access information from data base

3.6.2 Operation Contract :Admin profile

- **Name:** Admin profile
- **Responsibilities:** To check, update and delete data
- **Cross References:** U2
- **Exceptions:** Wrong Mail
- **Preconditions:** Home screen failed to load.
- **Postconditions:** Screen successfully loaded and admin can view and perform all active

3.6.3 Operation Contract :Signup

- **Name:** Signup
- **Responsibilities:** User must sign up/register to use to service of this application
- **Cross References:** U3
- **Exceptions:** Server is not responding
- **Preconditions:** User is successfully registered.
- **Postconditions:** User is successfully sign up

3.7 Design Class Diagram

In the class diagram there is 6 class (mechanic, user, customer, admin, oil, and tyre)In the class diagram, the mechanic has repaired the customer's car. The customer can appoint the mechanic and sent a request to the mechanic and then the admin can delete and update the profile of service provider.

Customer can be booking the mechanic by sending the request and the mechanic can accept the request after the repairing, the customer can also rate the mechanic work.

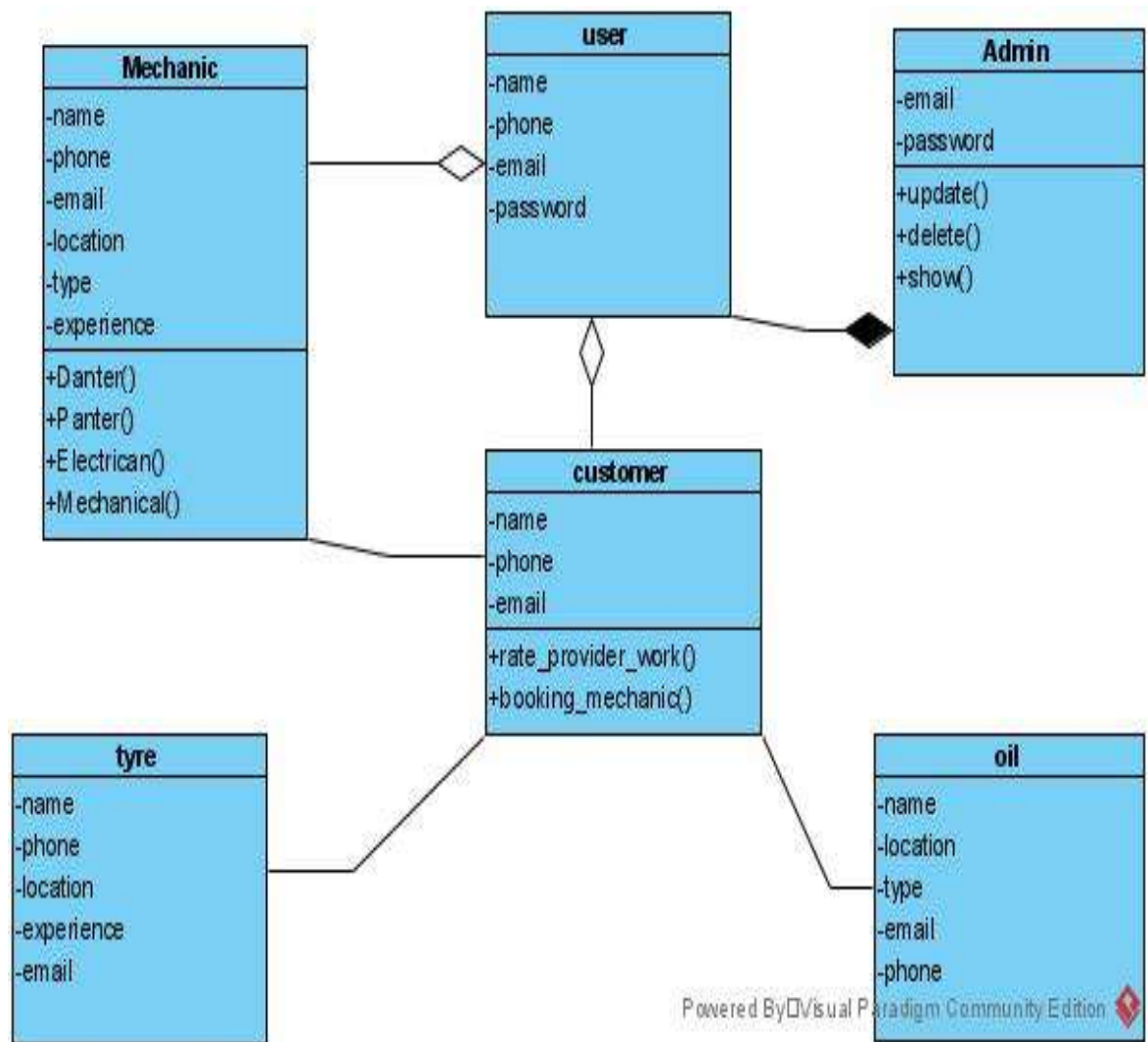


Figure 3-13:Class Diagram

3.8 Data Model

The data model is a subset of the implementation model, which describes the logical and physical representation of persistent data in the system.

3.8.1 Mapping Attributes

Table 3.1 shows the mapping of attributes on respective entities.

