

CSE3001 - SOFTWARE ENGINEERING

(J Component)

PROJECT REPORT

“SHARE THE FARE”

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ABSTRACT

This document is a project report of the Software Engineering Project – Share the Fare. In the introduction, the need of the app is mentioned. Why do we need an app with such functionalities, what are the problems with the existing systems, all of that is discussed in the introduction.

Further, all of the existing systems are elaborated and all the loopholes in the existing systems are highlighted. The drawbacks of the existing systems are also enlisted and the need for better systems with fulfilling functionalities is stated.

In the proposed systems section, all the requirements are listed and accordingly the working of the proposed system is discussed. Most of the problems, that occur while using the existing system that are being solved in the proposed system and the way all the things are managed are mentioned.

The proposed system section also consists of the details regarding communication phase, analysis phase, design phase, implementation phase as well as testing.

At last, the conclusion and the references are mentioned.

CHAPTER 1

INTRODUCTION

Generally, when people travel from one place to another via some public transport, they expect it to reach their destinations on time as well as it must have reasonable fare. Using a bus or local train can be cheap but at the same time one cannot tell that it will serve within a particular time frame.

For example, a train from Chennai to New Delhi won't take 8 hours even if you want that. Because the minimum time of travel may be 36 hours. It can't be any less.

So, as an alternative for local travelling, one prefers taxis and cab services over the public bus transport or the metro trains. But, if slightly longer distance is considered, the time to reach destination is a way much faster than the local buses, but the fare for that ride also becomes too high to bear for that distance.

Here, the very high prices of the taxis become an issue. What if the person wanting to travel by cabs and taxis to catch up with the speed, can afford to pay a fourth or a fifth of the price he/she is currently paying. To make that possible one can cab-pool his cab with other people.

But again, the problem is, how does one know if anyone from his place is willing to go to the same place at the same time. That's exactly what 'Share the Fare' does.

The app takes the details of every traveller and shows all the useful of that to every other traveller, so that, the next time ever if anyone uses the app, one can find fellow passengers who want to travel to the same place.

It is completely different from the share taxis that are operational at present. A typical share taxi is like a local bus (it goes everywhere dropping and picking everyone), plus it will charge more.

CHAPTER 2

EXISTING SYSTEMS

Existing system consist of private taxis/cabs or share taxis.

Let's assume that the distance of travel is 25 km. A private taxi on an average will charge Rs 20.0/km, considering all the 24 hours in a day where unexpected high fares like Rs 30-40/km during the night-time or seasonal rush are also taken into account.

That sums up to Rs 500.0 for the total ride (which is obviously too much if only one person has to travel). It becomes a problem not only for any regular user who wants the service daily or weekly, but also for the ones who travel occasionally.

Let's assume that people are ready to pay even half the price but the full price is too much for them. Even if they get a chance to cab-pool their ride with at least one other guy, both of them will be saving as good as half the fare.

And, if the existing system of private cabs is becoming just too expensive, people won't have any problem in switching to the alternative that we are providing.

Let's assume the case of a share taxi. A typical share taxi will also charge Rs 15.0/km on an average, taking into consideration, all odds. The average can lowest hit to Rs 12.0/km and no less.

So, the minimum and the maximum fares can be Rs 300.0 and Rs 375.0. Moreover, the share taxi is picking and dropping other people also. It can be considered as a small version of local buses. Thus, time becomes a major issue in this case.

If someone wants to catch a flight or a train, he/she is less likely to rely on share taxis and is more likely to opt for private taxis, that again are very costly to be bearable.

Due to such cases happening very often, there arises the need of something that enables the people to cab-pool their rides and hence

effectively save money and insure that they reach the destined location on time.

Cab-pooling can be, in all ways, a better option for the people. It saves time and money of the customers.

A point to be noted in case of share taxis is that, the share taxis will have a route. The taxi will be having one final destination and one final pickup point. It will be moving in that particular route only, but it may take many sub-routes in between. Thus, it will have many pickup and destination points.

Whereas, in cab-pooling, a private cab is booked and the fare is shared among all the passengers travelling. Here, there is only one pickup and one common destination. Thus, the cab won't stop anywhere in between and also would not take any unnecessary sub-routes. This is again another disadvantage of the existing system.

