CHAPTER 1

INTRODUCTION

In today's fast-paced world, vehicle breakdowns can significantly disrupt daily schedules and create inconveniences for motorists. Recognizing this challenge, the Integrated Automotive Maintenance and Operations Platform is introduced as an innovative solution to address the diverse needs of drivers during such critical situations. This Android application platform offers efficient and timely assistance to users facing automotive breakdowns. Its primary objective is to provide comprehensive support tailored to individual requirements, ensuring a hassle-free experience for drivers in distress. From dispatching qualified drivers to resolving emergency fuel issues and locating nearby repair workshops, this project leverages mobile technology and real-time data processing to deliver prompt and effective solutions. With a focus on user satisfaction and a commitment to resolving various breakdown scenarios, the Integrated Automotive Maintenance and Operations Platform aims to redefine automotive assistance, offering peace of mind to drivers when they need it most. Through continuous innovation and a user-centric approach, this platform strives to set new standards in automotive maintenance and operation, enhancing the overall driving experience and ensuring safe and reliable journey.

1.1 PROBLEM DEFINITION

- Finding reliable mechanics is difficult due to a lack of a centralized platform for connecting users with verified mechanics.
- Traditional booking methods can be time-consuming and cumbersome, especially during emergencies.
- Regular maintenance is often neglected due to busy lifestyles and lack of awareness, leading to preventable breakdowns and costly repairs.
- Unexpected fuel runs can occur due to miscalculation, oversight, or unforeseen circumstances, especially in remote areas or when no nearby petrol stations are available.

CHAPTER 2

LITERATURE REVIEW

In John Aiyesehinde's [1] 2019 paper, research highlights the importance of after-sales services in the Nigerian automotive industry. It highlights that service quality is a strategic imperative, as it not only enhances operational productivity but also strengthens brand reputation and market positioning. This pursuit of service quality also permeates organisational structures and operational frameworks, requiring companies to overhaul internal processes to deliver exceptional after-sales support. A focus on operational productivity ensures streamlined processes, minimised downtime, and optimised resource utilisation, key to sustained profitability and growth. Aiyesehinde's paper calls for automotive stakeholders in Nigeria to recalibrate their strategic compasses and prioritise service quality, enabling them to forge enduring customer bonds, navigate market uncertainties confidently, and establish a niche in the Nigerian automotive industry.

In 2022, Syahrul Nizam Samsudin [2] will have developed a big data analytics tool for automotive service advisors, marking a significant advancement in customer service within the automotive industry. The tool uses vast amounts of data from online surveys to provide a comprehensive understanding of customer needs and preferences, enabling advisors to tailor their service delivery strategies to better align with customer expectations. The tool's efficacy lies in its ability to discern patterns and trends within the data, revealing valuable insights that might otherwise remain obscure. Samsudin's tool also adopts a holistic approach to service excellence, focusing on both customer satisfaction and the service advisor experience. This approach encourages automotive service centres to adapt to evolving consumer preferences and market dynamics, ensuring long-term competitiveness and sustainability.

Teodor-Constantin Nichiţelea[3] has developed an application for automotive Ethernet applications using scalable service-oriented middleware over IP. This application offers a flexible and efficient solution for integrating multiple functionalities within a vehicle's electronic and electrical (E/E) architecture. The application highlights the growing importance of Ethernet technology in modern automotive systems, which supports high-speed data transmission. It incorporates two distinct functionalities: angular position control and interior light control, demonstrating the versatility and adaptability of Ethernet-based solutions in the automotive domain. The application is designed to operate within an in-vehicle E/E architecture, ensuring interoperability across different components. The use of scalable, service-oriented middleware over IP enhances the application's flexibility and extensibility, allowing for future enhancements without significant reengineering efforts.

Syahrul Nizam Samsudin and Bulan Abdullah have [4] developed a vehicle service system for 2021 that uses a big data platform to identify customer satisfaction and service experience (CSSE) scores. This innovative approach enables a comprehensive understanding of customer needs and preferences, enabling targeted improvements. The system aggregates and analyses vast amounts of data from various sources, providing timely and accurate CSSE scores. It also addresses unresolved issues in the automotive service industry, enabling service providers to implement corrective measures proactively. The adoption of a big data platform fosters continuous improvement and innovation within the industry, encouraging service providers to embrace new technologies and methodologies that enhance the overall service experience. The system represents a significant advancement in the automotive service industry, enhancing customer satisfaction and driving operational excellence.

In 2021, Chia-Ching Fu and Ben-Hau Chia[5] developed a groundbreaking website for Adaptive Automotive Systems, a platform that enables vehicles to dynamically adjust and execute software programmes based on real-time environmental conditions. The website serves as a centralised hub for managing and deploying adaptive software solutions within automotive systems, facilitating seamless communication between vehicles and external data sources. It uses sophisticated algorithms and machine learning techniques to analyse incoming data streams in real-time, making intelligent decisions about software execution and optimising vehicle performance and safety. The website offers a user-friendly interface, allowing automotive manufacturers and developers to customise and deploy adaptive software solutions tailored to specific use cases and vehicle models.

In 2020, Kavita Joshi and Hetali Patel[6] introduced an app called the Auto Service System to streamline the car service experience. The app allows users to register, book appointments, and manage service requests at their nearest repair center. It allows users to choose from alternative nearby centres if the selected centre doesn't have available dates. Users provide essential information like vehicle model, service requirements, and contact information when booking a service appointment. The app also facilitates communication between service advisors, mechanics, and users, generating service reports and invoices directly within the app. Service advisors can review and verify completed services before notifying the user. The Auto Service System framework enhances user convenience, efficiency, and transparency, ultimately transforming the car service experience for vehicle owners.

Uma Thakur and Manthan Borkar[7] have developed a website and mobile application for automotive service centres in 2020. The platform connects vehicle owners with service providers and offers real-time visibility into operational aspects. It allows users to manage service requests, track maintenance progress, and stay informed about key updates. The app provides full visibility into operational activities, including

spare parts orders, financial transactions, and detailed service reports. To access the platform, users must register with the necessary information. The website and mobile app serve as a centralised hub for all communication and interactions between vehicle owners and service centers. This innovative solution sets a new standard for customer service and operational management within the automotive service sector, enhancing communication and transparency and optimising operational efficiency. The platform represents a significant advancement in the automotive service industry.

C.K. Gomathy and M. Pedda Chandrasekhar[8] have developed a vehicle service management system in 2022, aiming to streamline the service process and improve the customer experience. The system is based on extensive data collection and meticulous study of auto repair shop activities. It offers tools for appointment scheduling, service tracking, inventory management, and customer communication. The system emphasises data-driven decision-making, allowing service providers to identify trends and anticipate customer needs. It also facilitates seamless communication and collaboration between all stakeholders involved in the service process. The system also benefits auto repair shops by optimising operational efficiency and profitability. By streamlining workflow processes, minimising downtime, and improving resource allocation, the system enables service providers to maximise productivity and deliver superior service to customers.

Vigyani Singh and Saurav Shinde [9] are developing a revolutionary vehicle service system in 2021. The system aims to streamline the service booking process and provide transparency regarding charges. Users can easily register and provide their information, allowing them to book appointments effortlessly. The system also allows users to reserve their preferred service dates, ensuring convenience and flexibility. The system also offers transparency regarding service charges, fostering trust and confidence among users. The system uses technology to enhance the car servicing experience, promoting efficiency and accountability within the automotive service industry. Users can expect a seamless and transparent service experience, from booking appointments to receiving detailed invoices. This system represents a significant advancement in the automotive service sector, putting the power in the hands of users and leveraging technology to enhance transparency and convenience.

Sathwik Krishna, L., and Siva Rama Krishna, S[10]., have created a website for a vehicle breakdown service provider system in 2021. The platform aims to provide timely assistance to users experiencing vehicle breakdowns by facilitating seamless communication between users and mechanics. The system collects user information, including location, problem description, and vehicle details, ensuring mechanics have all the necessary details to address the issue effectively. Once submitted, the system forwards the details to a nearby mechanic, enabling a quick response and dispatch of assistance.

CHAPTER 3

THEORETICAL BACKGROUND

3.1 IMPLEMENTATION ENVIRONMENT

a) SOFTWARE REQUIREMENT:

- FRONT END : Android
- DATA BASE : SQL Server
- WEB SERVICE : Dotnet

b) HARDWARE REQUIREMENT:

- Memory (RAM): 16 GB
- Hard Drive: 32 GB
- Stable Internet Connection
- Monitor: LG
- Processor Core : 2 Cores

3.2 ARCHITECTURE OVERVIEW

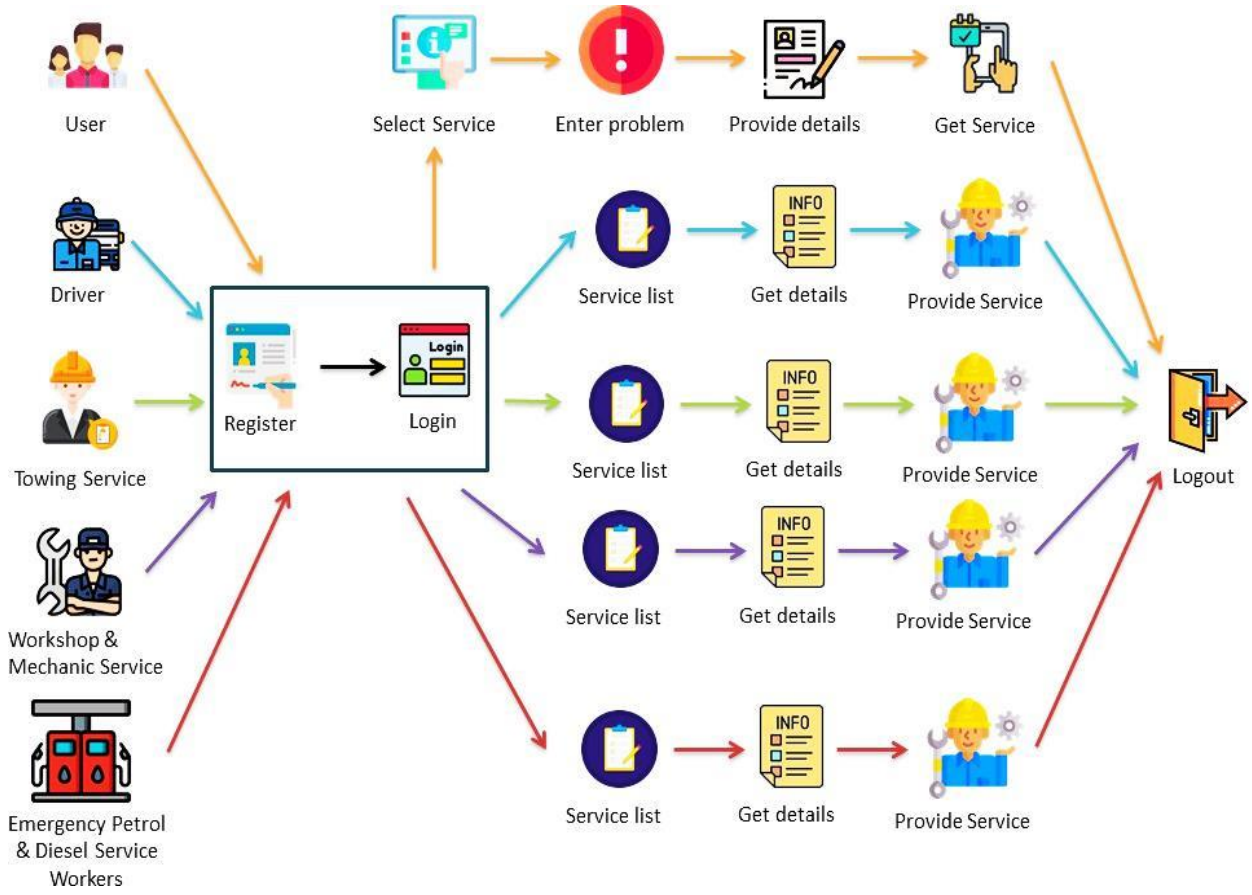


Fig 3.2 Architecture diagram for Integrated Automotive Maintenance And Operations Platform

Figure 3.2 shows The proposed system is a comprehensive platform for the automotive service industry, facilitating seamless interaction between users, drivers, towing services, workshop mechanics, and emergency gasoline service providers. It offers ervicing, driver booking, car rental, and professional drivers for long-distance journeys. The system streamlines communication and service car sdelivery, enhancing the overall automotive service experience for users.

3.3 PROPOSED METHODOLOGY

The proposed system is a user-friendly mobile app that transforms how drivers handle breakdowns. Instead of dealing with the hassle of making phone calls or relying on chance encounters for help, this project provides a simple solution at your Phone Applications. When your vehicle breaks down, just open the app and report the issue. Whether you need a driver because you can't drive, fuel delivery for an empty tank, or workshop for repairs, project has you covered.

With this project, help is just a few taps away. The app uses GPS to pinpoint your location and quickly track the location. You can track the progress of your request in real-time, giving you peace of mind knowing help is on the way. The app streamlines the payment process and lets you provide feedback on the service received, ensuring a smooth and satisfying experience from start to finish.

This project simplifies the entire roadside assistance process, reducing downtime and frustration for drivers. By centralizing all services within one platform, project offers convenience and reliability when you need it most. Whether you're stranded on the side of the road or simply need a refill, this project is your trusted companion for all things breakdown-related.

Benefits of proposed system

- Enhanced Communication
- Cost-Effectiveness
- Environmental Sustainability
- Better Utilization Resource
- Data Analytics for Service Improvement

3.4 MODULE DESIGN

USE CASE DIAGRAM

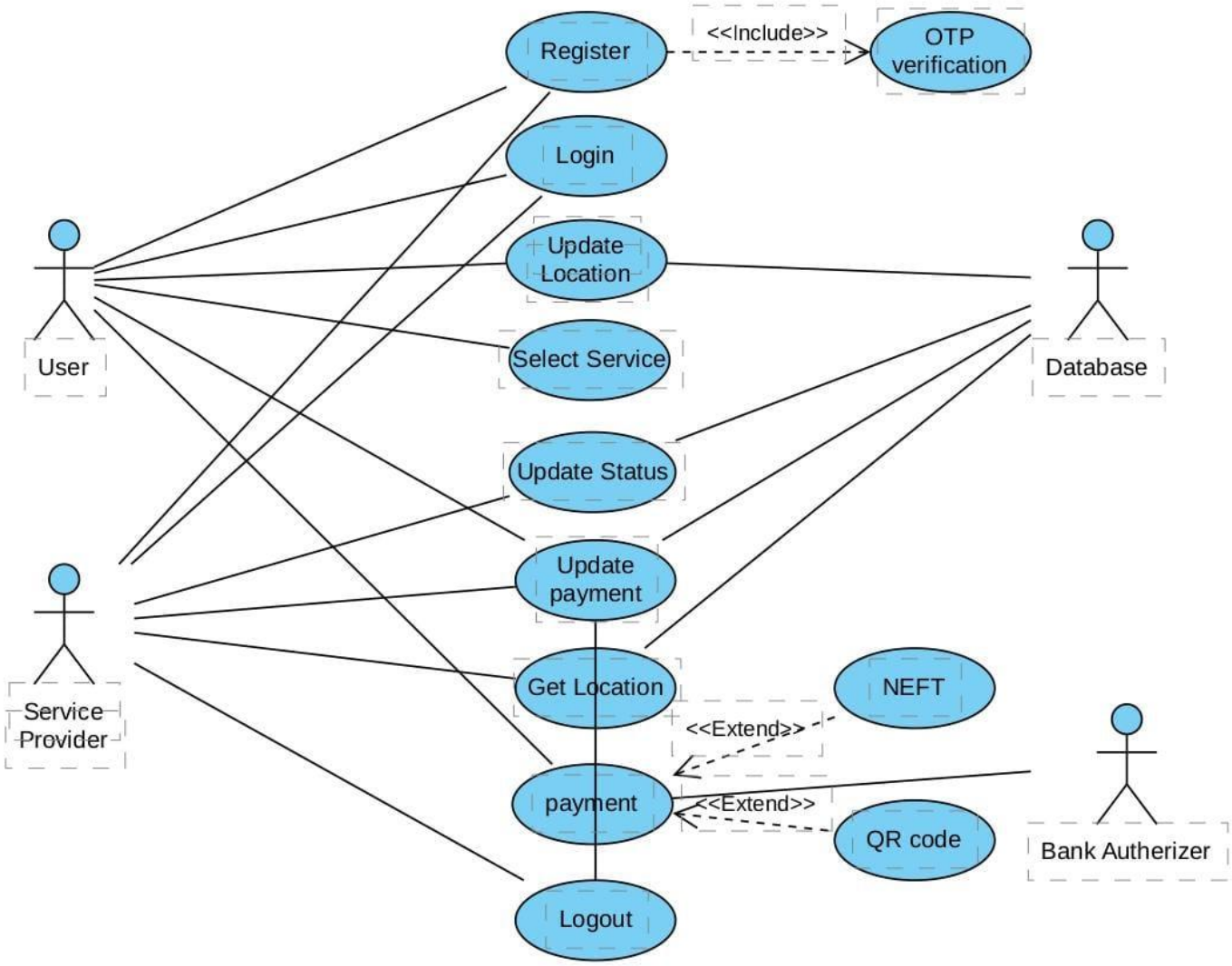


Fig 3.4.1 Use case diagram for Integrated Automotive Maintenance And Operations Platform