Table 3.3: Mapping Attributes

Attribute	Entity	Attribute	Entity
<ul style="list-style-type: none"> • Name • email • phone 	Customer	<ul style="list-style-type: none"> • type • name • location • phone • email 	Oil
<ul style="list-style-type: none"> • name • phone • location • experience • type • email 	Mechanic	<ul style="list-style-type: none"> • name • location • experience • email • phone 	Tyre
<ul style="list-style-type: none"> • username • password 	Admin		

3.8.2 Draw Fully Attributed ERD

In the ERD diagram, the mechanic has repaired the customer's car. The customer can appoint the mechanic and send a request to the mechanic, and the admin can delete and update the profile of service provider.

Customer can be booking the mechanic by sending the request, and the mechanic can accept the request, and the customer can rate the mechanic worked.

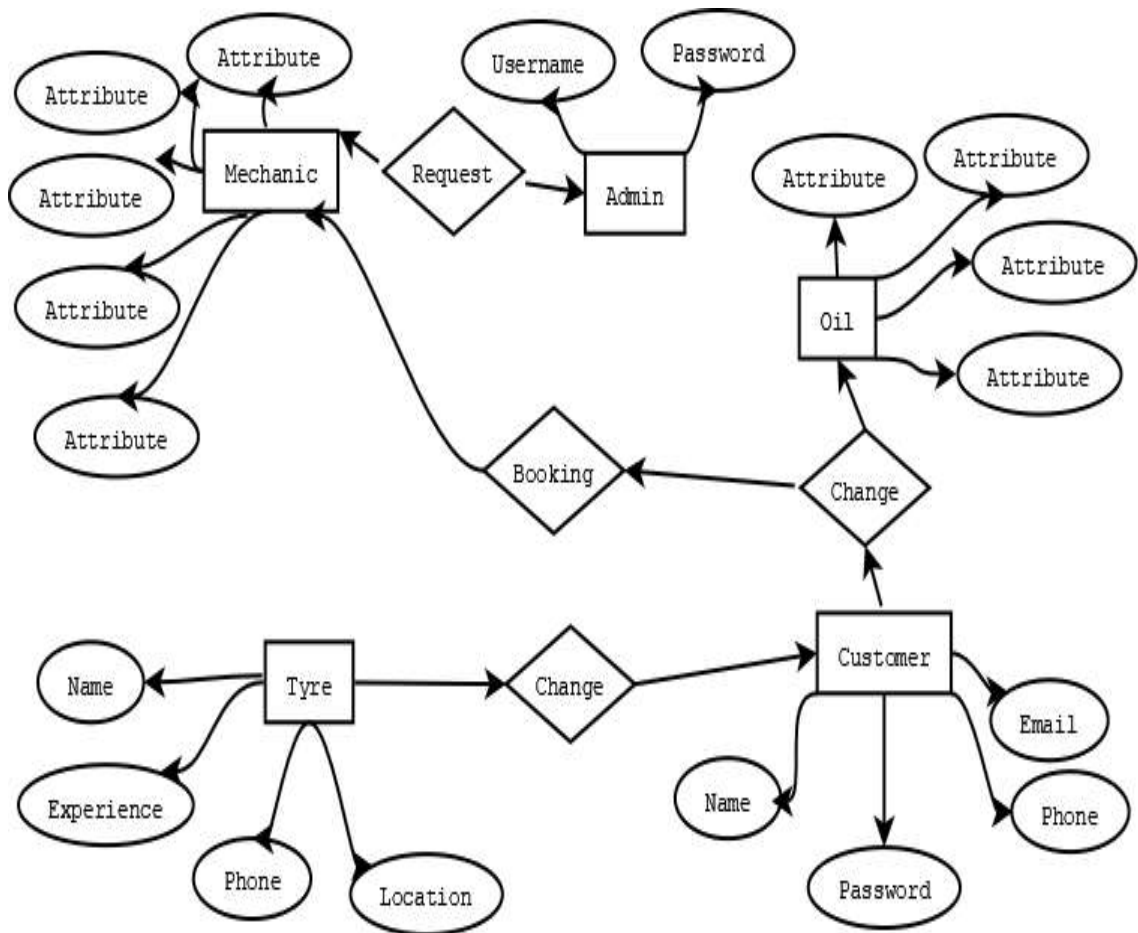


Figure 3-14:ERD diagram

CHAPTER 4

DATA AND EXPERIMENTS AND IMPLEMENTATION

4.1 Languages used for Implementation

Following languages are used for the implementation of this application.

4.1.1 HTML

Html is used in creating web page with Java script and cascading style sheet. It is basically used at displaying UI at websites.

4.1.2 CSS

CSS represents cascading style sheets CSS depicts how HTML products are used and style displayed on main UI.

4.1.3 PHP

It is used to manage dynamic content, databases, session and even build entire e-commerce sites. It is integrated with a number of popular databases, including MySQL and phpMyAdmin.

4.1.4 Java

Java can be used to create complete applications that can run on a single computer or be distributed across servers and clients in a network.

4.1.5 Platform

The platform that we used for the development of this mobile based application is following.

4.1.6 Android Studio

Android Studio provides a unified environment where you can build apps for Android phones, tablets.

4.2 Implementation

The front end will be displayed either you select provider and user, If the user is already a member of this application then he will simply log in and if the user is a non-existing member then the user will first sign up after that he will log in and the main page of the application will display. The main page of this application is the dashboard page which shows all mechanics, oil, tyre, and petrol companies in the recycler view. Bottom navigation show five fragment such as dashboard, add, contact, location, profile.