CHAPTER 3

PROPOSED SYSTEM

The basic idea is to cab-pool, so that the fare is shared and the money is saved. But the problem is how will a person be able to find another person going to the same destination and at the same time. It is practically impossible to ask every individual stranger about his destination and time of travel and to know whether that particular individual is willing to share the cab or not.

To counter this problem, an internet-based mobile application can be made where the individuals wanting to share their cab-rides can put up their travel details and they can view other individuals who are also willing to travel to the same destination and at the same time. This way, individuals can find peers for cab-pooling.

3.1 Communication Phase

Here are some functional requirements that our internet-based mobile application named 'Share the Fare' app is going to provide:

- **Registration:** Every user has to first register before logging in into the application. The user registration will be form – based activity that the user will need to feed in the basic information so that he/she can be uniquely identifiable. User will need to fill the following data:
 - **Name**
 - **Mobile Number**
 - **Email**
 - **Password**
- **Login:** Every user has to login before any further procedures. Login form will ask the user his/her registered email address and password to confirm authenticity.
 - **Email**
 - **Password**

- **Pickup:** After logging in, the login session will start, where all the details about the travelling will be collected from the user. One of them is the pickup location. The pickup location can be the current address of the person that can be found out via GPS of his/her handset or if one wants to chose another pickup location, he/she can do that also.
 - **Google Maps Activity:** This activity provides current location of the user. User can choose other destination also.
- **Destination:** This is similar to that of pickup. Another maps activity will enable to feed in the location and get that location as destination location.
- **Date & Time:** A date and time picker facility is provided where the date and time of travelling can be selected.
- **View List Option:** After having filled all the information, one can click here to view other people along with their contact details. Thus, he/she may get the people with whom the ride can be shared.
- **Logout:** It enables users to log out of the system after they are done with the application.

3.2 Analysis Phase

In the analysis phase, all the non-functional requirements are checked upon:

- Access Security
- Accessibility
- Availability
- Confidentiality
- Efficiency
- Integrity
- Reliability
- Safety
- Sustainability
- Flexibility
- Maintainability
- Scalability