CLASS DAIGRAM

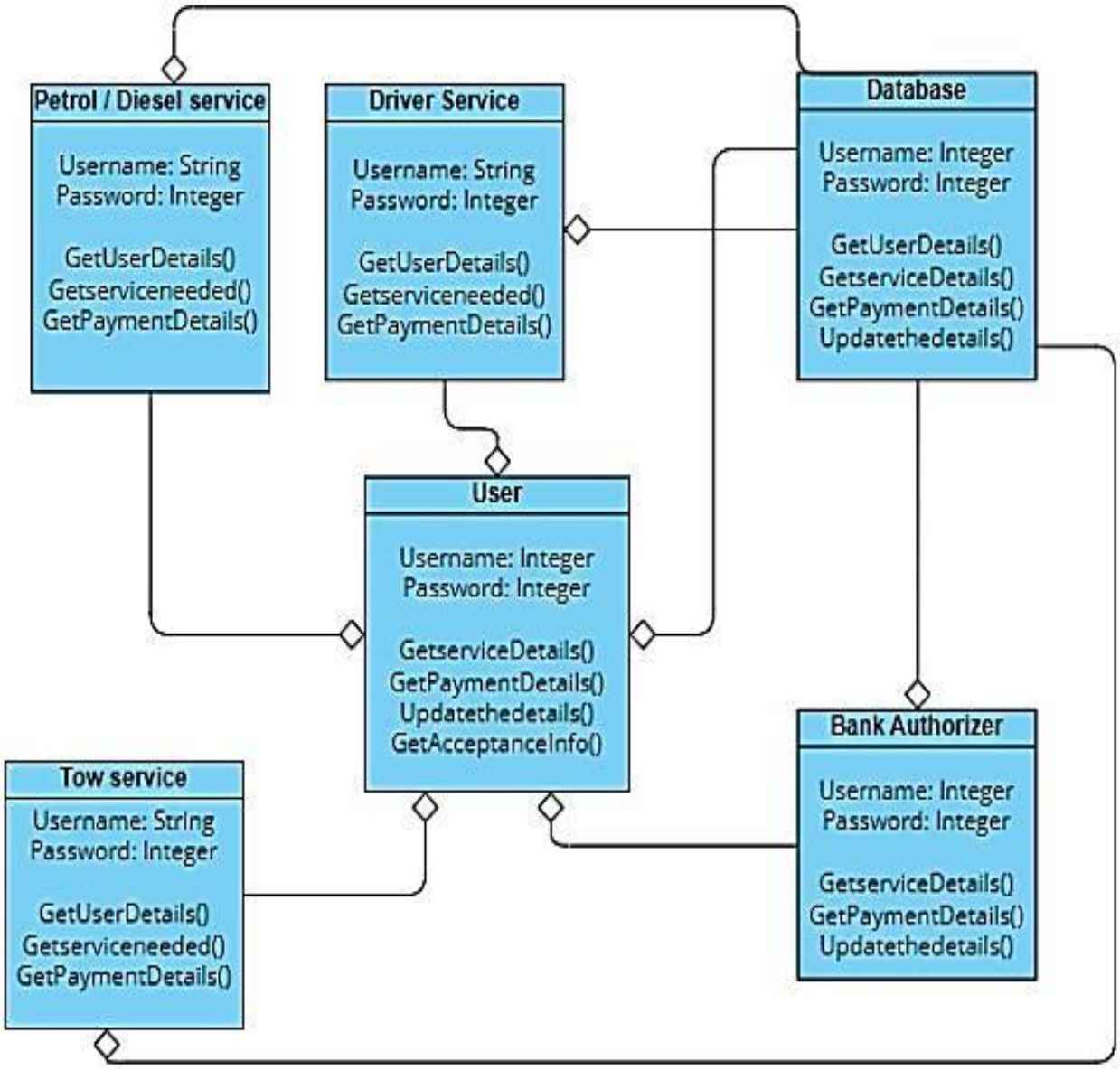


Fig 3.4.2 Class Diagram for Integrated Automotive Maintenance And Operations Platform

SEQUENCE DIAGRAM

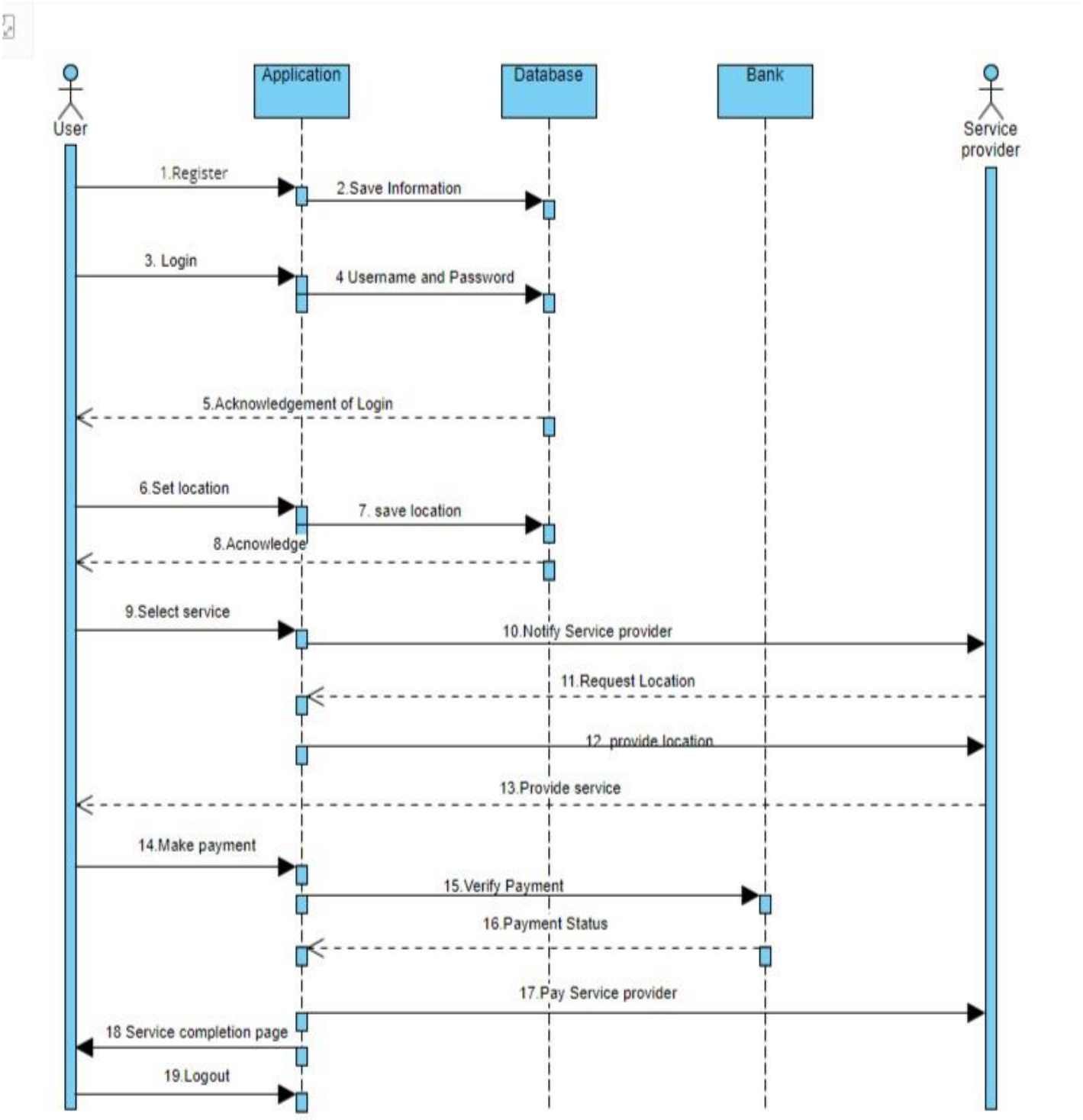


Fig 3.4.3 Sequence Diagram for Integrated Automotive Maintenance And Operations Platform

ACTIVITY DIAGRAM

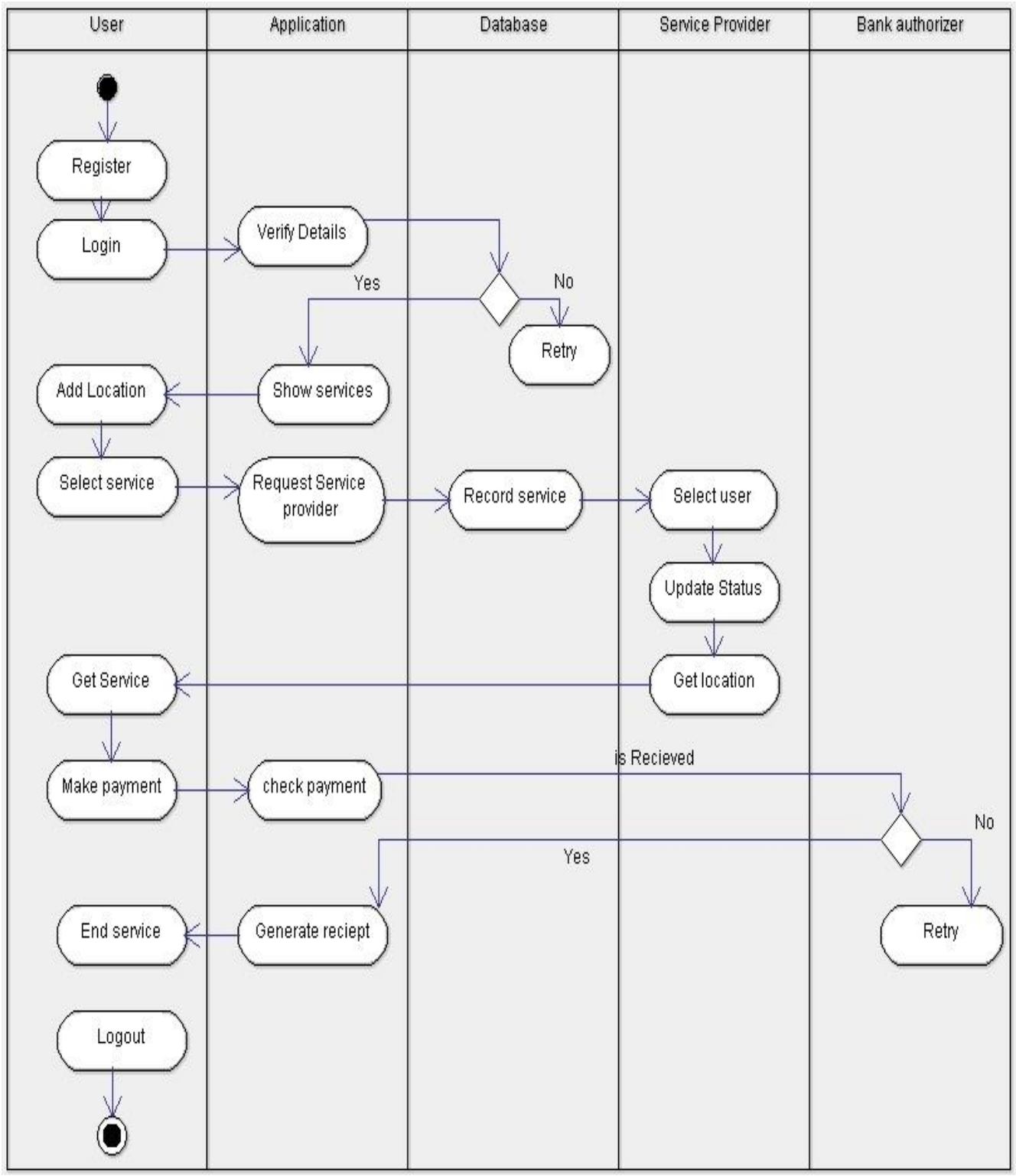
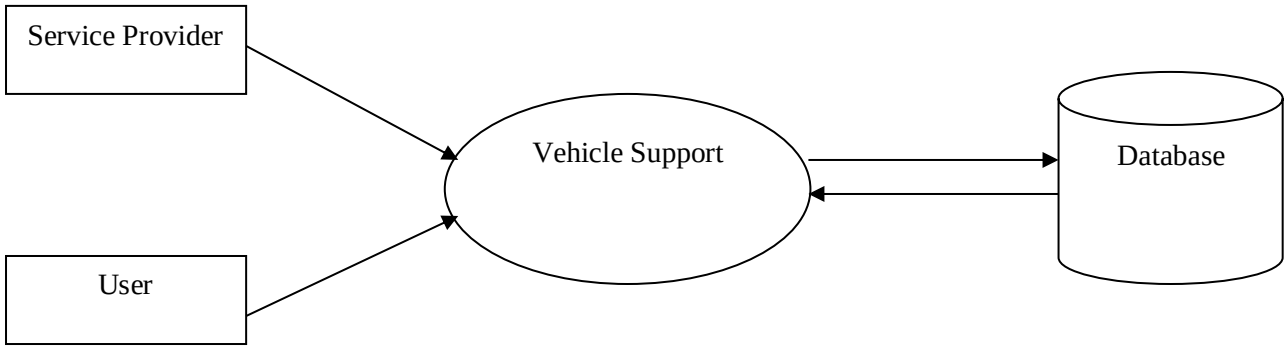


