

# WEB BASED VEHICLE BREAKDOWN ASSISTANT SYSTEM

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## ABSTRACT

A lot of individuals face difficulties obtaining facilitate once their automotive breaks down on the road. several of them don't have any automotive Repair Service suppliers' contact range and might not get facilitate because the automotive Repair Service Providers may be distant from their locations. These issues are the motivations for the event of this project to assist those that are in would like once their automotive breaks down on the roads. This project can begin with the analysis of the automotive breakdown incidents on the road. It expects that through some analysis, the statistics of automotive breakdowns is obtained to envision if this project is useful to those in would like.

"VBA" is Associate in Nursing automaton application for On- Road Vehicle Breakdown help that may search a mechanic basis of the user's location. On-road vehicle breakdown help is intended for the user to urge fast service at the event on any vehicle breakdown.

Many automaton users will access this application. This application can to cut back losing person time for located a accurate mechanic. automaton application shows the user locating and direct the closest service supplier to user. there's a conversation platform to talk with others. in this chat platform user will raise queries and alternative user and mechanic and that they will reply for that relevant question.

User will rate the answers in listing Users will look for a mechanic supported user location. once the user looking mechanic application can show mechanic by his specialty, contact details, image, and rating. when job completed user will rate and provides feedback to the relevant mechanic. User requests enclosed user location, needed service kind, vehicle details, and outline. Admin will read all registered user and mechanic details.

## INTRODUCTION

When it involves automobile breakdown, it may mean over simply the automobile's technical defects because it may lead to injuries and fatalities as a result of obtaining out of the car to see for breakdowns are often terribly dangerous particularly on a road as individuals are driving in no time. supported Federal road Administration statistics (United States), there are just about four,000 fatalities and nearly sixty,000 injuries from edge crashes. during this event, it's best to hunt for the professional's facilitate that is that the automobile Repair Service

suppliers as they're a lot of knowledgeable and for private safety on the road likewise. Contacting the automobile Repair Service suppliers is that the main concern at this time because the public has restricted data to the suppliers.

Today most of individuals use their own vehicle for travel. whereas traveling most of drivers are face to hassle as vehicle breakdown on the road. Vehicle breakdown cause to waste the user valuable time. that's a worst expertise they need to face. moreover, because it causes to induce tired for the journey. once the vehicle breakdown on the road, the motive force has got to look for mechanic and have to be compelled to see a spare-part retailer concerning their location. At that point if driver unable to go looking a decent mechanic they need to elicit facilitate somebody, however which will be not sensible technological facilitate for driver.

But if driver have golem phone and exploitation this vehicle breakdown help, user will realize appropriate mechanic among the couple of minutes. the foremost advantage of that's user will realize a mechanic basis on user location. If user would like vehicle spear-part look, there are the ability searches any retailers. If user have a technical downside associated with vehicle, they'll raise it via chat.

The proposed application helps to find mechanics easily and quickly since it is difficult to find mechanics nearby area wherever you are travelling. This system helps to overcome this issue by providing mechanic details in one click. Here the locator allows you to search mechanics from different locations. This online mechanic locator reduces work and can easily find the mechanics from various location. The proposed application reduces your time and cost. The main objective is to provide a better service and to make the process easily. The key feature of this app is that it's simple and user-friendly UI. No matter where you are, our app will grab your accurate location with just one click and would help you to locate nearest service providers as per your problem.

## PROBLEM STATEMENT

During festal seasons, automotive breakdown cases increase additional because the long journeys place vehicles additional in danger of breaking down. within the case of breakdown on State Route and Route in city, it will be tough to induce facilitate as a result of if the driving force isn't conversant in that place. once it involves breakdown in rural areas, it can be worse because the purpose of breakdown is isolated from automotive Repair Service suppliers.

Another drawback is that the rise of wrecker scam wherever a wrecker seems at the scene out of obscurity, providing tow service. once towing away, the vehicle, the gouger can demand an oversized quantity of cash from the victim to induce back the automotive. There are several cases wherever the tow truck operators themselves built the accidents, through the utilization of oil or nails on a targeted stretch of road. of these happen on the road as the drivers can get afraid once cars break down and that they don't have any plan WHO to hunt for facilitate.

The scammers make the most of this and create their service appearance convenient, however it's truly a scam. From the on top of issues, it is vital that more investigations ought to be created to unravel this drawback two-faced by the general public. There should be a resolution to this drawback, not simply to decrease the wrecker scam incidents, however to assist the general public to contact a trustworthy service operator to assist them in such things too. As a driver on the road, automotive breakdown will happen at any time and it is out of the driver's management at some purpose. once a driver was caught in such state of affairs, one undoubtedly doesn't need to be stranded on the road for too long seeking facilitate with none clues, particularly in unfamiliar places.

## PROPOSED SOLUTION

At this purpose, the automotive Breakdown Service Station locator System are going to be developed on humanoid platform thanks to the time constraint and loads of analysis have to be compelled to be done to develop the system. Development of this technique on different platforms like IOS and windows can be thought-about in the future if sensible feedbacks area unit being received from the users.