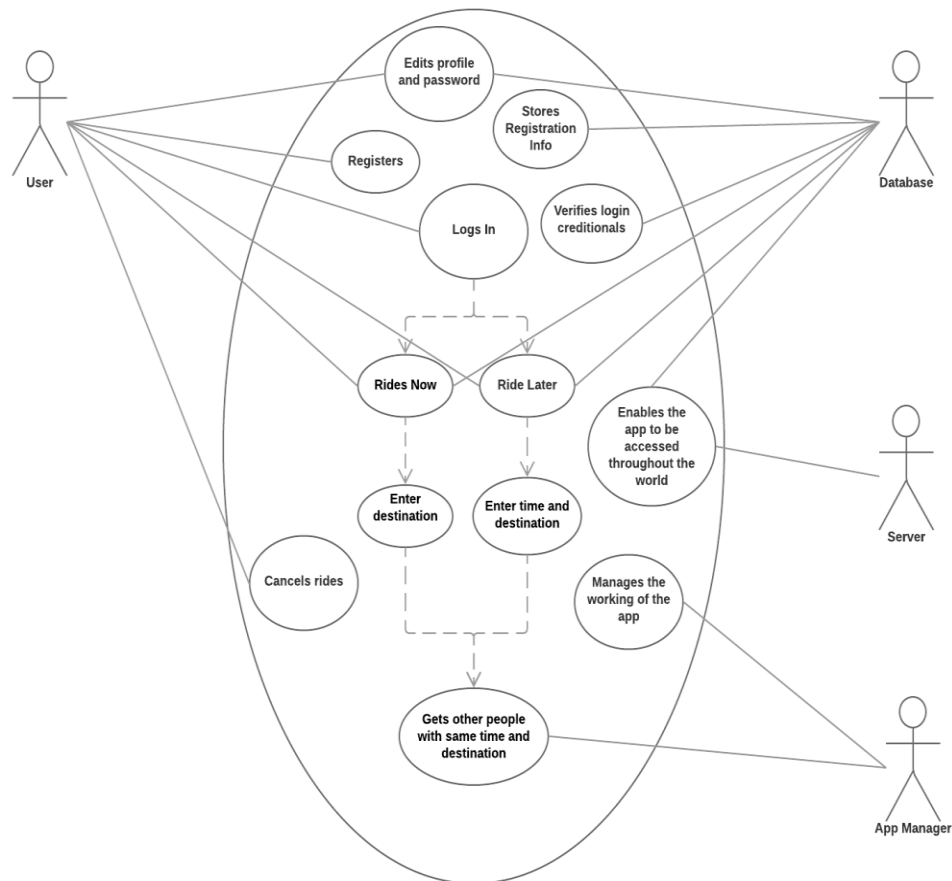
- Portability
- Reusability

3.3 Design Phase

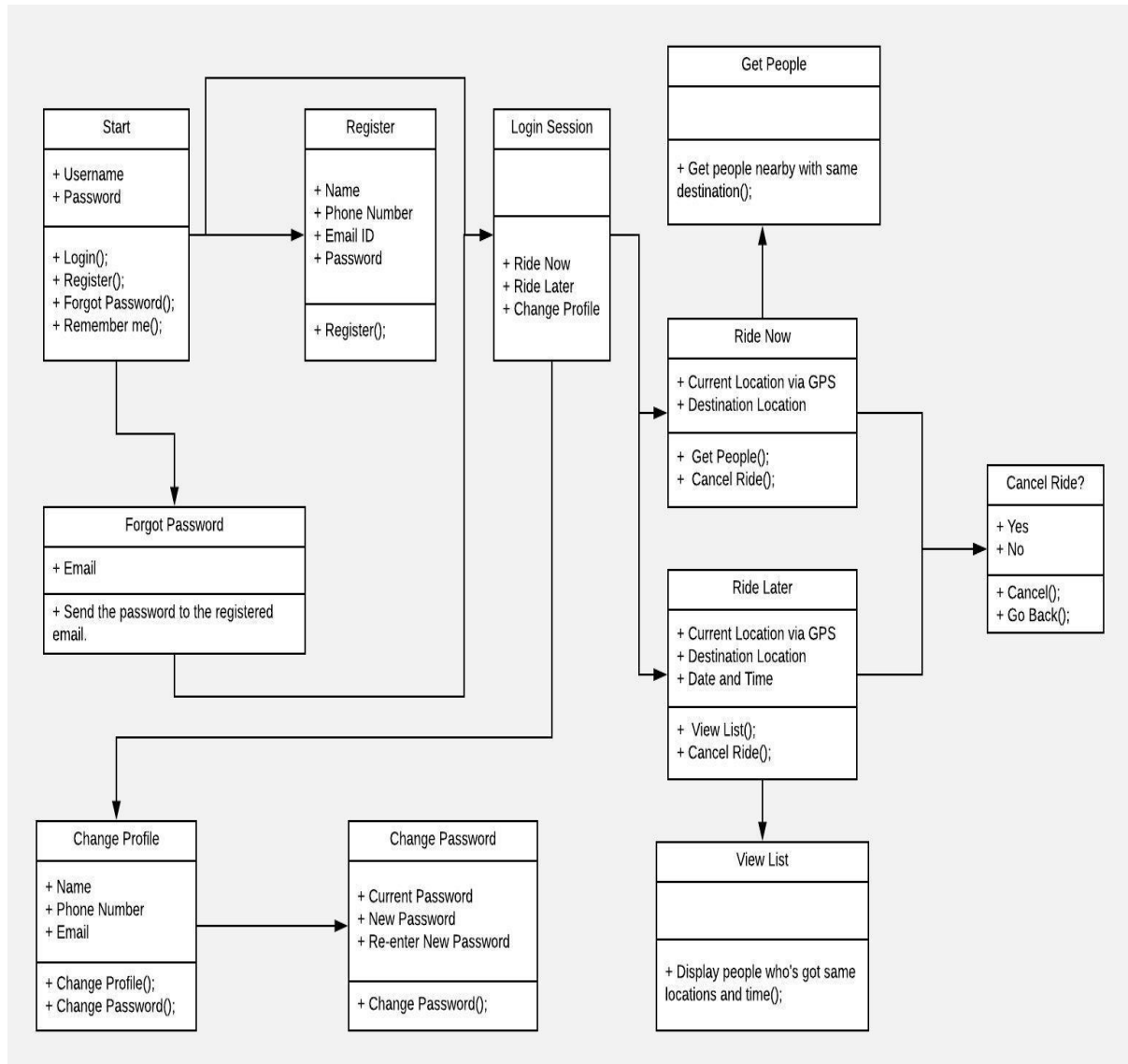
1. Use Case Diagram:

BASIC USE CASE DIAGRAM

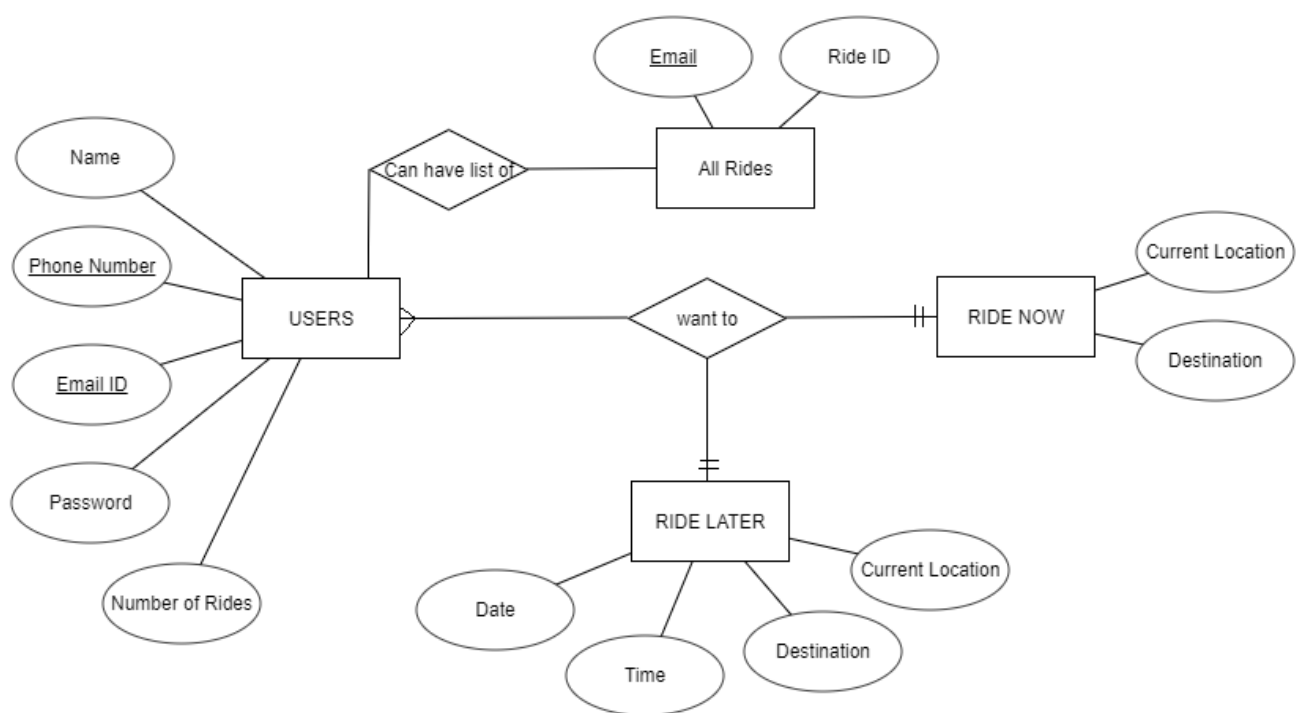
Shantanu Mahale | October 10, 2018