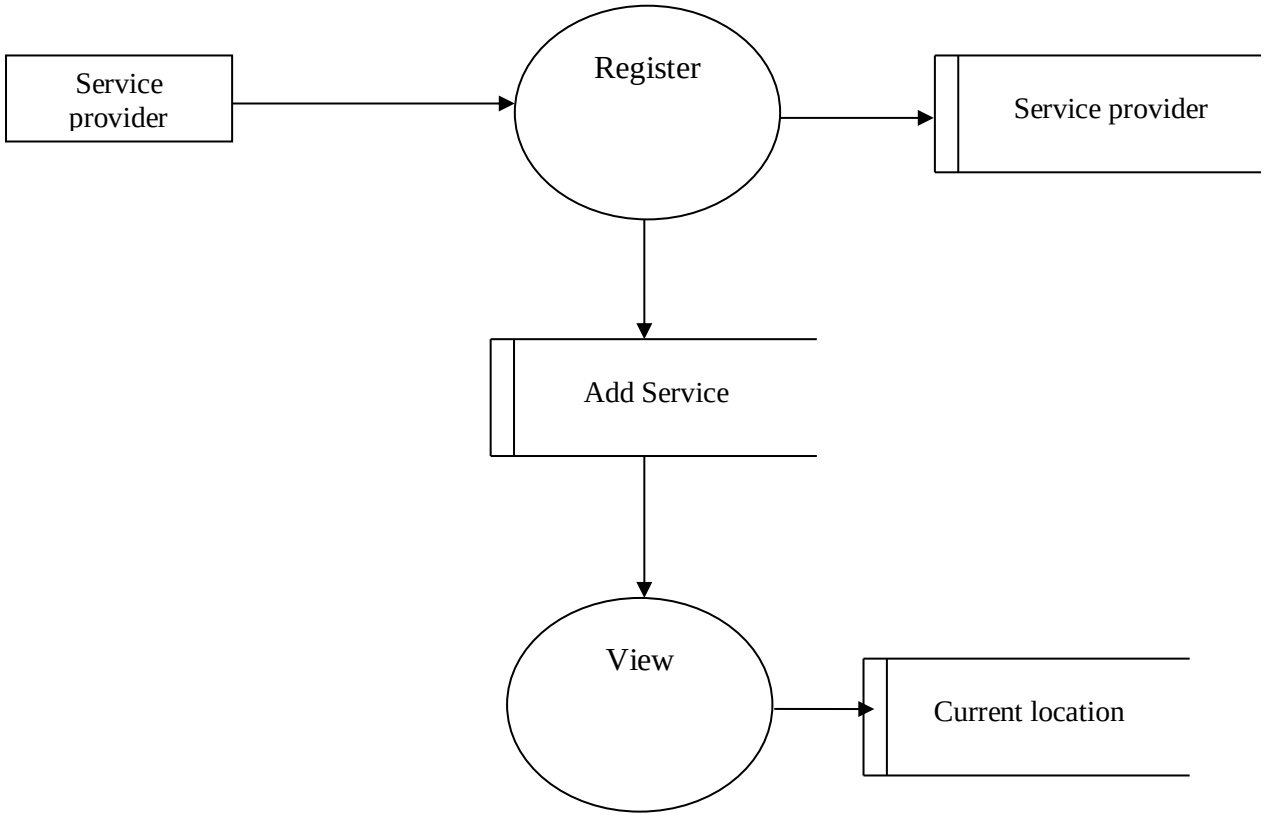
Fig 3.4.4 Activity Diagram for Integrated Automotive Maintenance And Operations Platform

DATA FLOW DIAGRAM

Level 0



Level 1



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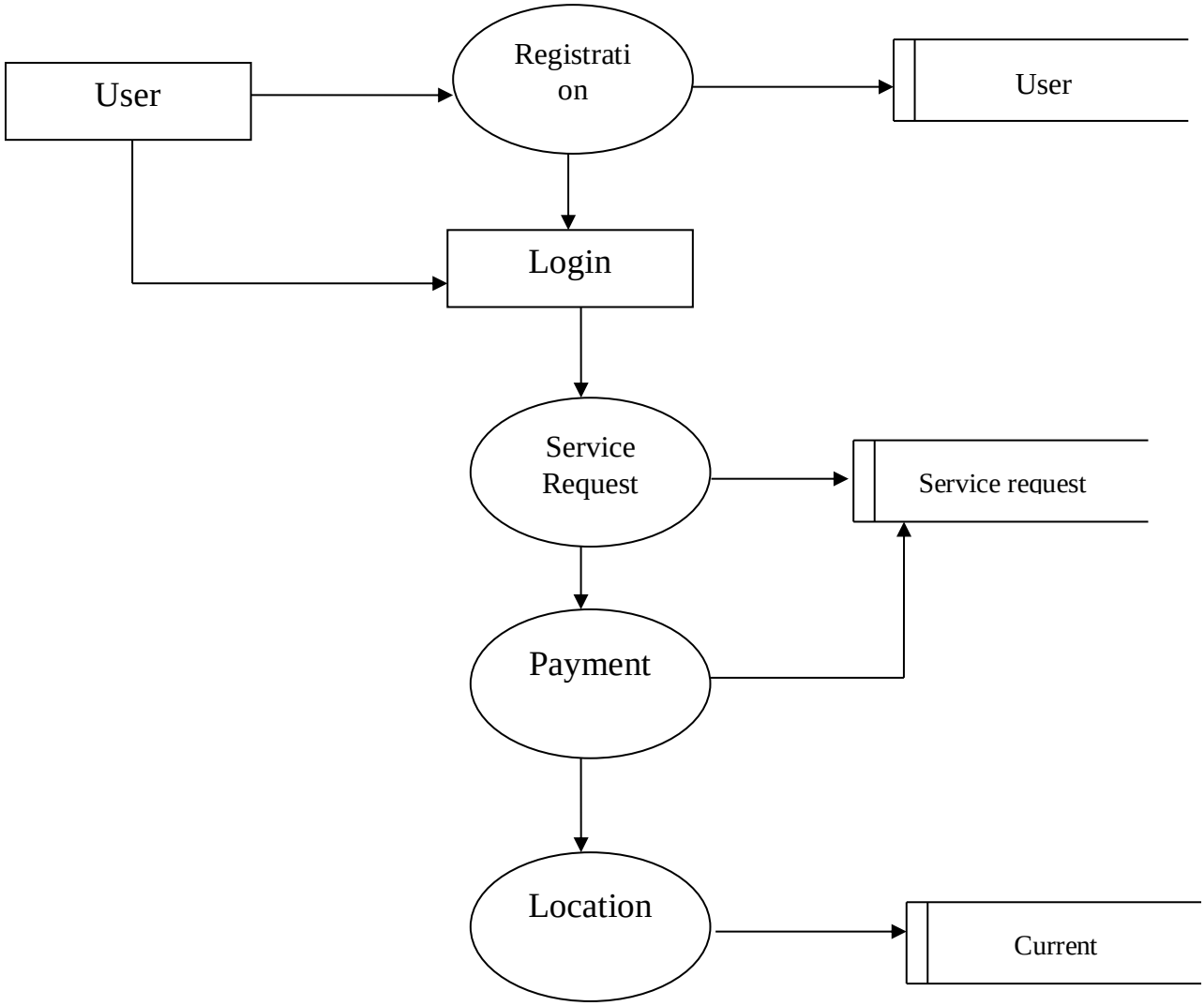


Fig 3.4.5 Data Flow Diagram for Integrated Automotive Maintenance And Operations Platform

COLLABORATION DIAGRAM

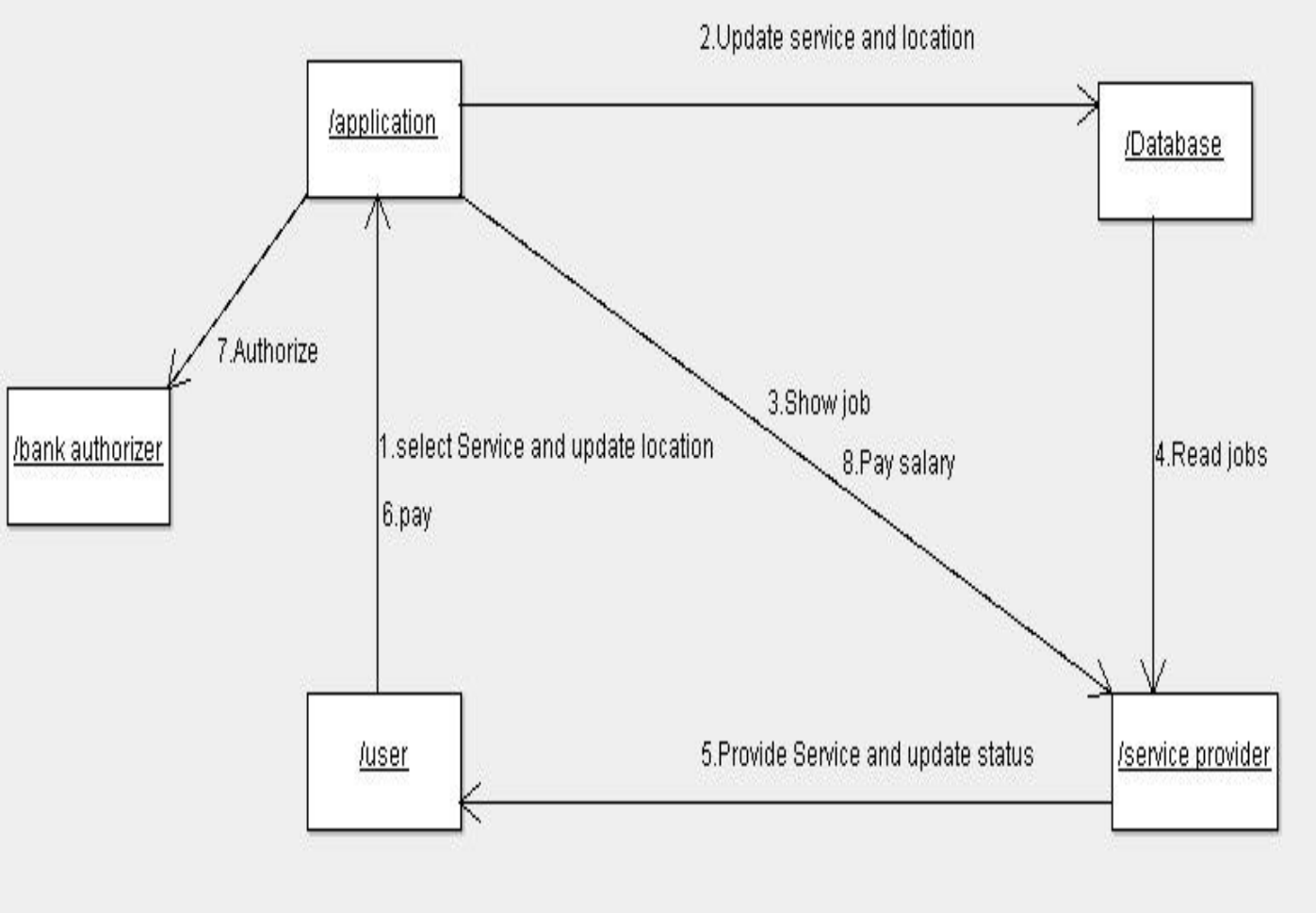


Fig 3.4.6 Collaboration Diagram for Integrated Automotive Maintenance And Operations Platform

DEPLOYMENT DIAGRAM

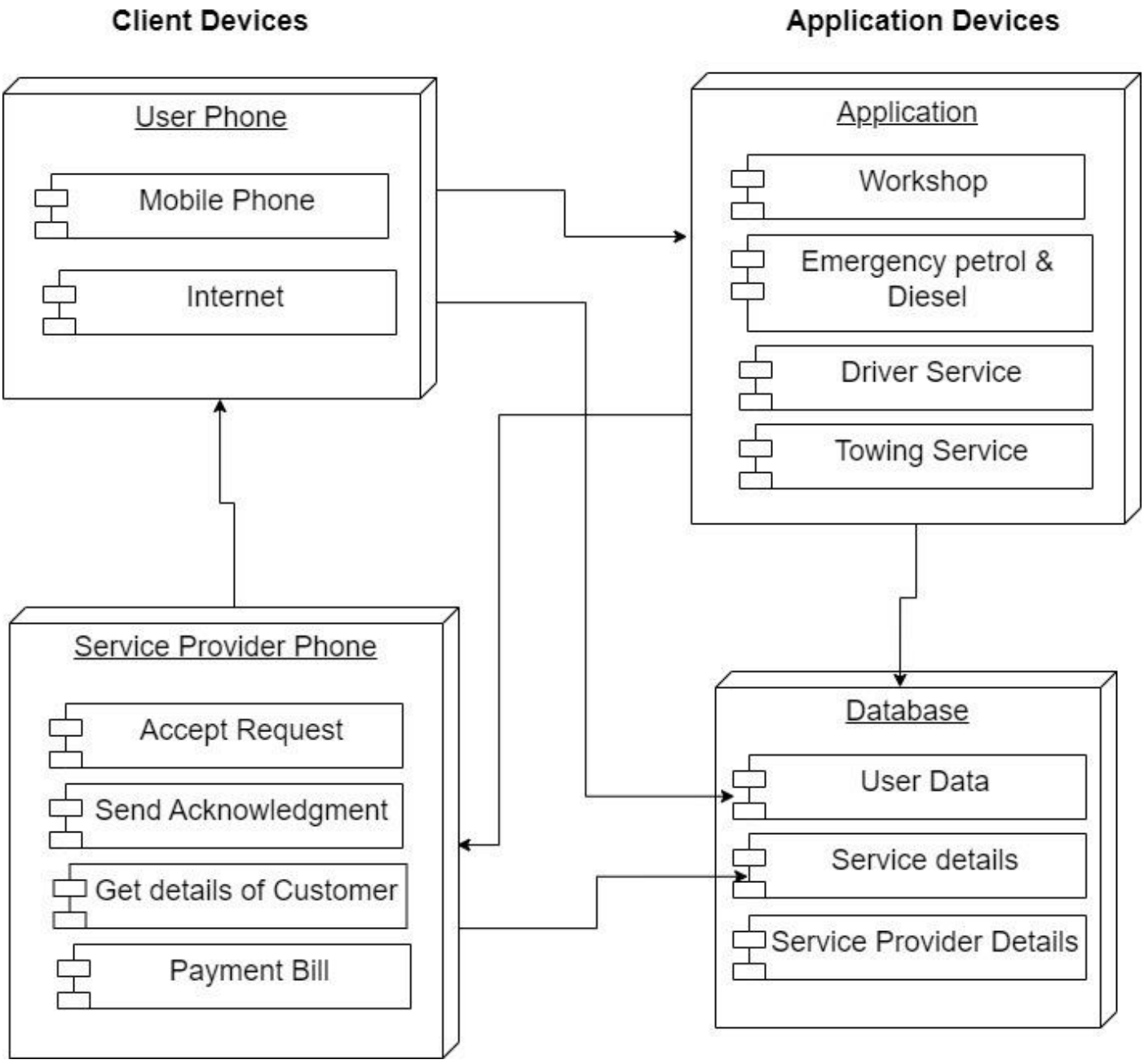


Fig 3.4.7 Deployment Diagram for Integrated Automotive Maintenance And Operations Platform

COMPONENT DIAGRAM

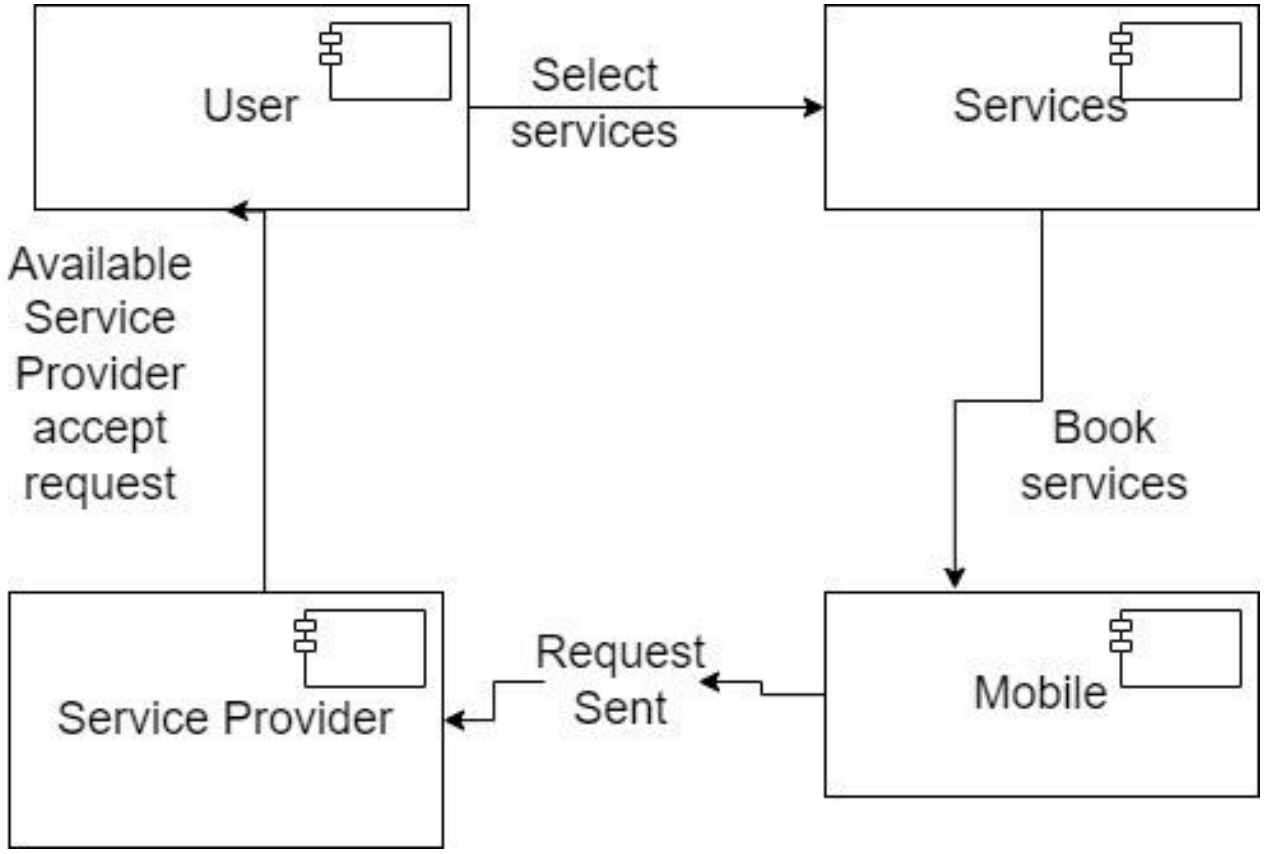


Fig 3.4.8 Component Diagram for Integrated Automotive Maintenance And Operations Platform

CHAPTER 4

SYSTEM IMPLEMENTATION

4.1 MODULE EXPLAINATION

There are five modules involved in this system.