The system can use the driver's current location to verify the nearest service supplier offered and show a listing of service supplier near for the motive force to settle on. so as to perform the search of nearest service supplier, Google Places API for mobile are going to be wont to connect folks to places of interest with the ability of location awareness on humanoid. As for the price of service, the value charged by every service supplier is not possible to be displayed because the root reason behind automotive breakdown should be determined before the price may be calculated. The scope of this technique can concentrate on looking the closest service supplier for the drivers, providing facilitate to folks World Health Organization do not possess any mechanic's variety in hand. The business deal is between the service supplier and also the driver that is out of the system's management.

## AIM & OBJECTIVES

- To develop a platform which improves the efficiency of the driver and the mechanic.
- To identify the reason and cause for vehicle breakdown.
- To build a common platform which connects the driver and the mechanic.

## DESCRIPTION ABOUT ARTIFACTS

The user work in to the App when User Registration. Then User current location track by GPS. Then user location goes to sound unit and match with the mechanic United Nations

agency registered with the App. there's shown mechanic that nearest to user location. there's facility that user will search component retailer's basis on the user location. there's admin to feature a mechanic to the appliance. Admin will read user and mechanic detail.

## METHODOLOGY

While developing the automaton Application there are a unit demand gathering as a primary information and secondary information. As a primary step of the project there are a unit got to search if there are a unit any poor of projected system for society and therefore the accessibility of the system. As a grouping primary information there's a Google survey type launched by the investigator as a marketing research for the “help ME” automaton Application.

Secondary information grouping means that data that somebody aforementioned or done. As a grouping secondary information, the investigator went to check-up regarding the similar system through the web. Google scholar, IEEE, websites and therefore the journals at the web. Search regarding the similar system and compare one another. That conclusion and knowledge regarding similar project area unit describe through the Second Chapter Literature Review.

As a developing methodology for this automaton application the investigator used the epitome Methodology. epitome is development methodology that do build, take a look at and reworked it till the fulfill the expectation of the project. once exploitation epitome methodology, developer will get associate early feedback from user and if there are unit add new options, that may be added. If users would like the other special functions investigator is adding and take a look at the project due to the epitome Methodology. There area unit describe the feedback of users in analysis Chapter.