Add fragment are used for creating a profile for the service provider. Contact fragment are show system policy and provided admin email for contact when the user and provider want to update and delete the account. The users can get the current location address, altitude latitude value by clicking on the location fragment and the last one is profile which indicate personal information for users and service provider.

The admin panel can also have a log In page in form of a web and the main page admin can show and add service provider profile and logout button are also included in the main page of this web. Show button can also have sub-features such as delete and update the provider profile.

CHAPTER 5

RESULTS AND DISCUSSIONS OR USER MANUAL

5.1 Log In page

This Page Shows the Log In Section.

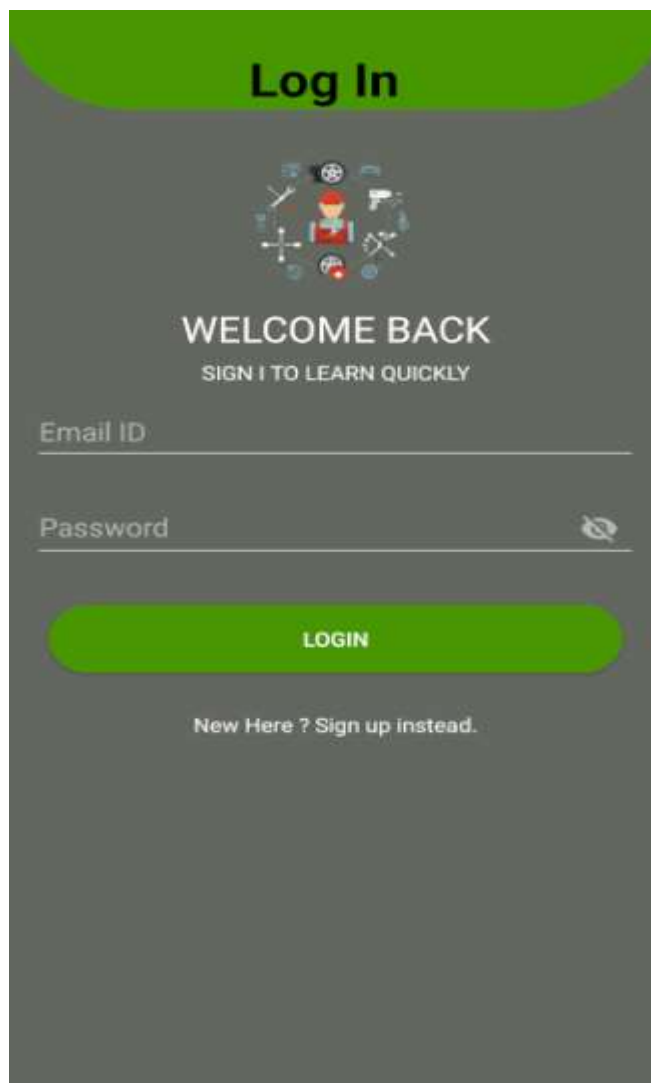
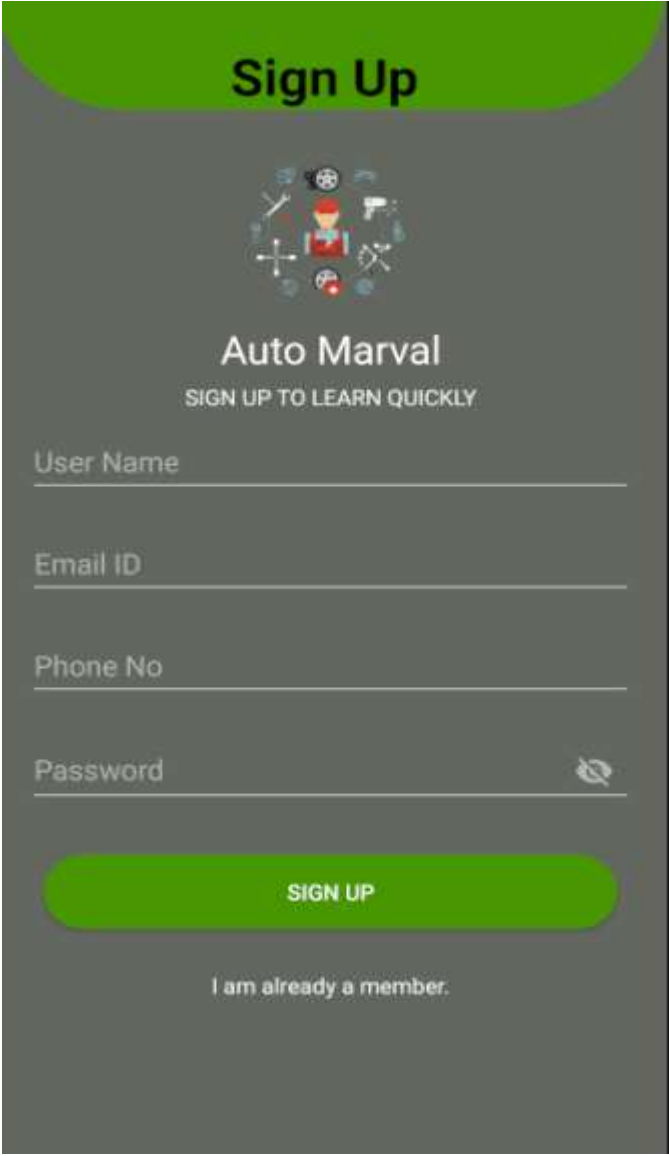


Figure 5-1:Login page

On the login page, the user and provider enter valid email id and correct password if both entities are not authentic by phpMyAdmin data then the login page can not proceed and if you not a member of this application then also login page is not proceed.