They are

- **User**
- **Driver Assistance**
- **Workshop**
- **Towing Service**
- **Emergency Petrol Solutions**
- **Reports and status**

USERS

This system allows users to register with all their details, providing essential information such as name, contact details, vehicle information, and address. Once registered, users can log in securely using their credentials, accessing the platform's features. A key functionality is the ability for users to search for local mechanics based on their address. By inputting their location details, users can browse through a list of nearby mechanics available for service. Upon selecting a preferred mechanic, users can send service requests directly to the chosen professional. This streamlined process enables users to quickly connect with mechanics in their vicinity, facilitating efficient scheduling and coordination of vehicle maintenance and repair services.

DRIVER ASSISTANCE

The system's driver booking feature caters to users requiring professional drivers for long-distance trips, ensuring convenience and reliability throughout the process. Users begin by providing their details, including any necessary address proof, to verify their identity and facilitate seamless booking. They can then specify their desired date, time, and location for the trip, allowing for flexible scheduling based on their preferences and requirements. Once the user inputs their trip details, the system provides access to a pool of available drivers, each with their own profiles and ratings. Users can review driver profiles, including qualifications, experience, and reviews from previous passengers, to make an informed decision. This transparency empowers users to select a driver who best suits their needs and preferences. Upon selecting a preferred driver, users can easily book them for their journey

through the system. Contact information for the chosen driver is promptly shared, enabling seamless communication and coordination leading up to the trip. This ensures that users can discuss any specific requirements or details directly with the driver, further enhancing the overall experience. After the trip is completed, users have the option to conveniently settle fares either online through the platform or in person with the driver. This flexibility allows users to choose their preferred payment method, ensuring a hassle-free and comfortable journey from beginning to end. Overall, the system's driver booking feature provides users with a convenient and reliable solution for arranging professional drivers for their long-distance journeys, offering transparency, flexibility, and ease of use throughout the entire process.

WORKSHOP

Our intuitive system simplifies the process of scheduling and booking car servicing for users, ensuring convenience and efficiency. Users begin by specifying their vehicle type, providing essential information to tailor the service to their specific needs. They then have the option to choose from a list of available service centers located in their vicinity, enabling them to select the most convenient location for their appointment. Once users have selected a service center, they can easily book their appointment based on their schedule preferences. Our system offers flexibility, allowing users to choose the date and time that best suits them, ensuring minimal disruption to their daily activities. This streamlined booking process eliminates the need for time-consuming phone calls or in-person visits, providing users with a hassle-free experience. Upon completion of the service, users receive detailed invoices and payment receipts directly through our system. This transparent and efficient payment process allows users to review the breakdown of services rendered and associated costs. Users have the option to make seamless online payments through our secure platform or settle the payment directly with the service provider, providing flexibility to suit their preferences. Overall, our system ensures optimal vehicle maintenance by offering users a convenient and user-friendly platform to schedule and book car servicing. With intuitive booking options, transparent payment processes, and seamless coordination with service centers, we provide users with a hassle-free experience, allowing them to maintain their vehicles efficiently and effectively.

TOWING SERVICE

A towing service plays a pivotal role in providing essential assistance to vehicles that are immobilized due to various reasons such as mechanical breakdowns, accidents, or other unforeseen circumstances. When a vehicle becomes inoperable or unsafe to drive, whether due to engine failure, a flat tire, or involvement in an accident, a towing service comes to the rescue. Utilizing specialized vehicles such as flatbed trucks or wreckers, towing services ensure the safe relocation of vehicles from one location to another. Flatbed trucks are particularly useful for transporting vehicles that cannot be driven, as they provide a stable platform for the vehicle to be securely loaded and transported. Wreckers, on the other hand,

are equipped with towing mechanisms that can lift and tow vehicles with non-operational wheels.

In addition to transporting vehicles to repair facilities or other desired destinations, towing services also play a crucial role in ensuring the safety of the roadways. Vehicles involved in accidents or breakdowns can pose hazards to other motorists if left stranded in precarious locations. Towing services promptly remove these vehicles, reducing the risk of further accidents and traffic disruptions. Moreover, towing services often operate round-the-clock, providing assistance to motorists in distress at any time of the day or night. This ensures that help is readily available whenever emergencies arise, offering peace of mind to drivers and passengers alike. Overall, towing services play an indispensable role in ensuring the safety and mobility of vehicles on the roads. By providing swift and reliable assistance to vehicles in need, towing services contribute to maintaining the efficiency and integrity of the transportation infrastructure.

EMERGENCY PETROL SOLUTIONS

Our dedicated emergency gasoline service addresses the pressing needs of drivers encountering fuel-related issues while on the road, ensuring efficient solutions and timely assistance. Whether facing an empty tank or other petrol-related emergencies, users can swiftly access our platform and utilize the gasoline service option to resolve their predicament. By leveraging our extensive network, we connect drivers with nearby petrol stations or arrange convenient fuel delivery services with just a few clicks. We prioritize reliability and convenience, aiming to minimize any inconvenience experienced by drivers in such situations. Our platform ensures that drivers can refuel their vehicles promptly and continue their journey without unnecessary delays or disruptions. This commitment to providing swift and effective assistance underscores our dedication to assisting drivers in overcoming fuel-related challenges while on the road. Through our emergency gasoline service, we aim to offer peace of mind to drivers, knowing that they have a reliable resource to turn to in times of need. Whether stranded due to an empty tank or facing other petrol-related emergencies, drivers can trust our platform to deliver efficient solutions and help them get back on the road safely and efficiently.

REPORT AND STATUS

This module serves as a crucial link between service providers and users, ensuring seamless payment processing and detailed reporting for completed work. Once the service provider finishes a job, they input the details into the database, marking the completion of the service. Subsequently, the service provider receives the final payment report, which contains comprehensive information about the work undertaken. The report includes details such as service specifics, user information, and any additional notes relevant to the job. This thorough documentation allows both service providers and users to review the completed work and ensure accuracy. Service providers can access the report to verify the service details and confirm that all requirements have been met satisfactorily.

4.2 DATABASE DESIGN

User table:

Primary Key: userid

Column Name	Data Type
Userid	varchar(50)
Pwd	varchar(50)
Fullname	varchar(50)
Addr	varchar(50)
Mob	varchar(50)
Email	varchar(50)

Fig 4.2.1 User Table

The Fig 4.2.1 shows the structure of the user details in the users table which includes the userid,Pwd,fullname,address,mob no,email.

Service provider table:

Primary Key: userid

Column Name	Data Type
Userid	varchar(50)
Pwd	varchar(50)
Fullname	varchar(50)
Addr	varchar(50)
Mob	varchar(50)
Email	varchar(50)

Fig 4.2.2 Service Provider Table

The Fig 4.2.2 shows the structure of the service provider details in the service provider table which includes the userid,Pwd,fullname,address,mob no,email.

Add Service table:

Primary Key: id

Column Name	Data Type
id	int
Userid	varchar(50)
Service	varchar(50)

Fig 4.2.3 Add Service Table

The Fig 4.2.3 shows the structure of the service provided by the service provider .

Car location table:

Foreign key: Userid

Column Name	Data Type
Userid	varchar(50)
Uname	varchar(50)
latitude	varchar(50)
longitude	varchar(50)
dt	varchar(500)

Fig 4.2.4 Location Table

The Fig 4.2.4 shows the structure of the location used by the users which contains the latitude and the longtitude of the users.

Service Request table:

Primary Key: id

Foreign key: requser,servierid

Column Name	Data Type
id	int
Requser	varchar(50)
Servicerid	varchar(50)
Service	varchar(50)
Descrip	varchar(MAX)
Sdate	varchar(50)
Reply	varchar(50)
Payment	varchar(50)
PStatus	varchar(50)

Fig 4.2.5 Service Request Table

The Fig 4.2.5 shows the structure of the request that has been given by the users and The request can be seen by the service provider.

4.3 SYSTEM DESIGN

Input design

Input design is the process of converting user-originated inputs to a computer-based format. Input design is one of the most expensive phases of the operation of computerized system and is often the major problem of a system.

In the project, the input design is made in various android forms with various methods.

- Register service Provide
- Register User
- Add service

Output design:

Output design generally refers to the results and information that are generated by the system for many end-users; output is the main reason for developing the system and the basis on which they evaluate the usefulness of the application. In any system, the output design determines the input to be given to the application.

In the project, the output design is made in various mobile app with various methods.

- Service Request
- tracking

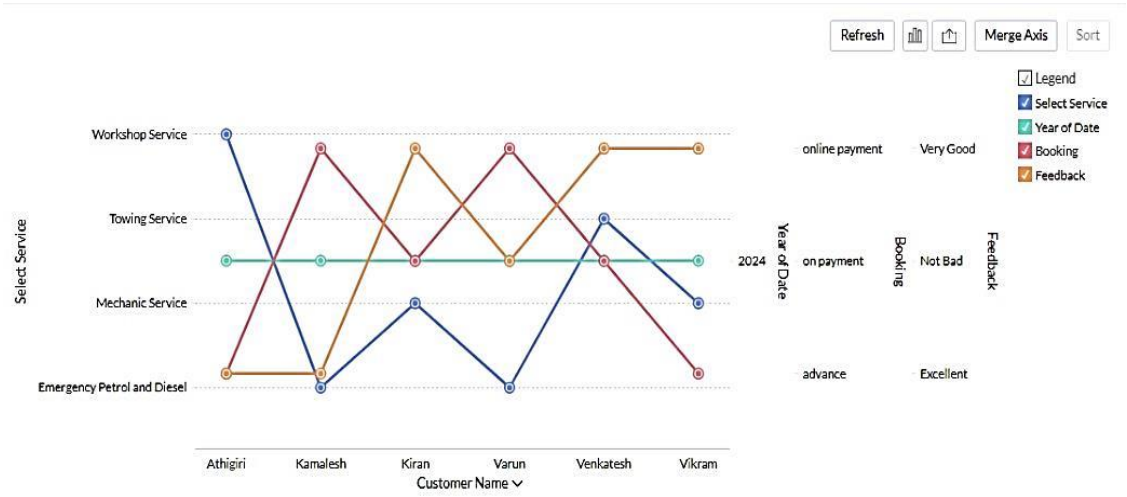
CHAPTER 5
RESULTS & DISCUSSION

5.1 PERFORMANCE PARAMETERS

TEST CASE ID	TESTCASE/ ACTION TO BE PERFORMED	EXPECTED RESULT	ACTUAL RESULT	PASS/ FAIL
1.	Login portal for user id to login.	Login success	Login success	Pass
2.	Login portal for service Provider to login.	Login success	Login success	Pass
3.	Service provider register the service he Provides.	Service Added	Service Added	Pass
4.	User send the service Request to the service provider.	Request sent	Request sent	Pass
5.	Service provider update The request to the user	Added successfully	Added successfully	Pass
6.	Payment to the service Provider by the user	Paid	Paid	Pass

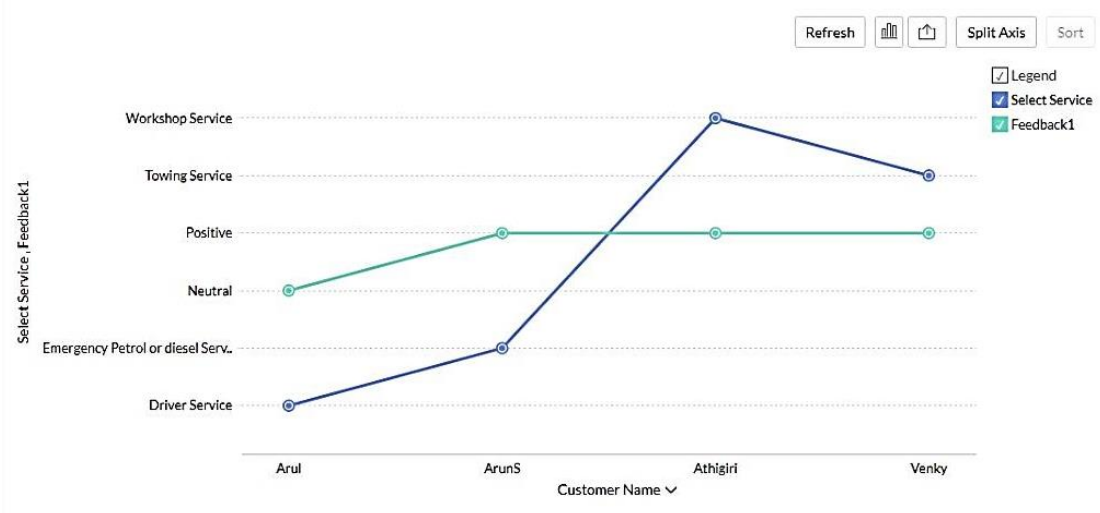
Fig 5.1 Performance Parameters

5.2 PERFORMANCE TESTING



5.2.1 System Testing based on User Usage

The graph shows higher demand for emergency petrol and diesel services, indicating customer satisfaction. Workshop services show lower demand, suggesting fewer instances or alternative maintenance preferences. Expected rise in service bookings and positive feedback indicate efficient booking processes, emphasizing customer preferences and effective service delivery.



5.2.2 System Testing based on service feedback

The graph shows customer feedback on driver assistance services, revealing variations in demand and preferences. Despite these, consistently positive feedback indicates satisfaction with the service's quality, highlighting its effectiveness in meeting customer expectations and enhancing user experience.

5.3 RESULTS & DISCUSSION

- Implementation is the most crucial stage in achieving a successful system and giving the user's confidence that the new system is effective and workable. Implementation of this project refers to the installation of the package in its real environment to the full satisfaction of the users and operations of the system.
- Testing is done individually at the time of development using the data and verification is done the way specified in the program specification. In short, implementation constitutes all activities that are required to put an already tested and completed package into operation. The success of any information system lies in its successful implementation.
- System Implementation is the stage in the project where the theoretical design is turned into a working system. The most critical stage is achieving a successful system and in giving confidence on the new system for the user that it will work efficiently and effectively. The existing system was long time process.
- The project execution was checked with live environment and the user requirements are satisfied. Proper implementation is essential to provide a reliable system to meet the organization requirements.

CHAPTER 6

CONCLUSION AND FUTURE WORK

CONCLUSIONS

It is concluded that the application works well and satisfy the end users. The application is tested very well and errors are properly debugged. The application is simultaneously accessed from more than one system. Simultaneous login from more than one place is tested. This system is user friendly so everyone can use easily. Proper documentation is provided. The end user can easily understand how the whole system is implemented by going through the documentation. The system is tested, implemented and the performance is found to be satisfactory. All necessary output is generated. Thus, the project is completed successfully.
Further enhancements can be made to the application, so that the application functions very attractive and useful manner than the present one. The speed of the transactions become more enough now.

FUTURE ENHANCEMENTS

There is scope for future development of this project. The world of computer fields is not static; it is always subject to be dynamic. The technology which is famous today becomes outdated the very next day. To keep abstract of technical improvements, the system may be further refined. So, it is not concluded. Yet it will improve with further enhancements.