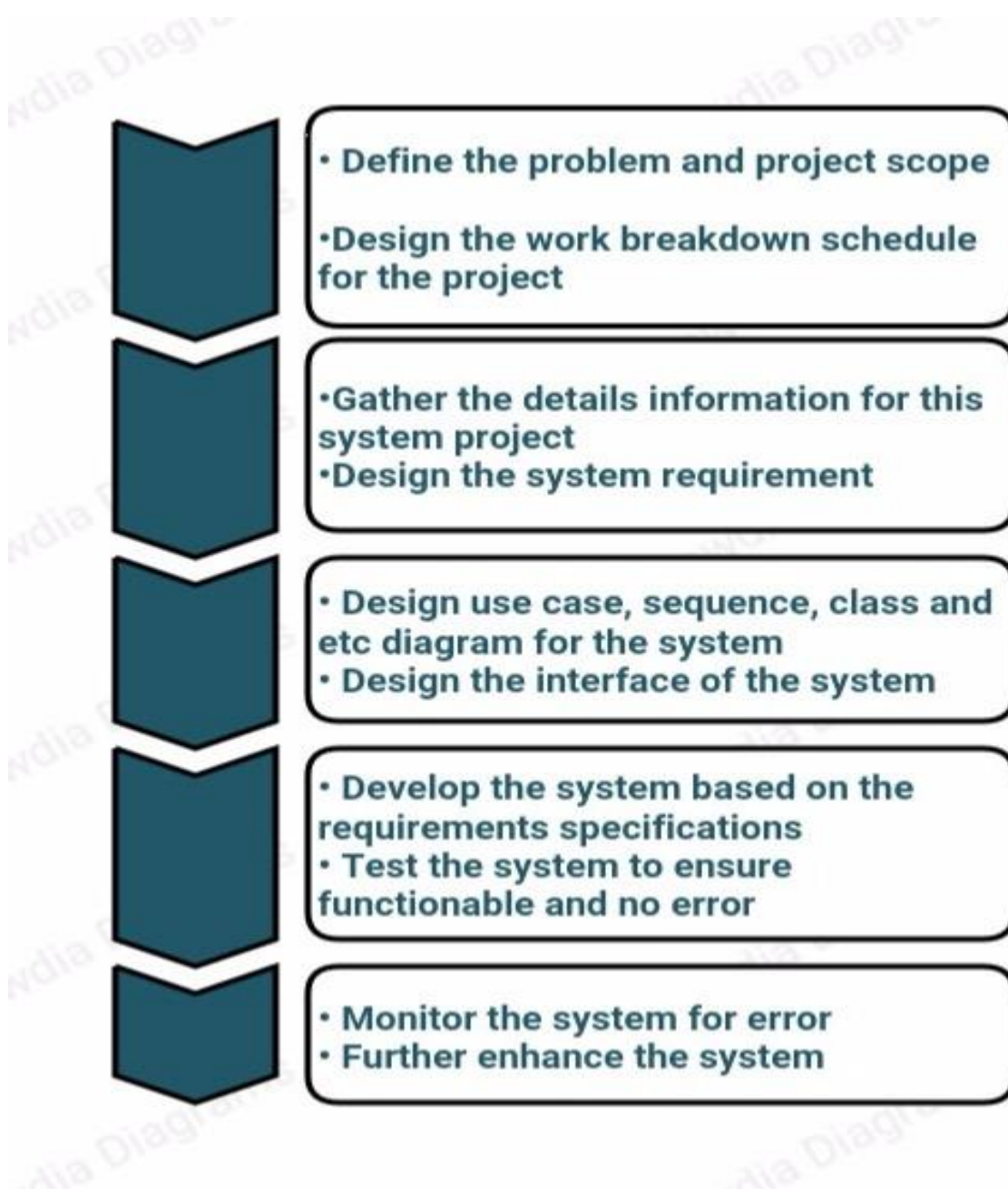


Fig. Waterfall Methodology.

## REQUIRMENT GATHERING

Beginning of the app there ought to gather the wants for the automaton app. 1st of all, there ought to search area unit there needing of that sort of app for the society. There for the research worker launch the Google kind survey. As a result of that there are unit most of individuals UN agency participate for the survey area unit used automaton phone.

The survey included questions like

1. If you unexpectedly needed a roadside help tomorrow, would you like to get a mechanic?

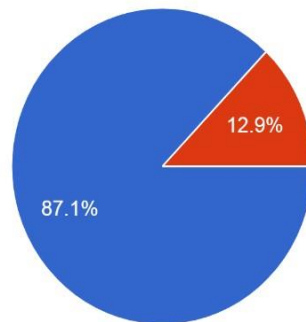


Fig. People who would like to get help.

2. Do you ever feel the need of roadside assistance?

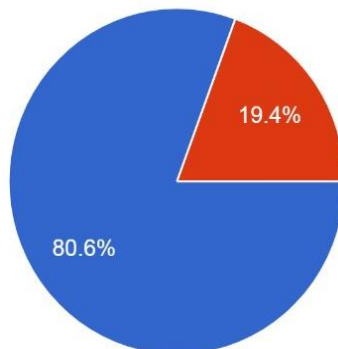


Fig. Need of Vehicle Breakdown Assistance.

3. Do you think on-road Vehicle Breakdown Assistance will be beneficial?

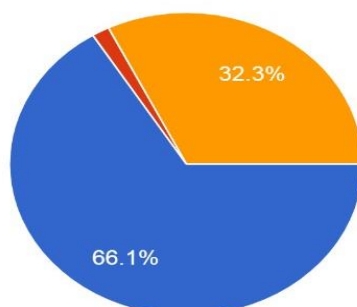
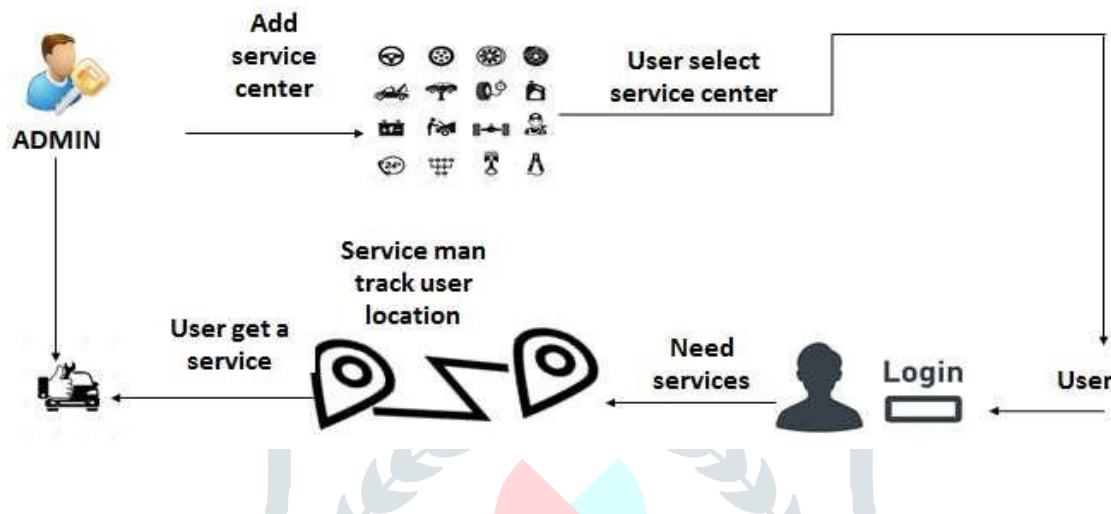


Fig. Market Research

# DESIGN

When style (the planning/ the look) the project there ought to create a design the project flow. Therefor there are style the subject style and UML diagram for that. that's facilitate to form get plan however ought to implement the app as user expectation. This is often additionally facilitating to develop the project and may be get a plan the way to internal development ought to done.