5.2 Sign up page

This Page Shows Sign Up Section.



Sign Up

Auto Marval
SIGN UP TO LEARN QUICKLY

User Name

Email ID

Phone No

Password

SIGN UP

[I am already a member.](#)

Figure 5-2:Sign up page

On the signup page, the user and provider enter a valid email id ,correct phone number according to Pakistan pattern, and enter a strong password and if you are already a member of this application then also signup page is not proceed and same type of number are not registered. Password length must be of eight characters.

5.3 Dashboard page

This page shows all types of services provided in this application



Figure 5-3:Dashboard page

The dashboard is the main page of this application and it shows all types of services provided in this application. The first one is mechanic which shows all types of mechanics such as painter, electrician, general and others services like petrol, oil, and tyre are also mentioned in this page.

5.4 Add services page

This page indicates which service are added to this application

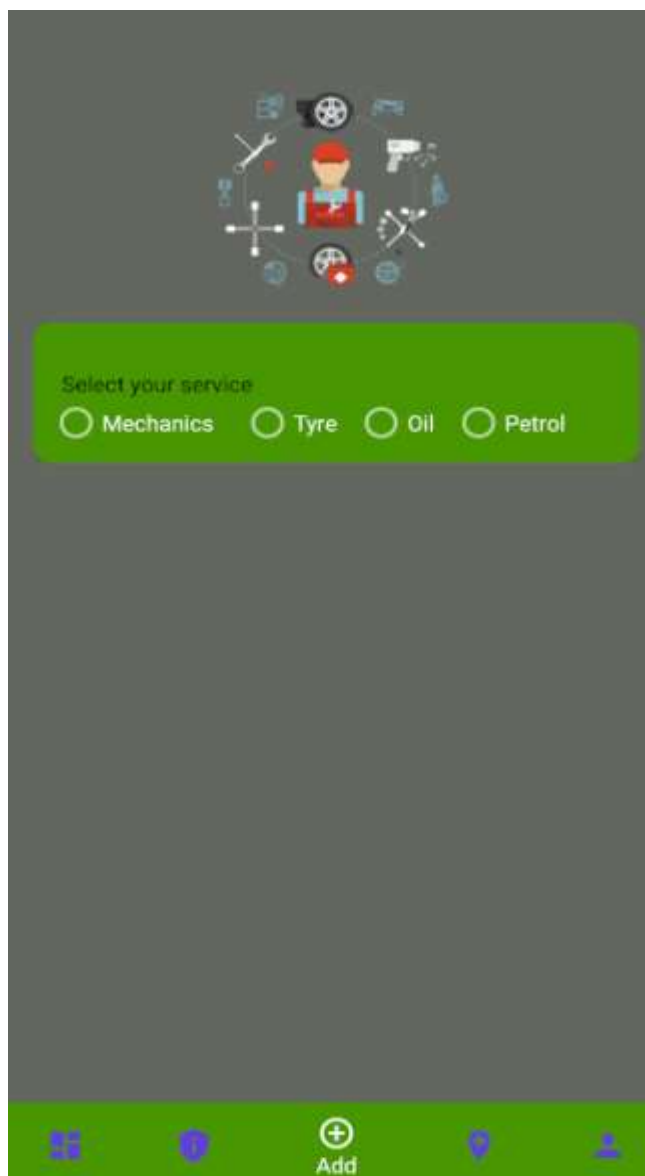


Figure 5-4: Add service page

This add service indicates which services are added to this application. The first one is mechanic which shows all types of mechanics such as danter, painter, electrician, general and others services like petrol, oil, and tyre are also mention in this page .If your click on the oil radio button then the oil company registration form appear in this application.