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[6] Kavita Joshi1, Hetali Patel2, Zeenal Patel3, Dhanlaxmi Prasad4, Kunika Tandel5 “Automobile Service System” International Journal for Research in Applied Science & Engineering Technology (IJRASET)ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 8 Issue V May 2020. disruption and enhancing convenience. Its commitment to innovation and user-centric design promises to reshape the automotive industry, fostering safer and more efficient journeys for drivers worldwide. The platform exemplifies the transformative potential of technology in improving the driving experience.

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APPENDICES

A.1 SOURCE CODE

ADD ATTENDENCE

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Context;
import android.content.Intent;
import android.view.Menu;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.BaseAdapter;
import android.widget.ListView;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.view.View;
@SuppressLint("NewApi")
public class Addattendance extends Activity {
	//private long sid; // Assuming you have an ID for each item
	public String sid,sname,att;
	public String[] id= new String[41];
	public String[] sta= new String[41];
	TextView t1,t2,t3;
	 String Userid,Uname,Ser;
	 TextView tv;
	 Spinner sp;
	 String rno;
	 public ListView lv;
		public String login;
		public int rowcount=0;
	@Override
	protected void onCreate(Bundle savedInstanceState) {
		super.onCreate(savedInstanceState);
		setContentView(R.layout.activity_addattendance);
		t1 = (TextView) findViewById(R.id.textView1);
		t2 = (TextView) findViewById(R.id.textView2);
		t3 = (TextView) findViewById(R.id.textView3);
```

```
                lv = (ListView) findViewById(R.id.listView1);
                Intent ii = getIntent();
                Userid = ii.getStringExtra("userid");
                Uname = ii.getStringExtra("Username");
                Ser = ii.getStringExtra("Service");
      t1.setText(Userid);
      t2.setText(Uname);
      t3.setText(Ser);
//
                if (android.os.Build.VERSION.SDK_INT >= 9) {
                        StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
                        StrictMode.setThreadPolicy(policy);
                    }
                       try {
                login=WebService.viewuser(t3.getText().toString(),"Viewuser");
          // Toast.makeText(getApplication(),login,Toast.LENGTH_LONG).show();
          String[] listss= login.split("#");
          int xx= listss.length;

          int iRows = listss.length;
          rowcount=iRows;

         id = new String[iRows];
         sta = new String[iRows];

   int i=0;
   // looping through all rows and adding to list
   for (i=0;i<listss.length;i++) {
     String[] ListItems = listss[i].toString().split(",");

     id[i]=ListItems[0].toString();
     sta[i]=ListItems[1].toString();
        //         i++;
   }
  lv.setAdapter(new ImageAdapter(getApplicationContext()));
  lv.setOnItemClickListener(new OnItemClickListener() {
     @Override
     public void onItemClick(AdapterView<?> parent, View view, int position, long id) {

          TextView bugid=(TextView) view.findViewById(R.id.p1);
          TextView sta=(TextView) view.findViewById(R.id.p2);
          //TextView price=(TextView) view.findViewById(R.id.tvStatus);
    //    String url =WebService.URLimg +imgpath[position];
            //      Toast.makeText(UserHome.this,tv.getText(), Toast.LENGTH_LONG).show();
        Intent ij = new Intent(Addattendance.this, Sendrequest.class);
        ij.putExtra("Serid",bugid.getText());
       ij.putExtra("Service",sta.getText());
       ij.putExtra("userid",t1.getText().toString());
        startActivityForResult(ij,500);
     }
  });        }
                        catch (Exception e)
```

```
                {
                        Toast.makeText(this, "No Data", Toast.LENGTH_LONG).show();
                 }
}
        private class ImageAdapter extends BaseAdapter
        {
                private Context ctx;
                private TextView tv1;
                private TextView tv2;
                private LayoutInflater layoutInflater;
                public ImageAdapter(Context context)
                {
                        this.ctx= context;
                        layoutInflater = (LayoutInflater)
ctx.getSystemService(LAYOUT_INFLATER_SERVICE);
                }
                @Override
                public int getCount() {
                        // TODO Auto-generated method stub
                        return rowcount;
                }
                @Override
                public Object getItem(int position) {
                        // TODO Auto-generated method stub
                        return position;
                }
                @Override
                public long getItemId(int position) {
                        // TODO Auto-generated method stub
                        return position;
                }
        @Override
                public View getView(int position, View convertView, ViewGroup parent) {

                                ViewGroup onerow = (ViewGroup)
layoutInflater.inflate(R.layout.customattendance, null);

                                tv1 = (TextView) onerow.findViewById(R.id.p1);
                                tv2 = (TextView) onerow.findViewById(R.id.p2);

                                tv1.setText(id[position]);
                                tv2.setText(sta[position]);

                                return onerow;
                }
        }
        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.addattendance, menu);
                return true;
        }
}
```

ADD SEREVICE

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.Spinner;
import android.widget.TextView;
import android.widget.Toast;
@SuppressLint("NewApi")
public class Addservice extends Activity {
	TextView t1;
	 public String login,login1;
	 String Userid;
	 Spinner s1,s2;
	@Override
	protected void onCreate(Bundle savedInstanceState) {
		super.onCreate(savedInstanceState);
		setContentView(R.layout.activity_addservice);

		t1 = (TextView) findViewById(R.id.textView1);
		 s1 = (Spinner) findViewById(R.id.spinner1);

		Intent ii = getIntent();
		Userid = ii.getStringExtra("userid");
      t1.setText(Userid);
	}

	public void Aser(View arg)
   {
      if (android.os.Build.VERSION.SDK_INT >= 9) {
	StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
	StrictMode.setThreadPolicy(policy);
      }

     try {

		login =
WebService.Addservice(t1.getText().toString(),s1.getSelectedItem().toString(),"Addservice");
		String[] str=login.split(",");
		    if(str[0].equals("ok"))
		    {
		       Toast.makeText(this, "Added Successfully", Toast.LENGTH_LONG).show();
		    }
		    else
		    {
		       Toast.makeText(getApplication(),"Already
Added",Toast.LENGTH_SHORT).show();
```

```
                }
            }

    catch (Exception e)
  {
        Toast.makeText(this, "Exception", Toast.LENGTH_LONG).show();

    }
    }
        public void Bhome(View v)
        {
                Intent i = new Intent(this,Servicermain.class);
                 i.putExtra("userid",t1.getText().toString());
                startActivity(i);
        }
        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.addservice, menu);
                return true;
        }
}
```

CHOOSE LOGIN

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;

public class Chooselogin extends Activity {
        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_chooselogin);
        }
        public void gotouser(View v)
        {
                Intent i = new Intent(this,Userlogin.class);
                startActivity(i);
        }
        public void gotoser(View v)
        {
                Intent i = new Intent(this,Servicerlogin.class);
                startActivity(i);
        }
        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.chooselogin, menu);
```

```
            return true;
        }}
```

HOME PAGE

```
package com.example.vehiclesupport;
import java.util.Timer;
import java.util.TimerTask;
import android.location.Criteria;
import android.location.Location;
import android.location.LocationListener;
import android.location.LocationManager;
import android.os.Bundle;
import android.os.Handler;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.app.Notification;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.app.AlertDialog.Builder;
import android.content.Context;
import android.content.Intent;
import android.util.Log;
import android.view.Menu;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

@SuppressLint("NewApi")
public class HomePage extends Activity implements LocationListener {
public TextView t1,t2,t3,t4,tlat,tlong;
public Button b1,b2;
public TextView ednotification;
public String s,result,result1;
private boolean started = true;
private Handler handler = new Handler();
String drivname,empname;
LocationManager locationManager ;
String provider;
String lati,log;
Handler mHandler;
public String[] arr1= new String[41];
public String[] arr2= new String[41];
public String[] arr3= new String[41];
public String[] arr4= new String[41];
public String[] arr5= new String[41];
public String[] arr6= new String[41];
public String[] arr7= new String[41];
public int rowcount=0;
public String login;
```

```
@Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_home_page);
                b1=(Button)findViewById(R.id.exit);
                //ednotification= (TextView) findViewById(R.id.textView4);
                t1=(TextView)findViewById(R.id.textView1);
                t2=(TextView)findViewById(R.id.textView2);
                t3=(TextView)findViewById(R.id.textView3);
                t4=(TextView)findViewById(R.id.textView4);
                tlat=(TextView)findViewById(R.id.textView5);
                tlong=(TextView)findViewById(R.id.textView6);

                Intent intent = getIntent();
                 t1.setText(intent.getStringExtra("userid"));
                 t4.setText(intent.getStringExtra("Username"));

                 // Getting LocationManager object
      locationManager = (LocationManager)getSystemService(Context.LOCATION_SERVICE);
     // Creating an empty criteria object
      Criteria criteria = new Criteria();
      // Getting the name of the provider that meets the criteria
      provider = locationManager.getBestProvider(criteria, false);
      if(provider!=null && !provider.equals("")){
         // Get the location from the given provider
         Location location = locationManager.getLastKnownLocation(provider);
         locationManager.requestLocationUpdates(provider, 20000, 1, this);
         if(location!=null)
                 onLocationChanged(location);
         else
                 Toast.makeText(getBaseContext(), "Location can't be retrieved",
Toast.LENGTH_SHORT).show();
          }else{
          Toast.makeText(getBaseContext(), "No Provider Found", Toast.LENGTH_SHORT).show();
      }
                this.mHandler = new Handler();
                  m_Runnable.run();

                  b1.setOnClickListener(new View.OnClickListener()
               {
                   @Override
                   public void onClick(View arg)
                     {
                           finish();
                           System.exit(0);
                     }
                  });
                   Runnable runnable = new Runnable() {
                       @Override
                       public void run() {
                          if(started) {
                       //   Toast.makeText(HomePage.this,"ho", Toast.LENGTH_SHORT).show();
                          }
```

```
                }
            };
            handler.postDelayed(runnable, 2000);
        }
@SuppressWarnings("deprecation")
private void Notify(String notificationTitle, String notificationMessage) {
 NotificationManager notificationManager = (NotificationManager)
getSystemService(NOTIFICATION_SERVICE);
 @SuppressWarnings("deprecation")
 Notification notification = new Notification(R.drawable.yc,
   "New Message", System.currentTimeMillis());

  Intent notificationIntent = new Intent(this, HomePage.class);
 PendingIntent pendingIntent = PendingIntent.getActivity(this, 0,
   notificationIntent, 0);

  notification.setLatestEventInfo(HomePage.this, notificationTitle,
   notificationMessage, pendingIntent);
 notificationManager.notify(9999, notification);
}
private final Runnable m_Runnable = new Runnable()
{
    public void run()
    {
       getusers();
    }
};
@SuppressLint("NewApi")
public void getusers()
{
        if (android.os.Build.VERSION.SDK_INT >= 9) {
                StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
                StrictMode.setThreadPolicy(policy);
        }
         Intent intent = getIntent();
         s=intent.getStringExtra("username");
         String slat = "";
         String slong = "";
         if (tlat.getText().toString().equals("Latitude"))
         {
                 slat="11.545434342";
                //tlat.setText("11.545434342");
         }
         else
         {
                 slat=tlat.getText().toString();

         }
         if (tlong.getText().toString().equals("Longitude"))
                 slong="76.45283434374";
         else
                 slong=tlong.getText().toString();
```

```
result=WebService.updateLocation(t1.getText().toString(),t4.getText().toString(),slat,slong,"updatel
ocation");

          //notification  get
         // result=WebService.getnot(s.toString(),"getnot");
          //Toast.makeText(getApplication(), result.toString(), Toast.LENGTH_SHORT).show();
         /* if(result.toString()!="")
          {
                    ednotification.setText(result.toString());
                    Notify("Meeting Confirmation",result.toString());
             HomePage.this.mHandler.postDelayed(m_Runnable,20000);
          } */

          HomePage.this.mHandler.postDelayed(m_Runnable,10000);
   }

public void onLocationChanged(Location location) {

          // Setting Current Longitude
          tlong.setText(""+location.getLongitude());

          // Setting Current Latitude
          tlat.setText(""+location.getLatitude() );
}

public void bback(View v)
{
          Intent i = new Intent(this,Usermain.class);
          i.putExtra("userid",t1.getText().toString());
          i.putExtra("Username",t4.getText().toString());
          startActivity(i);
          startActivity(i);
}

public void onProviderDisabled(String provider) {
          // TODO Auto-generated method stub
}
public void onProviderEnabled(String provider) {
          // TODO Auto-generated method stub
}
public void onStatusChanged(String provider, int status, Bundle extras) {
          // TODO Auto-generated method stub
}

}
```

MAIN ACTIVIY

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
```

```
import android.view.Menu;
import android.view.View;
public class MainActivity extends Activity {
	@Override
	protected void onCreate(Bundle savedInstanceState) {
		super.onCreate(savedInstanceState);
		setContentView(R.layout.activity_main);
	}

	public void gotoopt(View v)
	{
		Intent i = new Intent(MainActivity.this,Chooselogin.class);
		startActivity(i);
	}

	@Override
	public boolean onCreateOptionsMenu(Menu menu) {
		// Inflate the menu; this adds items to the action bar if it is present.
		getMenuInflater().inflate(R.menu.main, menu);
		return true;
	}

}
```

NEW USER

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
public class Newuser extends Activity {
	EditText e1,e2,e3,e4,e5,e6;
	 public String login;
	@Override
	protected void onCreate(Bundle savedInstanceState) {
		super.onCreate(savedInstanceState);
		setContentView(R.layout.activity_newuser);
      e1 = (EditText) findViewById(R.id.editText1);
       e2 = (EditText) findViewById(R.id.editText2);
       e3 = (EditText) findViewById(R.id.editText3);
       e4 = (EditText) findViewById(R.id.editText4);
       e5 = (EditText) findViewById(R.id.editText5);
       e6 = (EditText) findViewById(R.id.editText6);

	}
```

```
        @SuppressLint("NewApi")
        public void Newu(View arg)
   {
      if (android.os.Build.VERSION.SDK_INT >= 9) {
        StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
        StrictMode.setThreadPolicy(policy);
      }
    try {
  login =
WebService.Newuserreg(e1.getText().toString(),e2.getText().toString(),e3.getText().toString(),e4.ge
tText().toString(),e5.getText().toString(),e6.getText().toString(),"Usertbl");
            String[] str=login.split(",");

                if(str[0].equals("ok"))
                {
                   Toast.makeText(this, "Added Successfully", Toast.LENGTH_LONG).show();
                        }
                else
                {
                   Toast.makeText(getApplication(),"Already
Added",Toast.LENGTH_SHORT).show();

                }
           }

    catch (Exception e)
  {
        Toast.makeText(this, "Exception", Toast.LENGTH_LONG).show();

   }

   }
        public void gback(View arg) {

      Intent i=new Intent(this,Chooselogin.class);
      startActivity(i);