In this design diagram shows that however information flow inside the system. User search the data; then mobile network tower sends the user location. There map sdk to notice the user location. That location information connects with the base information and check the mechanic round the user location. That information sends back to user. there's a admin to feature the mechanic and see the user detail UN agency registered with the mechanical man app.

User case diagram show the connection that however user and alternative user react with one another through the system. it's the only thanks to represent the user interaction with the system. User case diagram show the connection that however user and alternative user react with one another through the system. it's the only thanks to represent the user interaction with the system.

Based on this the system will consist of three modules;

1. ADMIN MODULE
2. USER MODULE
3. BUSINESS OWNER MODULE

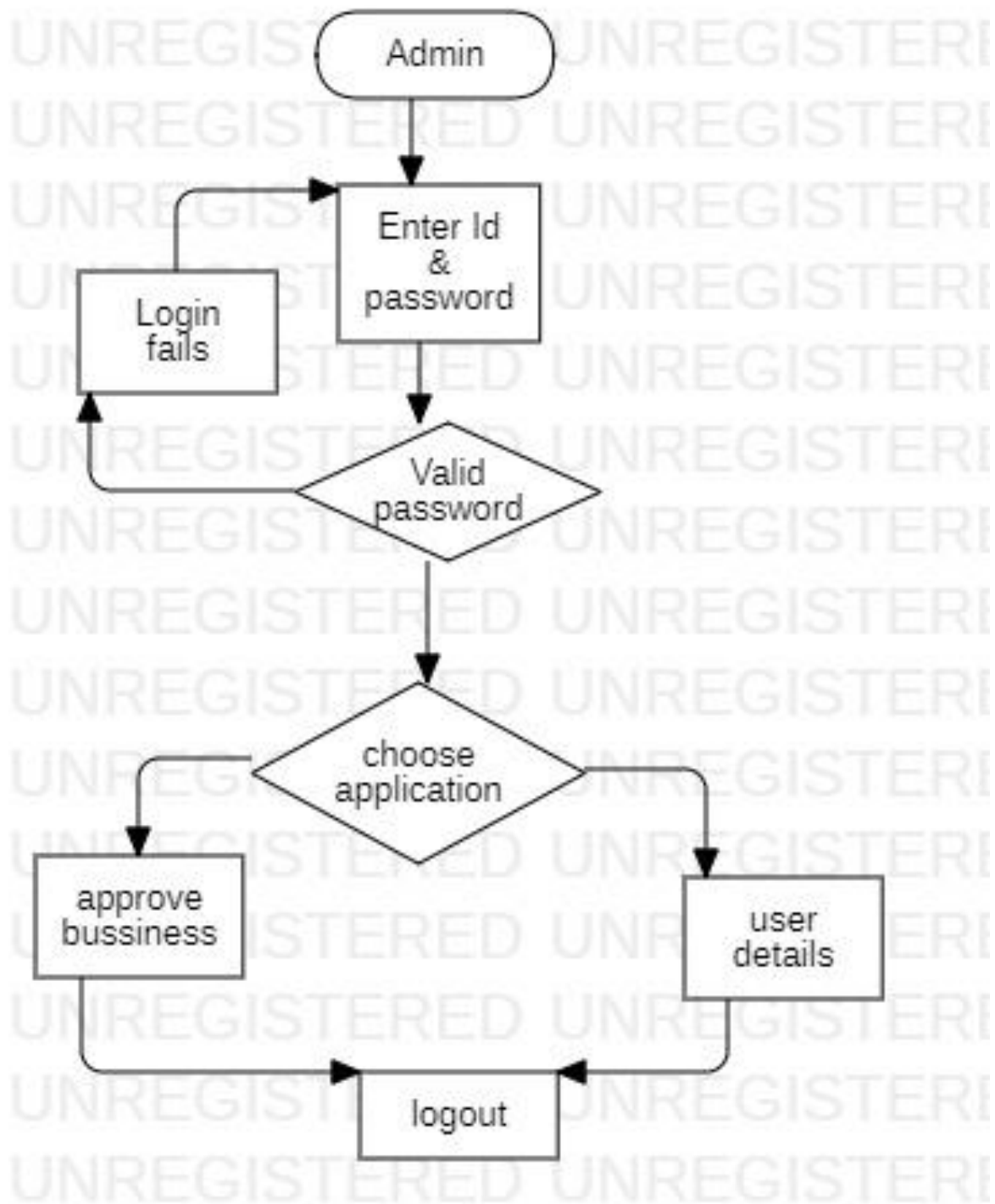


Fig. Admin Module.