5.5 Location page

This page can get the current location , altitude and latitude value

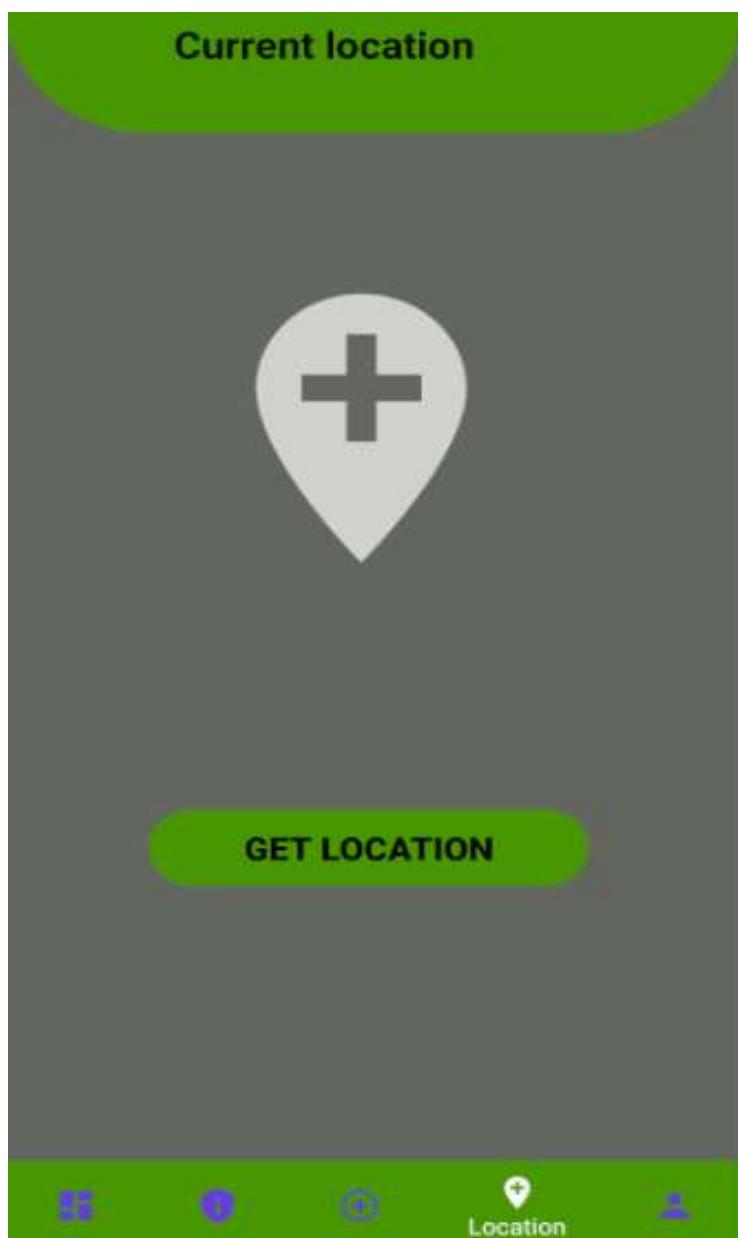


Figure 5-5:Location page

This location can get the current location, altitude, and latitude value by just clicking the Get Location button and also can get the current actual and correct full address of that place.

5.6 Contact page

This page can show the privacy policy of this application

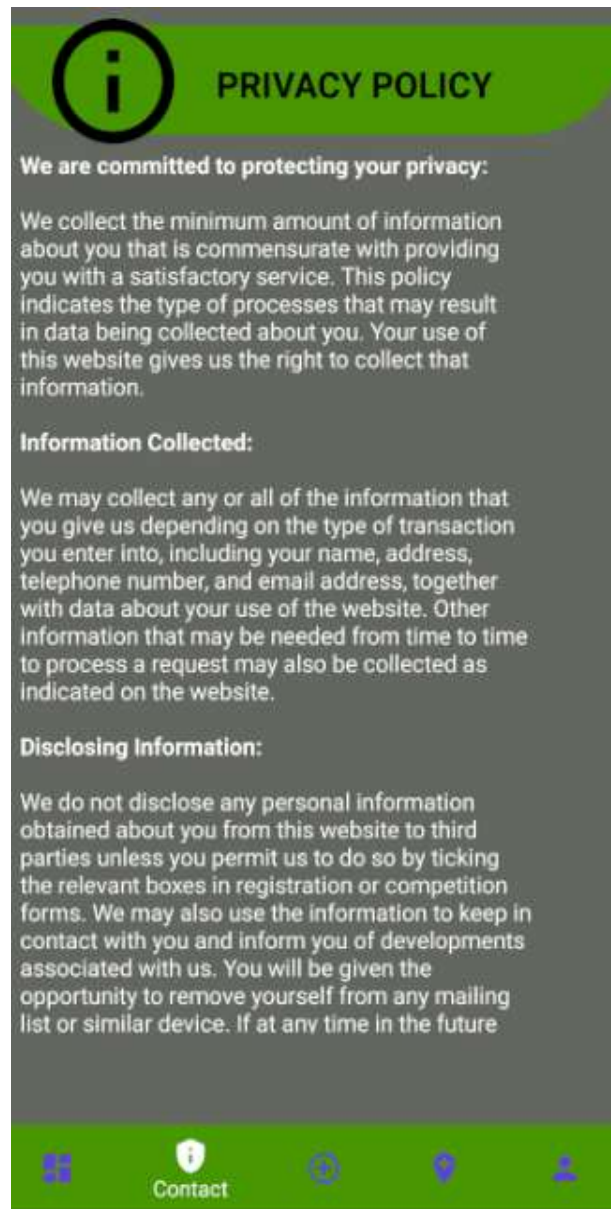


Figure 5-6:Contact page

The contact page can show the privacy policy of this application. Contact fragment are show system policy and provided admin email for contact. When the user and provider want to update and delete the account.