}
        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.newuser, menu);
                return true;
        }
}
```

SEND REQUEST

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
```

```
import android.annotation.SuppressLint;
import android.app.Activity;
import android.app.AlertDialog.Builder;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
@SuppressLint("NewApi")
public class Sendrequest extends Activity {
        EditText e1,e2,e3;
         public String login;
         TextView t1;
         String Userid,Serid,Serv;
                        public String[] arr1= new String[41];
                public String[] arr2= new String[41];
                public String[] arr3= new String[41];
                public String[] arr4= new String[41];
                public String[] arr5= new String[41];
                public String[] arr6= new String[41];
                public String[] arr7= new String[41];
                public int rowcount=0;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_sendrequest);
                                t1 = (TextView) findViewById(R.id.textView1);
                e1=(EditText)findViewById(R.id.editText1);
           e2=(EditText)findViewById(R.id.editText2);
           e3=(EditText)findViewById(R.id.editText3);

           Intent ii = getIntent();
                Userid = ii.getStringExtra("userid");
     t1.setText(Userid);

     Serid = ii.getStringExtra("Serid");
     e1.setText(Serid);

     Serv = ii.getStringExtra("Service");
     e2.setText(Serv);

        }
        public void Aser(View arg)
  {
     if (android.os.Build.VERSION.SDK_INT >= 9) {
        StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
        StrictMode.setThreadPolicy(policy);
     }
    try {
          login =
WebService.Addser(t1.getText().toString(),e1.getText().toString(),e2.getText().toString(),e3.getText
```

```
().toString(),"Sendreq");

            Toast.makeText(this, "Added Successfully", Toast.LENGTH_LONG).show();
                        }
    catch (Exception e)
  {
        Toast.makeText(this, "Exception", Toast.LENGTH_LONG).show();
   }    }
         public void Bhome(View arg) {
      Intent i=new Intent(this,Usermain.class);
         i.putExtra("userid",t1.getText().toString());
      startActivity(i);
}
 public void Vserp(View v)
             {
                    try{
                    if (android.os.Build.VERSION.SDK_INT >= 9) {
                                StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
                                StrictMode.setThreadPolicy(policy);
                            }
           login=WebService.getuser(e1.getText().toString(),"getserws");
           String[] listss= login.split("#");
          int xx= listss.length;
          int iRows = listss.length;
          rowcount=iRows;
         arr1 = new String[iRows];
         arr2 = new String[iRows];
         arr3 = new String[iRows];
         arr4= new String[iRows];
         arr5= new String[iRows];
                 StringBuffer buffer=new StringBuffer();
               int i=0;
               // looping through all rows and adding to list
               for (i=0;i<listss.length;i++) {
                 String[] ListItems = listss[i].toString().split(",");
                 buffer.append("Userid: " + ListItems[0].toString()+"\n");
                                buffer.append("Name: "+ListItems[1].toString()+"\n");

                                buffer.append("Address: "+ListItems[2].toString()+"\n");
                                buffer.append("Mobile: "+ListItems[3].toString()+"\n");
                                buffer.append("Email: "+ListItems[4].toString()+"\n");
                                buffer.append("\n");
               }  showMessage("Service Provider Details", buffer.toString());

                            }
               catch(Exception e){

                   Toast.makeText(getApplicationContext(), "No
Record",Toast.LENGTH_SHORT).show();
                    }
             }
          public void showMessage(String title,String message)
```

```
            {
                Builder builder=new Builder(this);
                builder.setCancelable(true);
                builder.setTitle(title);
                builder.setMessage(message);
                builder.show();
        }
        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.sendrequest, menu);
                return true;
        }}
```

SERVICE PROVIDER LOGIN

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
@SuppressLint("NewApi")
public class Servicerlogin extends Activity {
         EditText e1,e2;
         public String login;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_servicerlogin);
                 e1=(EditText)findViewById(R.id.editText1);
            e2=(EditText)findViewById(R.id.editText2);
        }
        public void Slog(View arg)
   {
      try {
          if (android.os.Build.VERSION.SDK_INT >= 9) {
                StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
                StrictMode.setThreadPolicy(policy);         }
login=WebService.ServiceLoginWS(e1.getText().toString(),e2.getText().toString(),"Authenticateser
vicer");
              String[] str=login.split(",");

              if(str[0].equals("ok"))
              {             String stname=str[1].toString();
                 Toast.makeText(getApplication(),"Login Success",Toast.LENGTH_SHORT).show();
                 Intent i=new Intent(this,Servicermain.class);
                 i.putExtra("userid",e1.getText().toString());
               //  i.putExtra("stuname",stname);
```

```
                startActivity(i);
            }
            else
            {
                Toast.makeText(getApplication(),"Login Failed",Toast.LENGTH_SHORT).show();
                e1.setText("");
                e2.setText("");
            }       }
    catch (Exception e)
    {       }   }
        public void newuser(View v)
        {
                Intent i = new Intent(this,Servicerreg.class);
                startActivity(i);
        }
        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.servicerlogin, menu);
                return true;      }}
```

SERVICE PROVIDER MAIN PAGE

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.app.AlertDialog.Builder;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;

@SuppressLint("NewApi")
public class Servicermain extends Activity {
        TextView t1;
         public String login,login1;
         String Userid;
                public String[] arr1= new String[41];
                public String[] arr2= new String[41];
                public String[] arr3= new String[41];
                public String[] arr4= new String[41];
                public String[] arr5= new String[41];
                public String[] arr6= new String[41];
                public String[] arr7= new String[41];
                public String[] arr8= new String[41];
                public String[] arr9= new String[41];
                public int rowcount=0;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
```

```
                setContentView(R.layout.activity_servicermain);
                t1 = (TextView) findViewById(R.id.textView1);
                Intent ii = getIntent();
                Userid = ii.getStringExtra("userid");
        t1.setText(Userid);
        }
        public void Aser(View v)
        {
                Intent i = new Intent(this,Addservice.class);
                i.putExtra("userid",t1.getText().toString());
                startActivity(i);
        }
        public void gotoserreq(View v)
        {
                Intent i = new Intent(this,Viewcomplaints.class);
                i.putExtra("userid",t1.getText().toString());
                startActivity(i);
        }
        public void slogo(View v)
        {
                Intent i = new Intent(this,Chooselogin.class);
                startActivity(i);
        }
         public void Viewpays(View v)
           {
                try{
                if (android.os.Build.VERSION.SDK_INT >= 9) {
                                StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
                                StrictMode.setThreadPolicy(policy);
                        }

         login=WebService.getuser(t1.getText().toString(),"getserwss");
         String[] listss= login.split("#");
         int xx= listss.length;

         int iRows = listss.length;
         rowcount=iRows;
        arr1 = new String[iRows];
        arr2 = new String[iRows];
        arr3 = new String[iRows];
        arr4= new String[iRows];
        arr5= new String[iRows];
        arr6= new String[iRows];
        arr7= new String[iRows];
        arr8= new String[iRows];
        arr9= new String[iRows];
                 StringBuffer buffer=new StringBuffer();
              int i=0;
              // looping through all rows and adding to list
              for (i=0;i<listss.length;i++) {
                String[] ListItems = listss[i].toString().split(",");
                buffer.append("id: " + ListItems[0].toString()+"\n");
```

```
                                buffer.append("Requser: "+ListItems[1].toString()+"\n");
                                buffer.append("Servicerid: "+ListItems[2].toString()+"\n");
                                buffer.append("Service: "+ListItems[3].toString()+"\n");
                                buffer.append("Description: "+ListItems[4].toString()+"\n");
                                buffer.append("Date: "+ListItems[5].toString()+"\n");
                                buffer.append("Reply: "+ListItems[6].toString()+"\n");
                                buffer.append("Payment: "+ListItems[7].toString()+"\n");
                                buffer.append("Status: "+ListItems[8].toString()+"\n");
                                buffer.append("\n");
                        }

                           showMessage("Service Details", buffer.toString());
                                        }
                        catch(Exception e){

                             Toast.makeText(getApplicationContext(), "No
Record",Toast.LENGTH_SHORT).show();
                        }
                    }
                 public void showMessage(String title,String message)
                    {
                        Builder builder=new Builder(this);
                        builder.setCancelable(true);
                        builder.setTitle(title);
                        builder.setMessage(message);
                        builder.show();
                        }
                @Override
                public boolean onCreateOptionsMenu(Menu menu) {
                        // Inflate the menu; this adds items to the action bar if it is present.
                        getMenuInflater().inflate(R.menu.servicermain, menu);
                        return true;
                }}
```

SERVICE REGISTER

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
public class Servicerreg extends Activity {
        EditText e1,e2,e3,e4,e5,e6;
         public String login;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_servicerreg);
```

```
                e1 = (EditText) findViewById(R.id.editText1);
      e2 = (EditText) findViewById(R.id.editText2);
      e3 = (EditText) findViewById(R.id.editText3);
      e4 = (EditText) findViewById(R.id.editText4);
      e5 = (EditText) findViewById(R.id.editText5);
      e6 = (EditText) findViewById(R.id.editText6);
         }
                public void sreg(View arg)
  {
     if (android.os.Build.VERSION.SDK_INT >= 9) {
        StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
        StrictMode.setThreadPolicy(policy);
      }
     try {
          login =
WebService.Servicerreg(e1.getText().toString(),e2.getText().toString(),e3.getText().toString(),e4.get
Text().toString(),e5.getText().toString(),e6.getText().toString(),"Servicerregi");
                String[] str=login.split(",");
              if(str[0].equals("ok"))
              {
                 Toast.makeText(this, "Added Successfully", Toast.LENGTH_LONG).show();
                     }
              else
              {
                 Toast.makeText(getApplication(),"Already
Added",Toast.LENGTH_SHORT).show();
                     }  }
    catch (Exception e)
 {
        Toast.makeText(this, "Exception", Toast.LENGTH_LONG).show();
  }    }\
        public void ggback(View arg) {
      Intent i=new Intent(this,Chooselogin.class);
      startActivity(i);
}       @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.servicerreg, menu);
                return true;
        }}
```

USER LOGIN

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;
```

```
public class Userlogin extends Activity {
        EditText e1,e2;
        public String login;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
                super.onCreate(savedInstanceState);
                setContentView(R.layout.activity_userlogin);
            e1=(EditText)findViewById(R.id.editText1);
             e2=(EditText)findViewById(R.id.editText2);
        }
        @SuppressLint("NewApi")
        public void ulog(View arg)
   {
         try {
         if (android.os.Build.VERSION.SDK_INT >= 9) {
                StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
                StrictMode.setThreadPolicy(policy);
              }
login=WebService.invokeLoginWS(e1.getText().toString(),e2.getText().toString(),"Authenticateuser
");
              String[] str=login.split(",");
              if(str[0].equals("ok"))
              {
                String stname=str[1].toString();
                Toast.makeText(getApplication(),"Login Success",Toast.LENGTH_SHORT).show();
                Intent i=new Intent(this,Usermain.class);
                i.putExtra("userid",e1.getText().toString());
               i.putExtra("Username",stname);
                startActivity(i);
              }
              else              {
                Toast.makeText(getApplication(),"Login Failed",Toast.LENGTH_SHORT).show();
                e1.setText("");
                e2.setText("");
              }       }
      catch (Exception e)
      {      }    }
        public void newuser(View v)
        {
                Intent i = new Intent(this,Newuser.class);
                startActivity(i);
        }
        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.userlogin, menu);
                return true;  }}
```

USER MAIN PAGE

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.app.Activity;
```

```
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.TextView;
public class Usermain extends Activity {
	TextView t1,t2;
	 public String login,login1;
	 String Userid,Uname;
	@Override
	protected void onCreate(Bundle savedInstanceState) {
		super.onCreate(savedInstanceState);
		setContentView(R.layout.activity_usermain);

		t1 = (TextView) findViewById(R.id.textView1);
		t2 = (TextView) findViewById(R.id.textView2);

		Intent ii = getIntent();
		Userid = ii.getStringExtra("userid");
		Uname = ii.getStringExtra("Username");
      t1.setText(Userid);
      t2.setText(Uname);
	}
	public void gotoloc(View v)
	{
		Intent i = new Intent(this,HomePage.class);
		//i.putExtra("vehicleno",s1.getSelectedItem().toString());
		i.putExtra("userid",t1.getText().toString());
	i.putExtra("Username",t2.getText().toString());
		startActivity(i);
	}
	public void gotoserv(View v)
	{
		Intent i = new Intent(this,Viewservice.class);
		//i.putExtra("vehicleno",s1.getSelectedItem().toString());
		i.putExtra("userid",t1.getText().toString());
	i.putExtra("Username",t2.getText().toString());
		startActivity(i);
	}
	public void gotopay(View v)
	{
		Intent i = new Intent(this,Viewouting.class);
		i.putExtra("userid",t1.getText().toString());
	i.putExtra("Username",t2.getText().toString());
		startActivity(i);
	}
	public void ulogo(View v)
	{
		Intent i = new Intent(this,Chooselogin.class);
		startActivity(i);
	}
	@Override
	public boolean onCreateOptionsMenu(Menu menu) {
		// Inflate the menu; this adds items to the action bar if it is present.
```

```
		getMenuInflater().inflate(R.menu.usermain, menu);
		return true;
	}
}
```

VIEW SERVICES

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.Spinner;
import android.widget.TextView;
public class Viewservice extends Activity {
	TextView t1,t2;
	 public String login,login1;
	 String Userid,Uname;
	 Spinner s1,s2;
	@Override
	protected void onCreate(Bundle savedInstanceState) {
		super.onCreate(savedInstanceState);
		setContentView(R.layout.activity_viewservice);
		t1 = (TextView) findViewById(R.id.textView1);
		t2 = (TextView) findViewById(R.id.textView2);

		 s1 = (Spinner) findViewById(R.id.spinner1);

		Intent ii = getIntent();
		Userid = ii.getStringExtra("userid");
		Uname = ii.getStringExtra("Username");

      t1.setText(Userid);
      t2.setText(Uname);
	}

	public void Bhome(View v)
	{
		Intent i = new Intent(this,Usermain.class);
		 i.putExtra("userid",t1.getText().toString());
		 i.putExtra("Username",t2.getText().toString());
		startActivity(i);
	}

	public void Aserv(View v)
	{
		Intent i = new Intent(this,Addattendance.class);
		 i.putExtra("Service",s1.getSelectedItem().toString());
		 i.putExtra("userid",t1.getText().toString());
		 i.putExtra("Username",t2.getText().toString());
		startActivity(i);
	}
```

```
	@Override
	public boolean onCreateOptionsMenu(Menu menu) {
		// Inflate the menu; this adds items to the action bar if it is present.
		getMenuInflater().inflate(R.menu.viewservice, menu);
		return true;
	}

}
```

VIEW SERVICE REQUEST

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Context;
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.BaseAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;
import android.widget.AdapterView.OnItemClickListener;
public class Viewservicerequest extends Activity {
	TextView t1;
	 public String login,login1;
	 String Userid;
		public int rowcount=0;
		public ListView lv;
		public String[] id= new String[41];
		public String[] sta= new String[41];
		public String[] s3= new String[41];
		public String[] s4= new String[41];
		public String[] s5= new String[41];
		public String[] s6= new String[41];
	@SuppressLint("NewApi")
	@Override
	protected void onCreate(Bundle savedInstanceState) {
		super.onCreate(savedInstanceState);
		setContentView(R.layout.activity_viewservicerequest);

		t1 = (TextView) findViewById(R.id.textView1);

		Intent ii = getIntent();
		Userid = ii.getStringExtra("userid");
      t1.setText(Userid);

	lv = (ListView) findViewById(R.id.listView1);
```

```
      //
                  if (android.os.Build.VERSION.SDK_INT >= 9) {
                                    StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
                                    StrictMode.setThreadPolicy(policy);
                              }
                        try {
          login=WebService.viewservreq(t1.getText().toString(),"Viewservicereq");
          // Toast.makeText(getApplication(),login,Toast.LENGTH_LONG).show();
          String[] listss= login.split("#");
          int xx= listss.length;

          int iRows = listss.length;
          rowcount=iRows;

         id = new String[iRows];
         sta = new String[iRows];
         s3 = new String[iRows];
         s4 = new String[iRows];
         s5 = new String[iRows];
         s6 = new String[iRows];
  int i=0;
  // looping through all rows and adding to list
  for (i=0;i<listss.length;i++) {
     String[] ListItems = listss[i].toString().split(",");

     id[i]=ListItems[0].toString();
     sta[i]=ListItems[1].toString();
      //   i++;
  }
 lv.setAdapter(new ImageAdapter(getApplicationContext()));
 lv.setOnItemClickListener(new OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> parent, View view, int position, long id) {
          TextView bugid=(TextView) view.findViewById(R.id.p1);
          TextView sta=(TextView) view.findViewById(R.id.p2);
          //TextView price=(TextView) view.findViewById(R.id.tvStatus);
    //     String url =WebService.URLimg +imgpath[position];

    //     Toast.makeText(UserHome.this,tv.getText(), Toast.LENGTH_LONG).show();
       Intent ij = new Intent(Viewservicerequest.this, Updaterequest.class);
      // ij.putExtra("Serid",bugid.getText());
      //ij.putExtra("Service",sta.getText());
     // ij.putExtra("userid",t1.getText().toString());
       startActivityForResult(ij,500);
    }
 });
   }     catch (Exception e)
                  {
                        Toast.makeText(this, "No Data", Toast.LENGTH_LONG).show();
                   }     }
          private class ImageAdapter extends BaseAdapter
          {
```