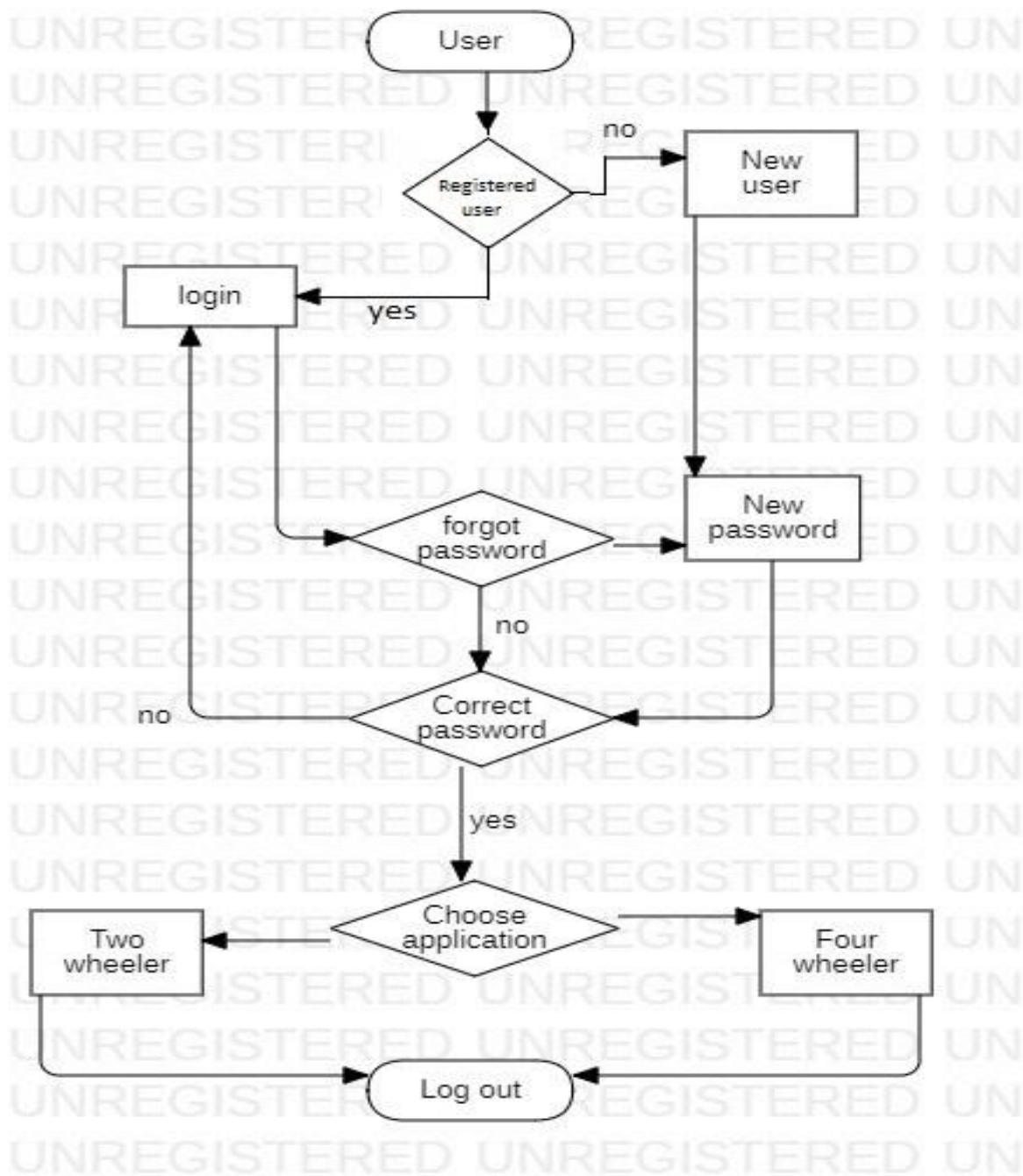


Fig. User Module.