5.7 Profile page

This page can show the profile of the users

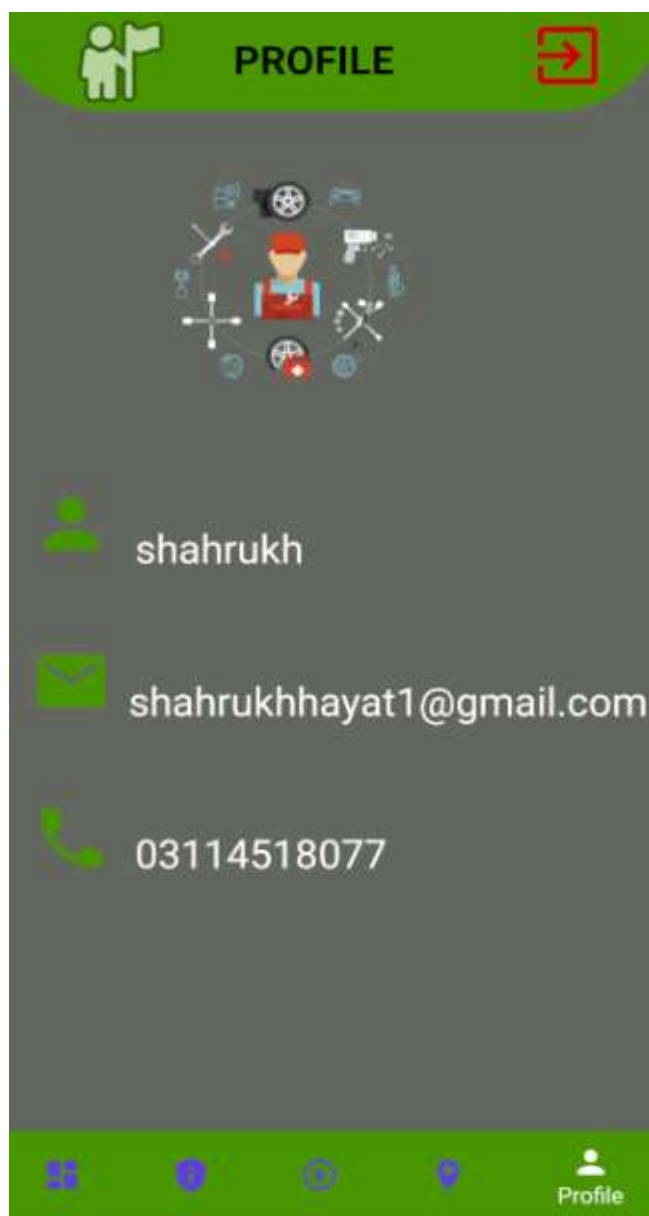


Figure 5-7:Profile page

The profile page can show the profile of the users or service provider which indicates personal information for users and service provider and logout are also mention in the top header of this application and the personal information include email id, user name, and phone number are mention.

5.8 Show mechanics page

This page shows all types of mechanics provided in this application

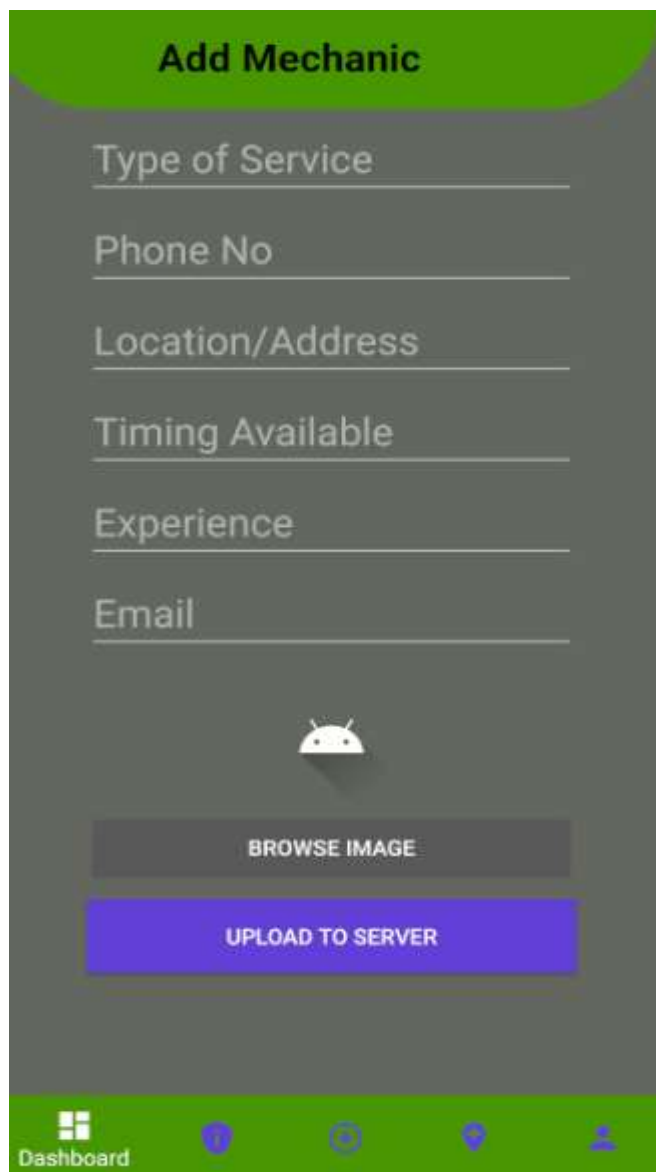


Figure 5-8:Show Mechanic

Show mechanic page can show all types of mechanics provided in this application such as danter, painter, electrician, mechanical and general. Mechanic information includes picture ,type of mechanic and address, and status rating.

5.9 Add mechanic page

This page show information which required to add service provide profile



The screenshot displays the 'Add Mechanic' form with the following elements:

- Header:** A green bar with the text 'Add Mechanic' in white.
- Input Fields:** Six text input fields with labels: 'Type of Service', 'Phone No', 'Location/Address', 'Timing Available', 'Experience', and 'Email'.
- Image Selection:** A small white Android robot icon above a grey button labeled 'BROWSE IMAGE'.
- Submission:** A purple button labeled 'UPLOAD TO SERVER'.
- Navigation Bar:** A green bar at the bottom with five icons: a grid icon (labeled 'Dashboard'), a shield icon, a circular arrow icon, a location pin icon, and a person icon.