```
		private Context ctx;
		private TextView tv1;
		private TextView tv2;
		private TextView tv3;
		private TextView tv4;
		private TextView tv5;
		private TextView tv6;
		private LayoutInflater layoutInflater;
		public ImageAdapter(Context context)
		{
			this.ctx= context;
			layoutInflater = (LayoutInflater)
ctx.getSystemService(LAYOUT_INFLATER_SERVICE);
		}
		@Override
		public int getCount() {
			// TODO Auto-generated method stub
			return rowcount;
		}
		@Override
		public Object getItem(int position) {
			// TODO Auto-generated method stub
			return position;
		}
		@Override
		public long getItemId(int position) {
			// TODO Auto-generated method stub
			return position;
		}
		@Override
		public View getView(int position, View convertView, ViewGroup parent) {

				ViewGroup onerow = (ViewGroup)
layoutInflater.inflate(R.layout.customerequest, null);

				tv1 = (TextView) onerow.findViewById(R.id.p1);
				tv2 = (TextView) onerow.findViewById(R.id.p2);

				tv1.setText(id[position]);
				tv2.setText(sta[position]);
				tv3.setText(s3[position]);
				tv4.setText(s4[position]);
				tv5.setText(s5[position]);
				tv6.setText(s6[position]);
				return onerow;
		}
	}
	@Override
	public boolean onCreateOptionsMenu(Menu menu) {
		// Inflate the menu; this adds items to the action bar if it is present.
		getMenuInflater().inflate(R.menu.viewservicerequest, menu);
		return true;
	}
```

```
}
```
UPDATE REQUEST

```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.app.AlertDialog.Builder;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
@SuppressLint("NewApi")
public class Updaterequest extends Activity {
	TextView t1,t2,t3;
	EditText e1,e2,e3;
	String Userid,cid,uid;
	 public String login;
		public String[] arr1= new String[41];
		public String[] arr2= new String[41];
		public String[] arr3= new String[41];
		public String[] arr4= new String[41];
		public String[] arr5= new String[41];
		public String[] arr6= new String[41];
		public String[] arr7= new String[41];
		public int rowcount=0;
	@Override
	protected void onCreate(Bundle savedInstanceState) {
		super.onCreate(savedInstanceState);
		setContentView(R.layout.activity_updaterequest);
		t1 = (TextView) findViewById(R.id.textView1);
		t2 = (TextView) findViewById(R.id.textView2);
		t3 = (TextView) findViewById(R.id.textView3);

		e1=(EditText)findViewById(R.id.editText1);
	   e2=(EditText)findViewById(R.id.editText2);
	   e3=(EditText)findViewById(R.id.editText3);

		Intent ii = getIntent();
		Userid = ii.getStringExtra("userid");
      t1.setText(Userid);

      cid = ii.getStringExtra("cid");
      t2.setText(cid);

      uid = ii.getStringExtra("uidd");
      t3.setText(uid);
      if (android.os.Build.VERSION.SDK_INT >= 9) {
                              StrictMode.ThreadPolicy policy = new
```

```
StrictMode.ThreadPolicy.Builder().permitAll().build();
                                StrictMode.setThreadPolicy(policy);
          }
           login=WebService.getlocation(t3.getText().toString(),"getlocation");
           if(!login.equals("not OK") & !login.equals(""))
           {
                  e3.setText(login);
           }
           else
           {
                   Toast.makeText(getApplication(),"No Data
Found",Toast.LENGTH_SHORT).show();
                   //e1.setText("No Data Found");

           }
          }

          @SuppressLint("NewApi")
          public void requpdate(View arg)
   {
      if (android.os.Build.VERSION.SDK_INT >= 9) {
          StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
          StrictMode.setThreadPolicy(policy);
       }

     try {
            login =
WebService.UpdateService(t2.getText().toString(),e1.getText().toString(),"Updatereq");

            Toast.makeText(this, "Added Successfully", Toast.LENGTH_LONG).show();

                  }

    catch (Exception e)
  {
          Toast.makeText(this, "Exception", Toast.LENGTH_LONG).show();

   }

   }              public void ggback(View arg) {

      Intent i=new Intent(this,Servicermain.class);
         i.putExtra("userid",t1.getText().toString());
      startActivity(i);

}
          public void vuser(View v)
            {
                  try{
                  if (android.os.Build.VERSION.SDK_INT >= 9) {
                                StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
```

```
                        StrictMode.setThreadPolicy(policy);
                    }

        login=WebService.getuser(t3.getText().toString(),"getuserws");

        String[] listss= login.split("#");
        int xx= listss.length;

        int iRows = listss.length;
        rowcount=iRows;

       arr1 = new String[iRows];
       arr2 = new String[iRows];
       arr3 = new String[iRows];
       arr4= new String[iRows];
       arr5= new String[iRows];

            StringBuffer buffer=new StringBuffer();
          int i=0;
          // looping through all rows and adding to list
          for (i=0;i<listss.length;i++) {
            String[] ListItems = listss[i].toString().split(",");
            buffer.append("Userid: " + ListItems[0].toString()+"\n");
                        buffer.append("Name: "+ListItems[1].toString()+"\n");

                        buffer.append("Address: "+ListItems[2].toString()+"\n");
                        buffer.append("Mobile: "+ListItems[3].toString()+"\n");
                        buffer.append("Email: "+ListItems[4].toString()+"\n");
                        buffer.append("\n");
          }
                showMessage("User Details", buffer.toString());
                        }
          catch(Exception e){

             Toast.makeText(getApplicationContext(), "No
Record",Toast.LENGTH_SHORT).show();
              }
        }
       public void showMessage(String title,String message)
        {
            Builder builder=new Builder(this);
            builder.setCancelable(true);
            builder.setTitle(title);
            builder.setMessage(message);
            builder.show();
            }



        public void Addpay(View arg)
        {
          if (android.os.Build.VERSION.SDK_INT >= 9) {
            StrictMode.ThreadPolicy policy = new
```

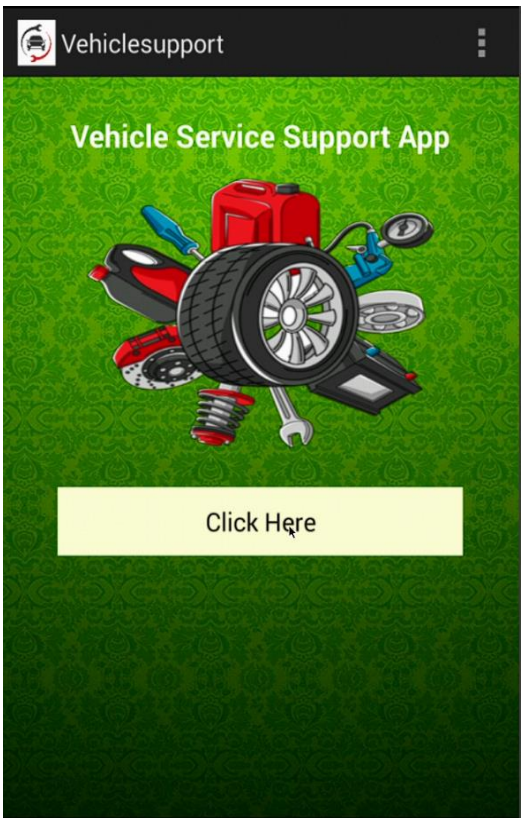
```
StrictMode.ThreadPolicy.Builder().permitAll().build();
                StrictMode.setThreadPolicy(policy);
             }

            try {

                  login =
WebService.UpdateService(t2.getText().toString(),e2.getText().toString(),"Updateamt");

                  Toast.makeText(this, "Added Successfully", Toast.LENGTH_LONG).show();
                              }

          catch (Exception e)
        {
              Toast.makeText(this, "Exception", Toast.LENGTH_LONG).show();

          }
          }
        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
              // Inflate the menu; this adds items to the action bar if it is present.
              getMenuInflater().inflate(R.menu.updaterequest, menu);
              return true;
        }
}
```

UPDATE PAYMENT

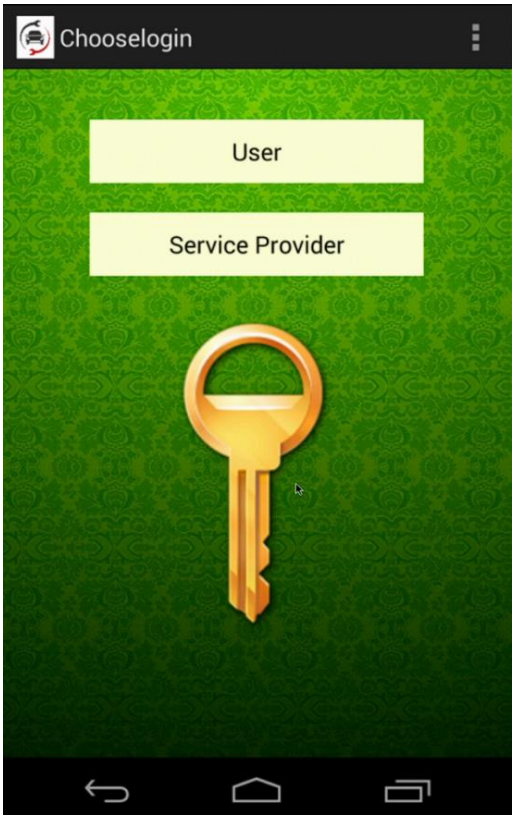
```
package com.example.vehiclesupport;
import android.os.Bundle;
import android.os.StrictMode;
import android.annotation.SuppressLint;
import android.app.Activity;
import android.content.Intent;
import android.view.Menu;
import android.view.View;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;
public class Updatepayment extends Activity {
         EditText e1,e2;
         public String login;
         String cid,amt,Userid;
         TextView t1,t2;
        @Override
        protected void onCreate(Bundle savedInstanceState) {
              super.onCreate(savedInstanceState);
              setContentView(R.layout.activity_updatepayment);

              t1 = (TextView) findViewById(R.id.textView1);
               e1=(EditText)findViewById(R.id.editText1);
          e2=(EditText)findViewById(R.id.editText2);
              Intent ii = getIntent();
```

```
                Userid = ii.getStringExtra("userid");
                t1.setText(Userid);

                cid = ii.getStringExtra("oid");
            e1.setText(cid);

                amt = ii.getStringExtra("amt");
                e2.setText(amt);
        }
        @SuppressLint("NewApi")
        public void payh(View arg)
   {
      if (android.os.Build.VERSION.SDK_INT >= 9) {
        StrictMode.ThreadPolicy policy = new
StrictMode.ThreadPolicy.Builder().permitAll().build();
        StrictMode.setThreadPolicy(policy);
      }

     try {

          login =
WebService.UpdateService(e1.getText().toString(),e2.getText().toString(),"Updatesta");

          String[] str=login.split(",");

              if(str[0].equals("ok"))
              {
                 Toast.makeText(this, "Added Successfully", Toast.LENGTH_LONG).show();

              }
              else
              {
                 Toast.makeText(getApplication(),"Already Paid",Toast.LENGTH_SHORT).show();
    }
                 }
   catch (Exception e)
  {
        Toast.makeText(this, "Exception", Toast.LENGTH_LONG).show();
   }
   }
        public void gohome(View arg) {