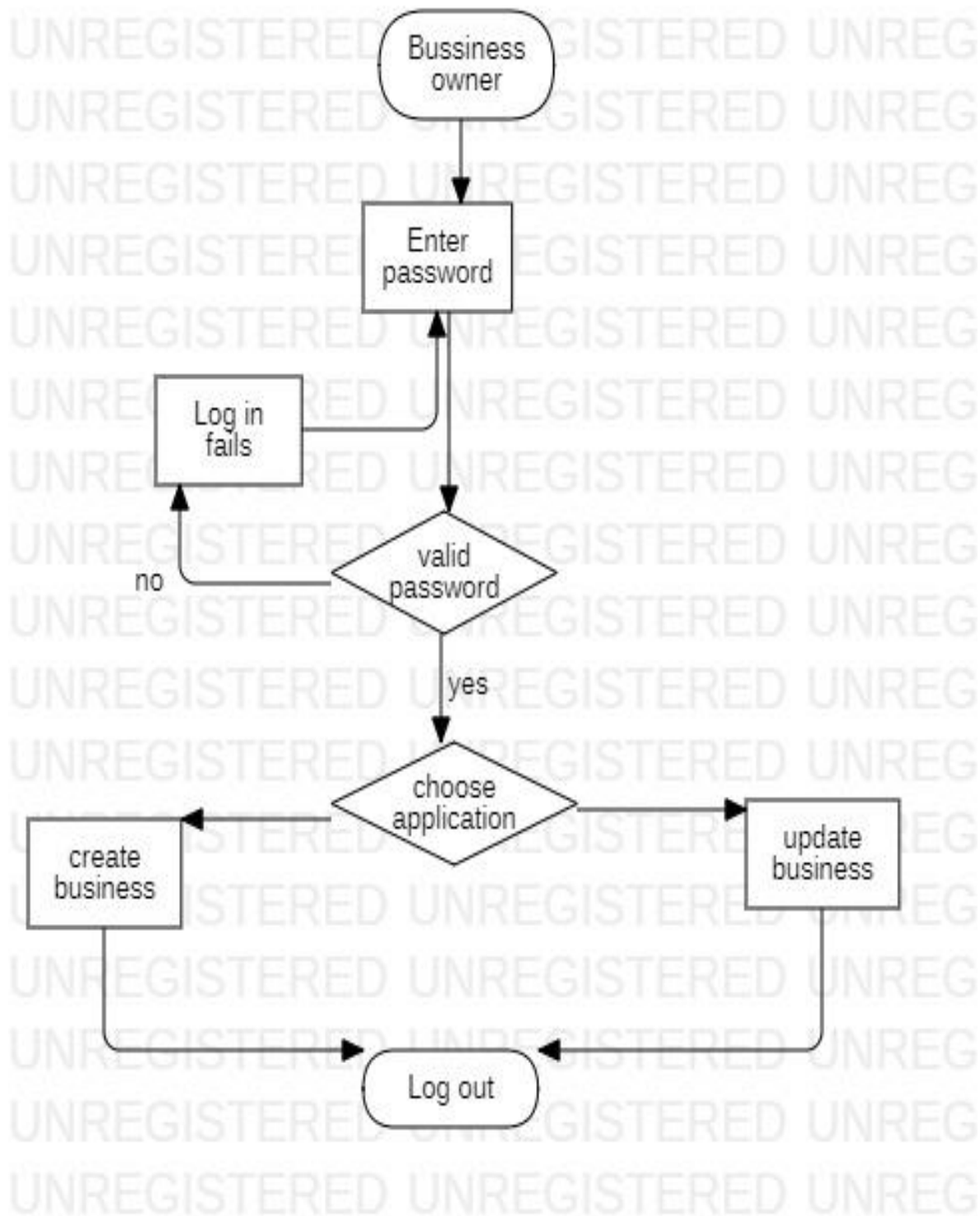


Fig. Business Owner Module.

# DEVELOPED APPLICATION



Fig. Main Menu.

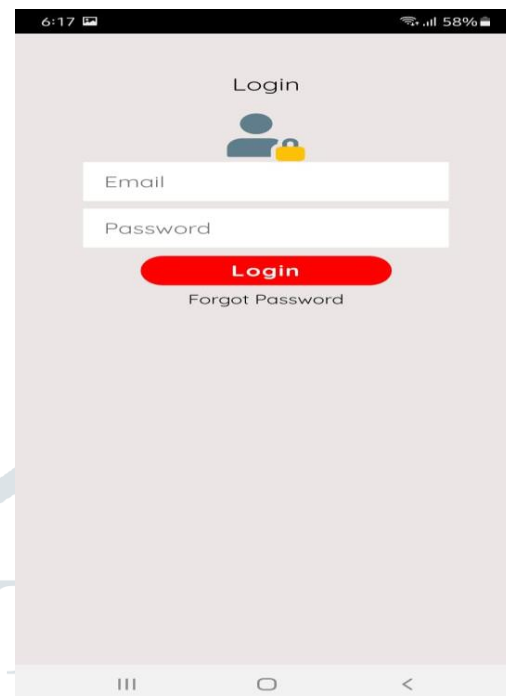


Fig. User Login Window.

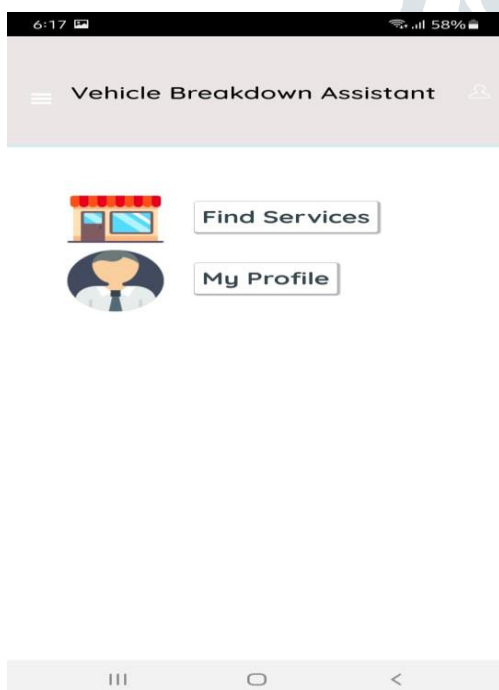


Fig. User Profile Options.