Figure 5-9:Add Mechanic page

Add mechanic page show after click on the mechanic radio button then this page appears and it shows the mechanic registration form. In this form picture and phone number must be required.

5.10 Detail mechanic page

This page show detail information which of selected service provide profile

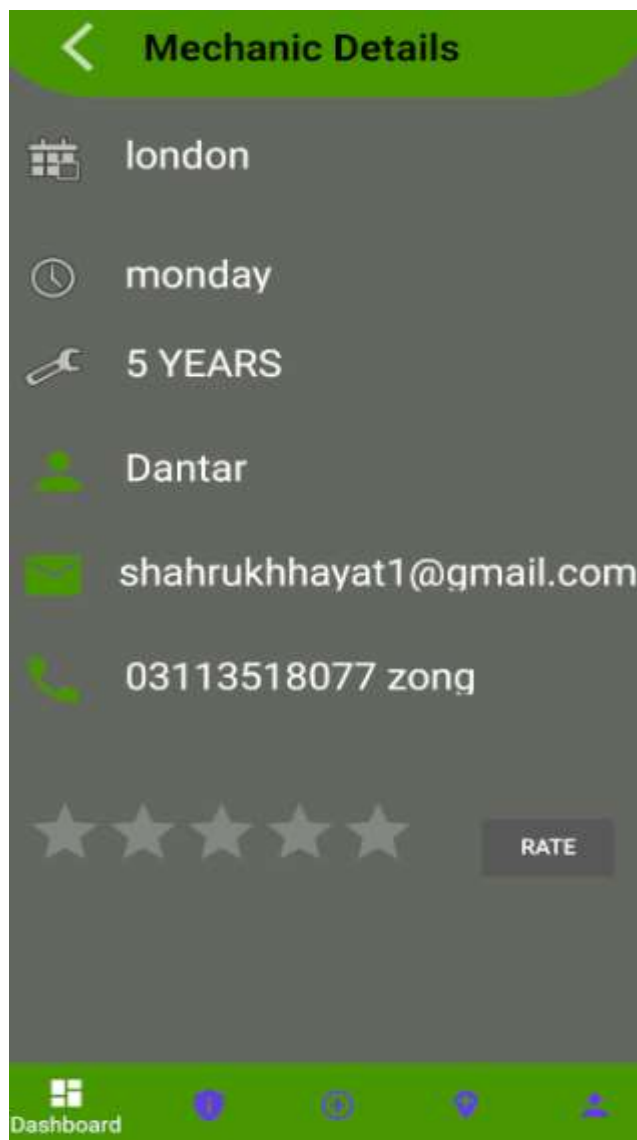


Figure 5-10:Detail Mechanic page

The detailed mechanic page shows detailed information which of selected service provider. This detail page appears after the selection of mechanic profile .User can also rate the service provider work and click on the phone number automatically dial the number of the service provider.

5.11 Admin login page



Auto Marvel

Admin Login

Username:

Password:

Figure 5-11:Admin login page

On the login page, the admin enter valid email id and correct password if both entities are not authentic by phpMyAdmin data then the login page can not proceed.

5.12 Admin panel main page

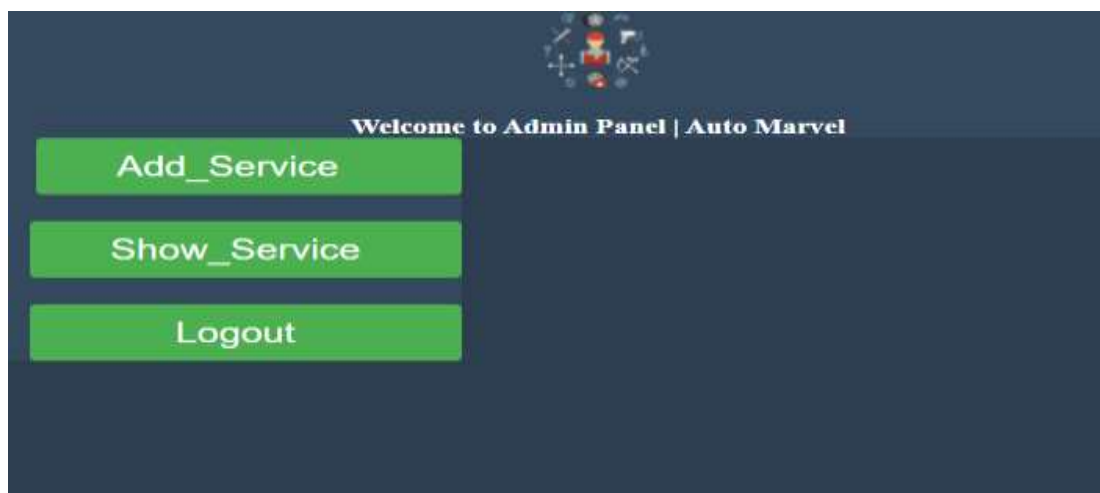


Figure 5-12:Admin main page

The main page of the admin panel and its shows and add all types of services provided in this application and logout button are also mention.

5.13 Add services page



Figure 5-13: Add service page

This add service indicates which services are added to this application. The first one is mechanic which shows all types of mechanics such as danter, painter, electrician, general and others services like petrol, oil, and tyre are also mention in this page.