      Intent i=new Intent(this,Usermain.class);
        i.putExtra("userid",t1.getText().toString());
      startActivity(i);
}
        @Override
        public boolean onCreateOptionsMenu(Menu menu) {
                // Inflate the menu; this adds items to the action bar if it is present.
                getMenuInflater().inflate(R.menu.updatepayment, menu);
                return true;
        }
}
```

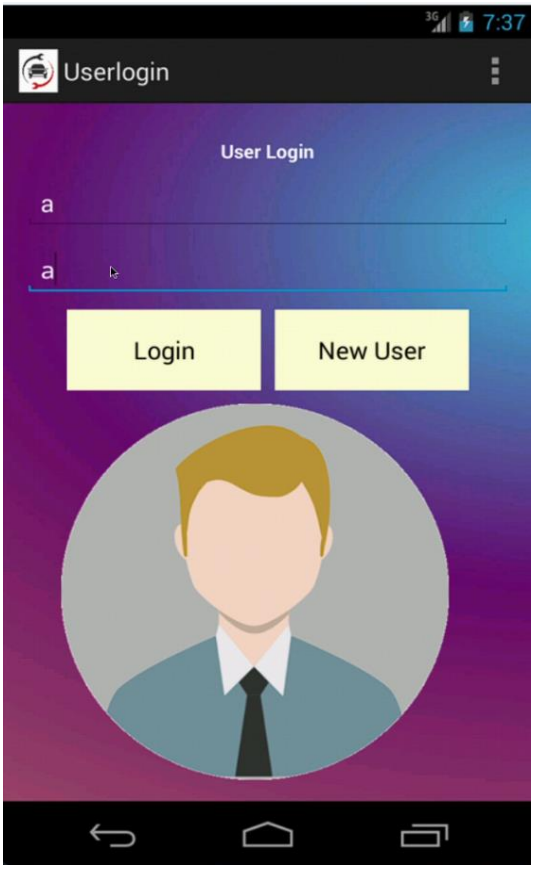
A.2 SCREEN SHOTS



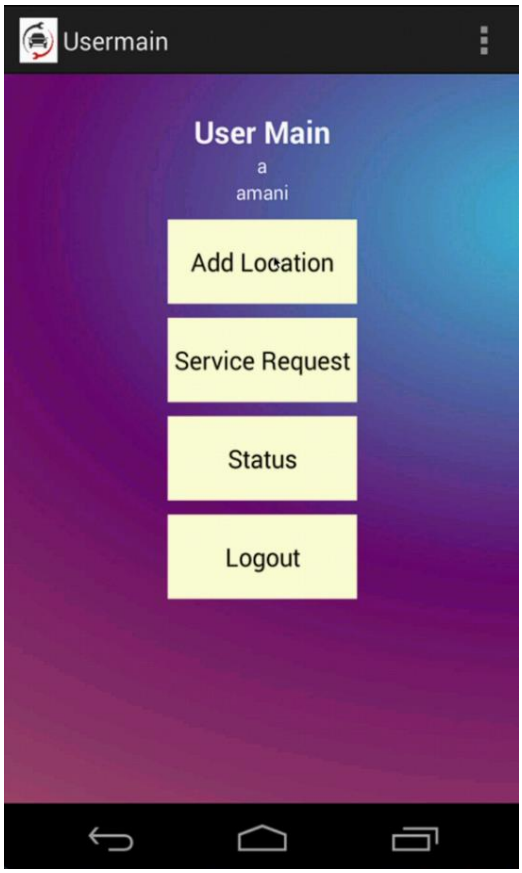
A.2.1 APP ENTRY PAGE



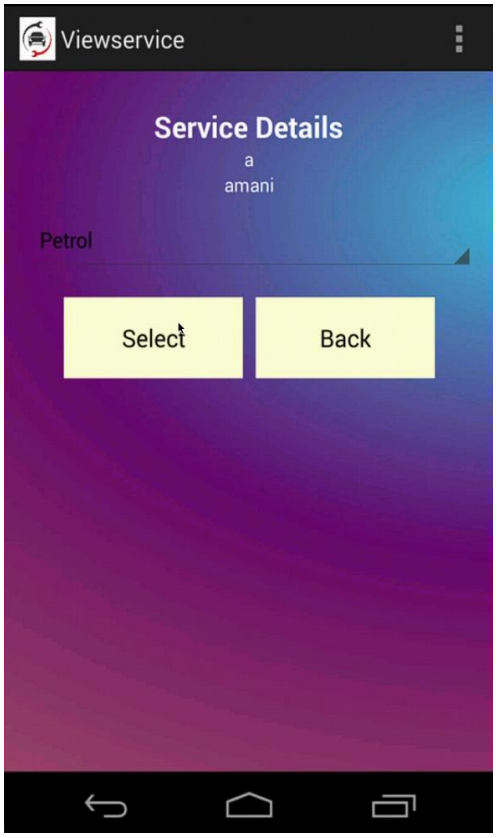
A.2.2 CHOOSE LOGIN PAGE



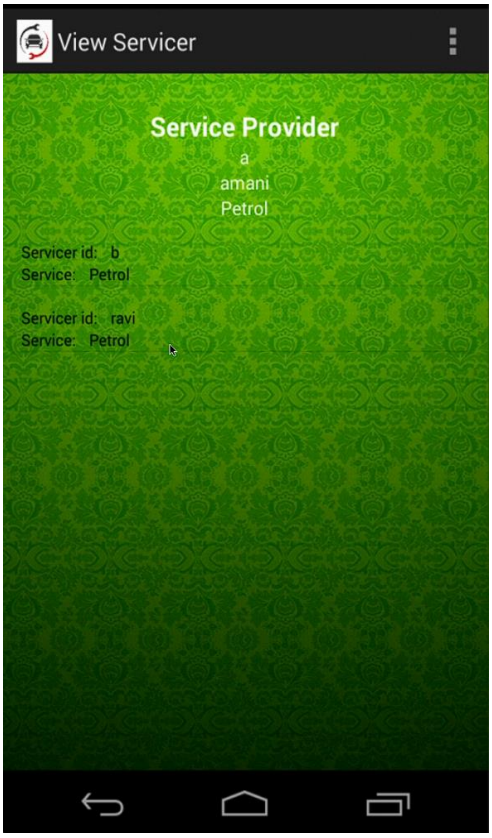
A.2.3 USER LOGIN PAGE



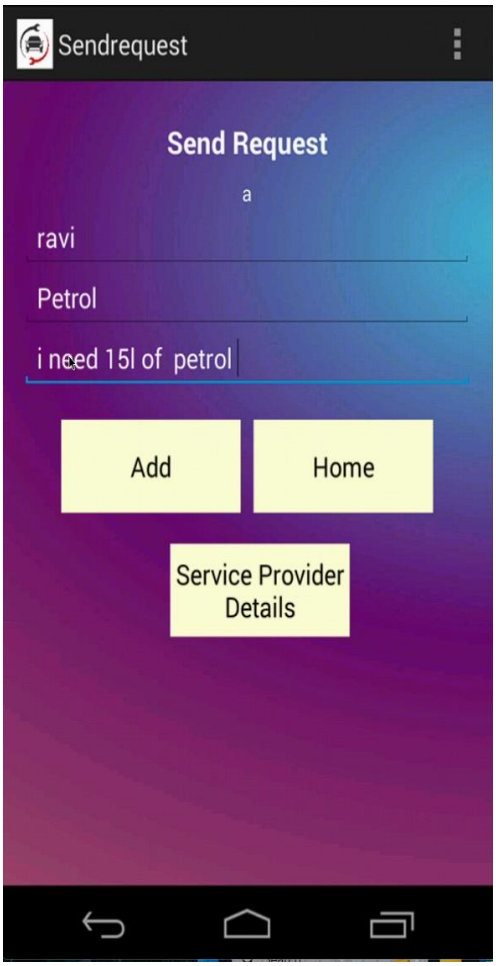
A.2.4 DASHBOARD PAGE



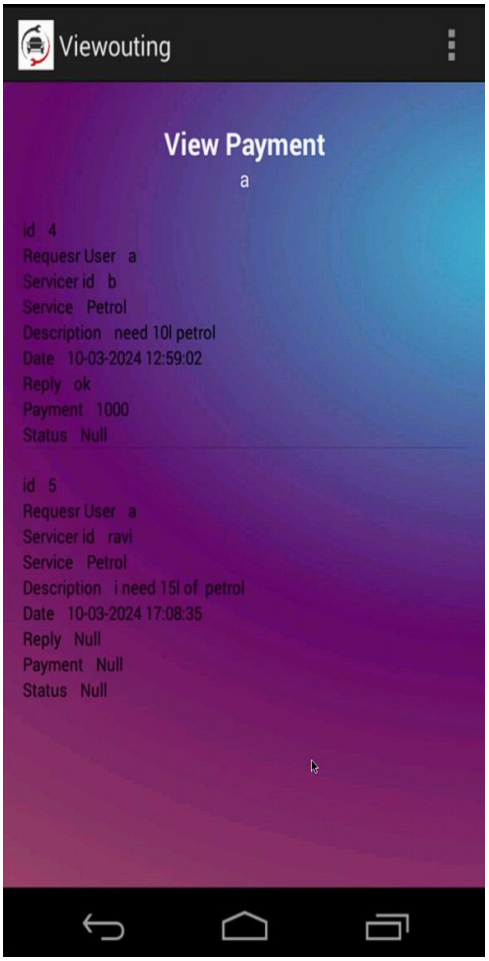
A.2.5 VIEW SERVICE PAGE



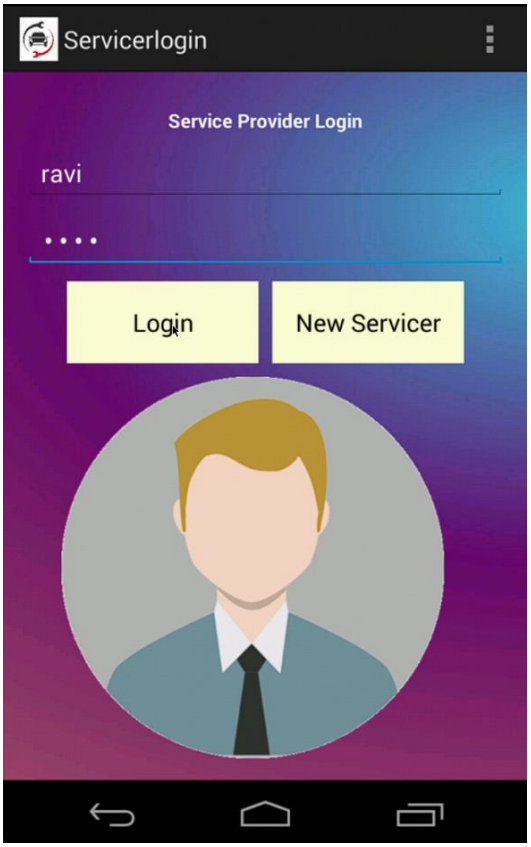
A.2.6 SERVICE PROVIDER PAGE



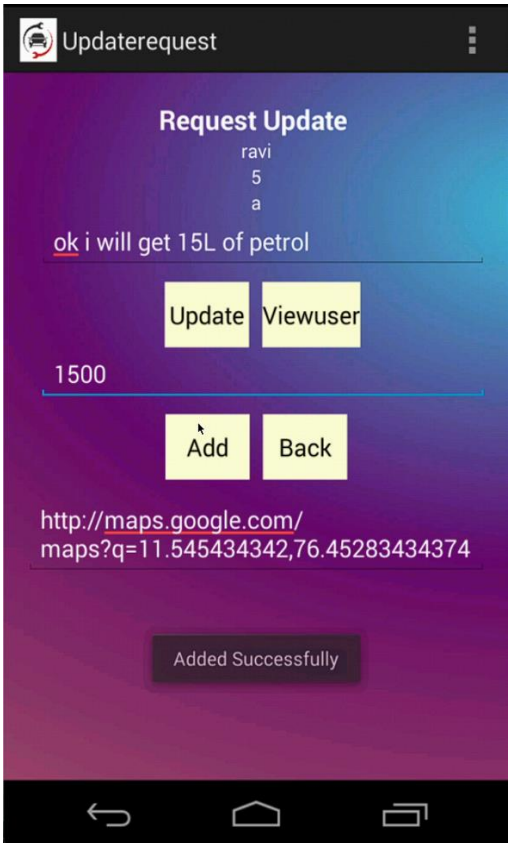
A.2.7 SEND REQUEST PAGE



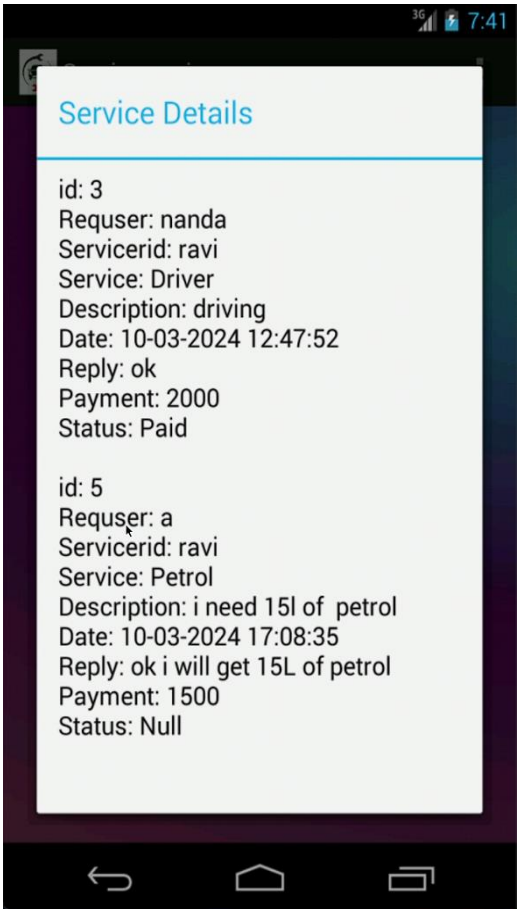
A.2.8 VIEW PAYMENT PAGE



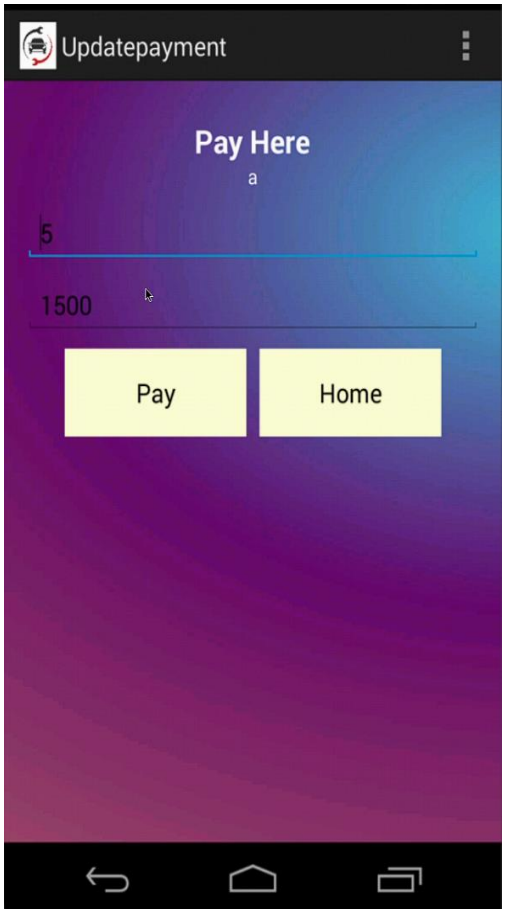
A.2.9 SERVICE PROVIDER LOGIN PAGE



A.2.10 UPDATE REQUEST PAGE



A.2.11 VIEW SERVICE DETAILS PAGE



A.2.12 UPDATE PAYMENT PAGE

DATABASE IMAGES:

	Userid	Pwd	Fullname	Addr	Mob	Email
▶	a	a	amani	cbe	9629595205	ravimca37@gma...
	nanda	nanda	nandakumar	cbe	9003502338	nanda@gmail.com

A.2.13 User table

	Userid	Pwd	Fullname	Addr	Mob	Email
▶	b	b	b	cbe	9629595205	ravimca37@gma...
	ravi	ravi	ravi	cbe	9003502338	ravi@gmail.com

A.2.14 Service provider

	id	Userid	Service
▶	6	b	Petrol
	7	b	Workshop
	8	b	Driver
	9	ravi	Petrol
	10	ravi	Workshop
	11	ravi	Driver

A.2.15 Add service

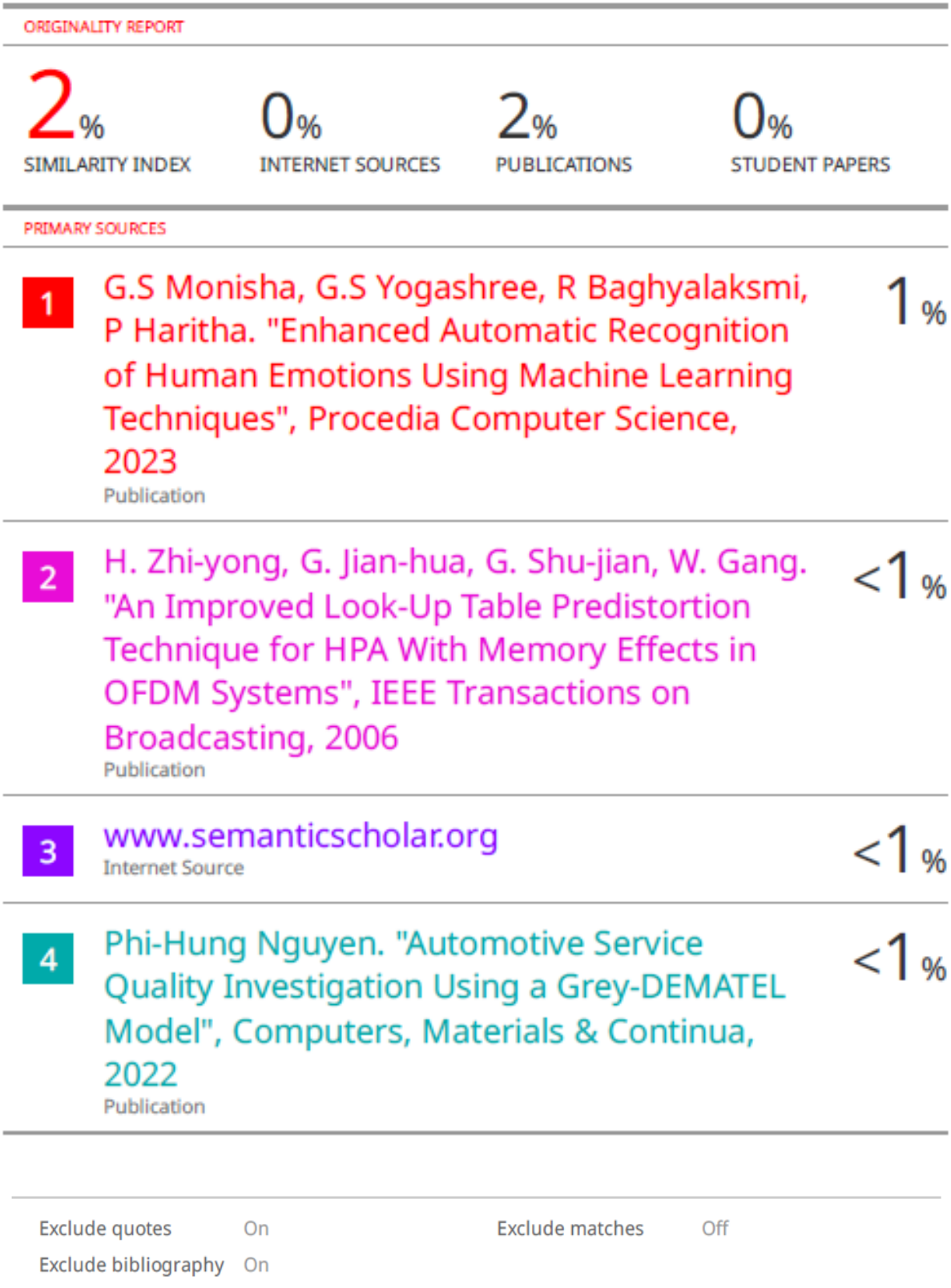
	Userid	Uname	latitude	longitude	dt
▶	a	amani	11.545434342	76.45283434374	10-03-2024 17:...
	nanda	nandakumar	11.545434342	76.45283434374	10-03-2024 12:...

A.2.16 Car location

	id	Requser	Servicerid	Service	Descrip	Sdate	Reply	Payment
▶	3	nanda	ravi	Driver	driving	10-03-2024 12:...	ok	2000
	4	a	b	Petrol	need 10l petrol	10-03-2024 12:...	ok	1000
	5	a	ravi	Petrol	i need 15l of pe...	10-03-2024 17:...	ok i will get 15L ...	1500

A.2.17 Service Request

A.3 PLAGIARISM REPORT



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2. Does the title clearly reflects the content and outcomes in the manuscript?
Yes

3. Research Design, Methods, Analysis of data, Interpretation of results, and conclusion are satisfactory
Yes

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7. Comments to Author

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1.What internal functions does the suggested system have?
2.Which of the two approaches you have suggested to get the desired outcome—an algorithm or a tool—is used?
3.What mobile technology is suggested to be employed in order to get the outcome

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Best regards,

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