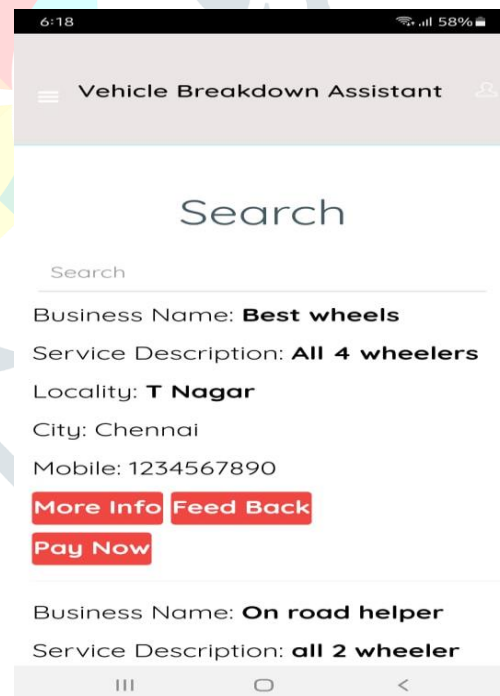


Fig. List of Service Providers.

6:18 58%

Vehicle Breakdown Assistant

Search

**Business Name: Best wheels**

**Name: arun**

Service Description: All 4 wheelers

Available: Mon-Fri

Address: Chennai

City: Chennai

Locality: T Nagar

Mobile: 1234567890

Lat : 13.090256596795953

Long: 80.28179055881355

Show Map

Fig. Details of Service Provider.

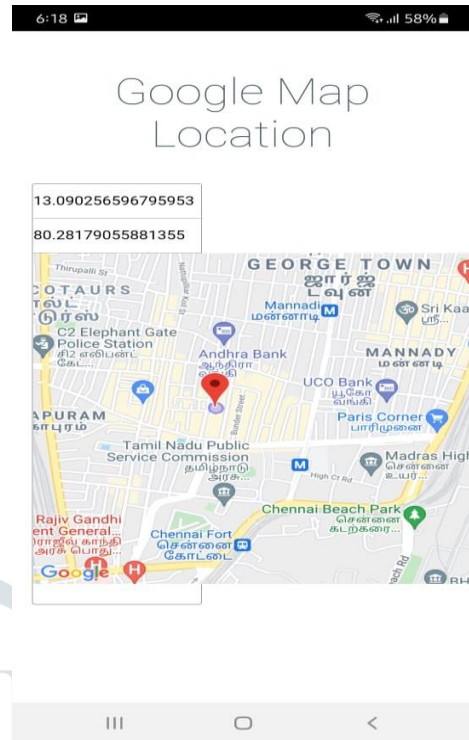


Fig. Geolocation of Service Provider.

6:19 58%

Vehicle Breakdown Assistant

Update User Contact Details

user@gmail.com

test

Test1

1234567890

Update

Fig. Update User Details.

6:19 57%

Vehicle Breakdown Assistant

Register

Name

Email

Password

Mobile

Address 1

Address 2

Forgot Password Question & Answer

What is your pet animal name?

Answer 1

What is your school best friend name?

Answer 2

Register

Fig. User Registration Window.

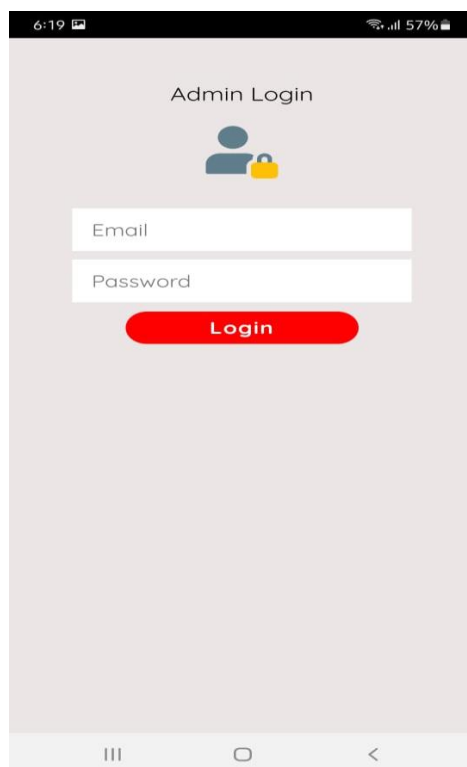


Fig. Admin Login Window.