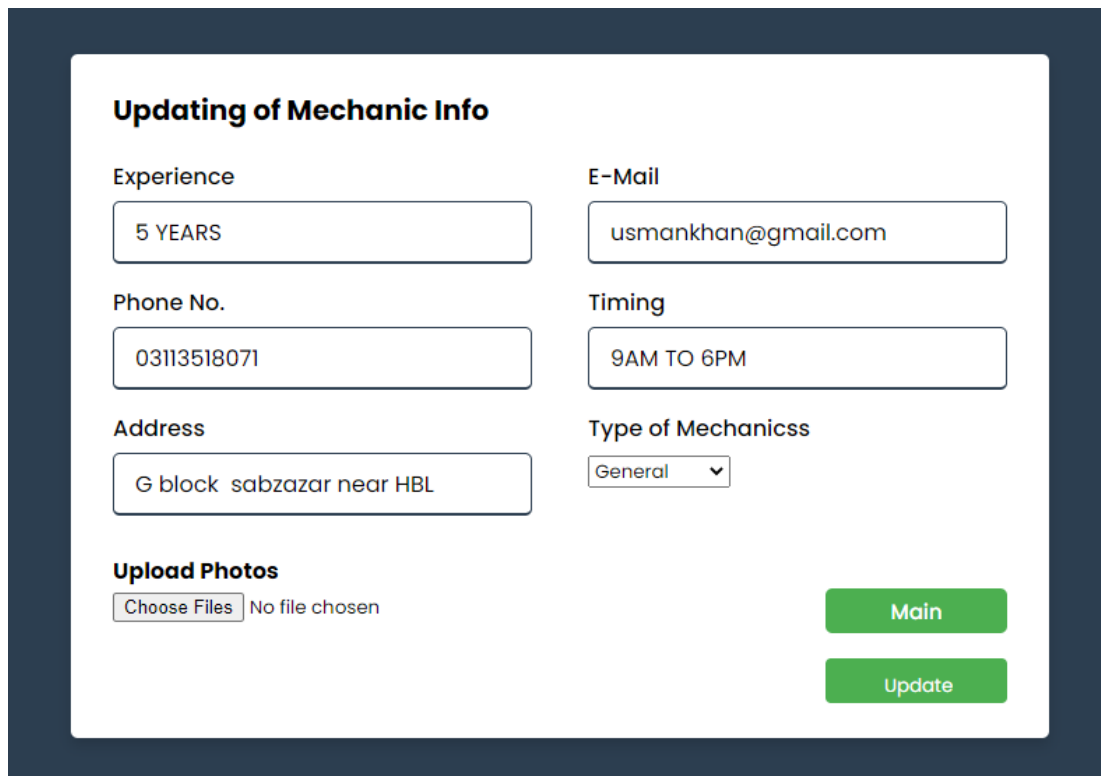
5.14 Show services page

Sr	ID	Name	Experience	E-Mail	Phone No.	Available_Timing	Address	Pics	Update/Delete
1	72	Mechanical	5 YEARS	usmanikhan@gmail.com	0313518071	9AM TO 6PM	D block sabazar near HBL		
2	74	Dantar	5 YEARS	umer1@gmail.com	03414088551	10 am to 7 pm	muslim town near cinapax		
3	75	General	5 YEARS	hamzakhani@gmail.com	0314518022	8 am to 10 pm	new muslim town		
4	76	Painter	10 YEARS	saadaslami@gmail.com	0314518011	7 am to 5 pm	johar town new palazzo		
5	77	Electrician	10 year	tahirusmani@gmail.com	03414088114	12 am to 10 pm	DHA phase 5		

Figure 5-14: Show Service page

Show mechanic page can show all types of mechanics provided in this application such as danter, painter, electrician, mechanical and general. Mechanic information includes picture, type of mechanic, address, email, phone number, and experience or update and delete feature are also mentioned on this page.

5.15 Service registration page



The screenshot displays a web form titled "Updating of Mechanic Info". The form is organized into two columns. The left column contains fields for "Experience" (5 YEARS), "Phone No." (03113518071), and "Address" (G block sabzazar near HBL). The right column contains fields for "E-Mail" (usmankhan@gmail.com), "Timing" (9AM TO 6PM), and "Type of Mechanicss" (General). Below the form fields is an "Upload Photos" section with a "Choose Files" button and the text "No file chosen". At the bottom right of the form are two green buttons: "Main" and "Update".

Figure 5-15:Service Registration Page

Add mechanic page show after a click on the add mechanic button then this page appears and it shows the mechanic registration form. In this form picture and phone number must be required.

CHAPTER 6

CONCLUSION AND RECOMMENDATIONS

6.1 Conclusion

Car breakdown is really a big issue that needs to be detected on time. My project work as a provided quick mechanic for the car in emerging situations. We developed an android application where users can search all types of a mechanic and other car services. This android-based application will be very useful for the car owner and all types of mechanics because it saves time and can provide quick services in emerging situations. This application will be the registered particular mechanic through the trustworthy.

6.2 Recommendation

My project is android-based application and user which can be either car owner, mechanics or anyone else have to upload the services. This application will be the registered particular mechanic through the trustworthy, but in future we will work on separate car parts services so, the mechanic will be acknowledged properly regarding their uploaded services. In future we will also add reset password option in our project that will help users to reset their password.

REFERENCES

- [1] A. Rahman, "ONLINE CAR MECHANIC SHOP SYSTEM," Abdul Rahman, new york, 2020