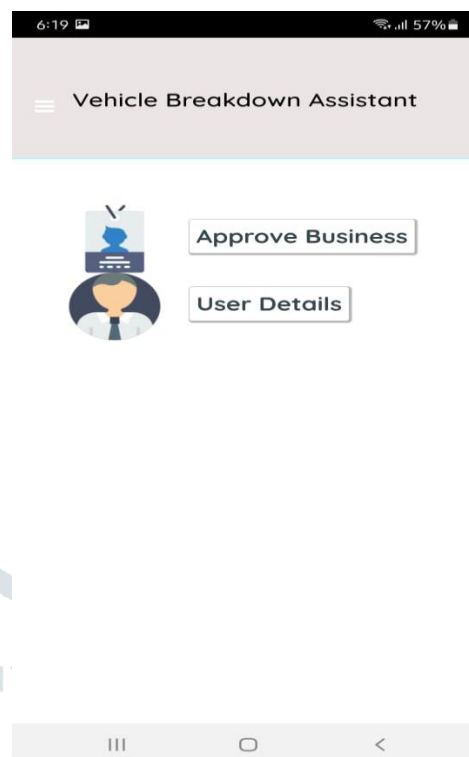


Fig. Admin Profile Options.

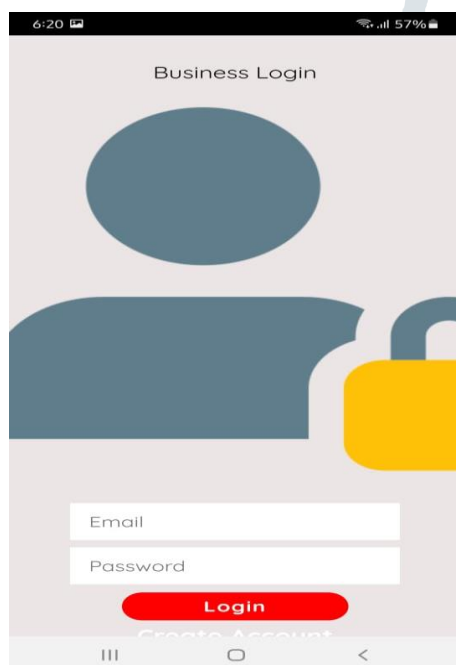


Fig. Business Owner Login Window.

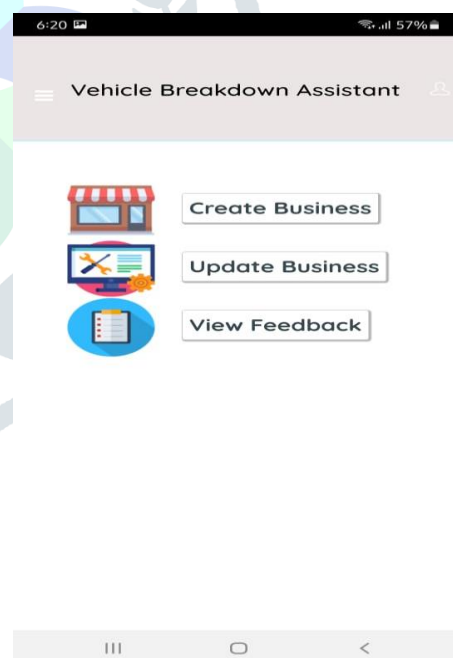


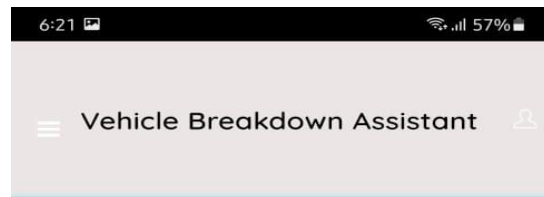
Fig. Business Owner Profile Options.



Add Business

Business Name
Mechanic Name
Services
Available
Address
City
Locality
Mobile
<b>Submit</b>

Fig. Business Details.



Business Owner Register

Name
Email
Password
Mobile
City
Address/Landmark
Aadhar No/voter ID/License
<b>Register</b>

Fig. Business Owner Registration Window.

## CONCLUSION

In conclusion, the issues moon-faced by the drivers aren't alone automotive breaking down. Vehicle breakdown can cause frustration to the motive force, the frustration can then cause the driver to form unhealthy selections and being scammed by the tow truck scammers. Another drawback is obtaining facilitate from workshops or mechanics. One who doesn't possess any workshop's variety will solely have faith in the assistance of an automotive passing by and risk being scammed. Supported of these connected issues, it's important to begin with an answer that will solve these issues.

The development of this Vehicle Breakdown Service Station Surveyor System conjointly aims to beat the issues of a number of the prevailing applications within the market. With open supply resources, the event value of this Vehicle Breakdown station surveyor System is being unbroken to a minimum which is why it's capable of providing help to the user with freed from charge on the appliance transfer. the event of this application conjointly fits

the aim of education studies and meets the demand as declared in early stages and after all providing facilitate to people that are in want.

Both the public and the CRSP can benefit from the development of this Vehicle Breakdown Service Station Locator System and reduce the scam rates of tow truck scammers who always take the advantage of public difficulties.

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