2. Class Diagram:



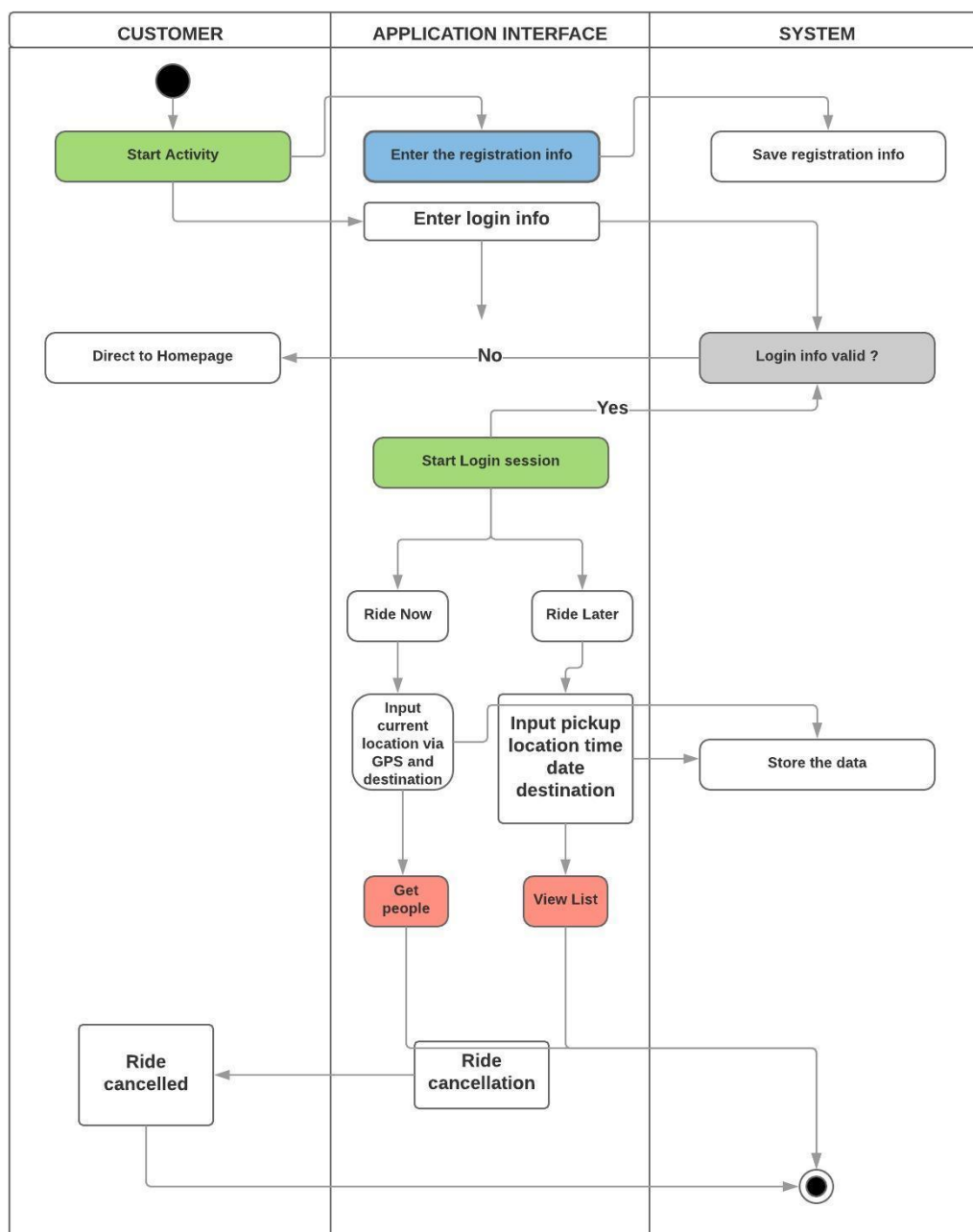
3. Entity – Relationship Diagram:



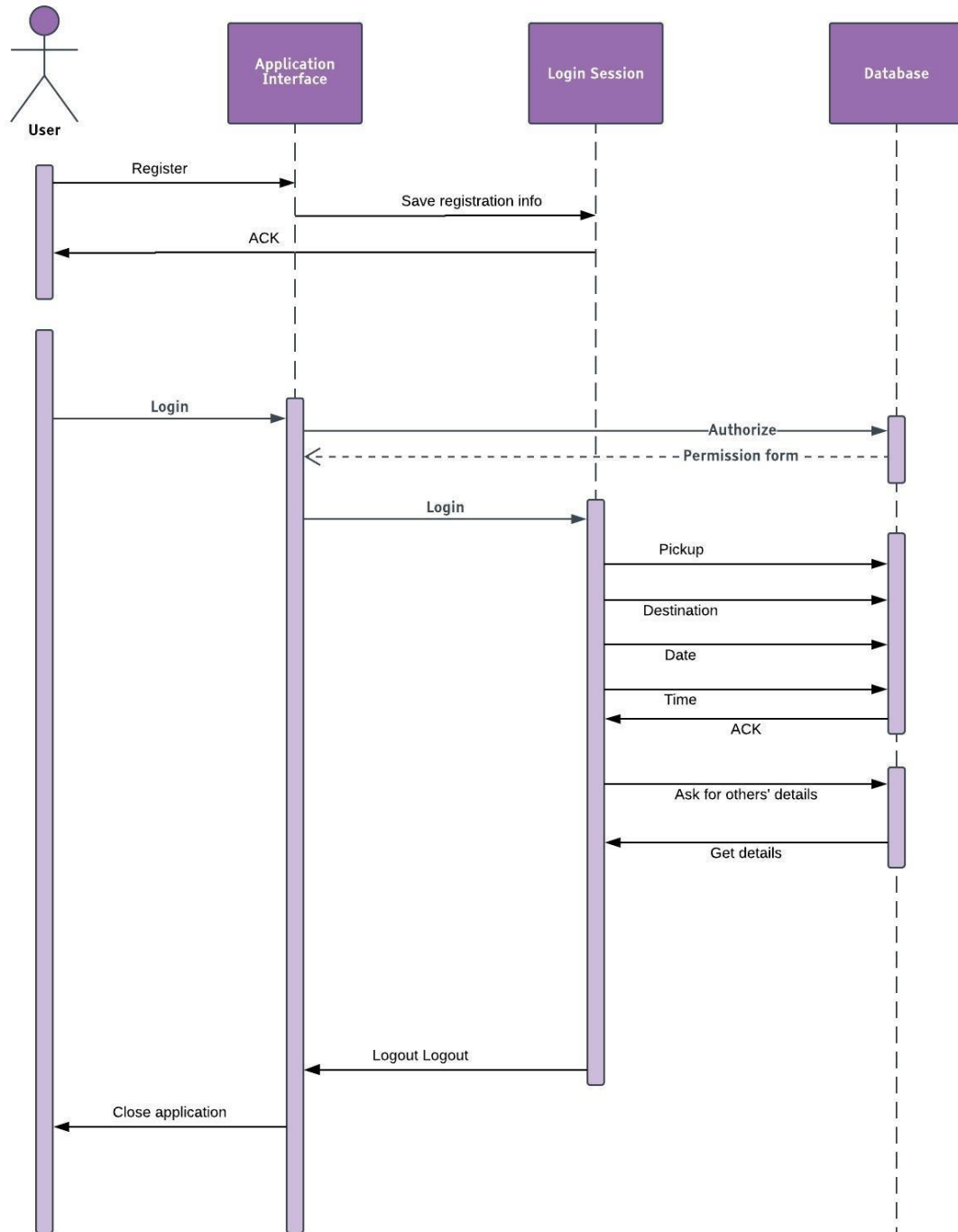
4. Activity Diagram:

SWIMLANE ACTIVITY DIAGRAM

galaxyrubyverizon | October 10, 2018



5. Sequence Diagram



3.4 Implementation Phase

1. Home Page: Login

```
1      package com.sharethefare.sharethefare;
2
3      import android.content.Context;
4      import android.content.Intent;
5      import android.os.Vibrator;
6      import android.support.design.widget.TextInputLayout;
7      import android.app.Activity;
8      import android.os.Bundle;
9      import android.support.v7.app.AppCompatActivity;
10     import android.view.View;
11     import android.widget.Button;
12     import android.widget.EditText;
13     import android.widget.Toast;
14
15     import java.util.regex.Matcher;
16     import java.util.regex.Pattern;
17
18     public class start extends AppCompatActivity {
19
20         private Vibrator vib;
21         DBH myDb;
22
23         public static EditText email_login;
24         EditText pass_login;
25
26         Button login;
27
28         Button register;
29
30         private session session;
31
32         public void init(){
33             register.setOnClickListener((view) -> {
34                 Intent reg = new Intent( packageContext: start.this, registerr.class);
35                 startActivity(reg);
36             });
37         }
38
39         @Override
40         protected void onCreate(Bundle savedInstanceState) {
41             super.onCreate(savedInstanceState);
42             setContentView(R.layout.activity_start);
43
44             session = new session( ctx: this);
45
46             email_login = (EditText) findViewById(R.id.email_login);
47             pass_login = (EditText) findViewById(R.id.pass_login);
48             login = (Button) findViewById(R.id.login_button);
```

```

50 login = (Button)findViewById(R.id.login_button);
51 register = (Button)findViewById(R.id.register);
52
53 vib = (Vibrator) getSystemService(Context.VIBRATOR_SERVICE);
54
55 myDb = new DBH( context: this);
56
57 init();
58
59 login.setOnClickListener((view) - {
60     Intent log = new Intent( packageContext: start.this,after_login.class);
61     if(!validateEmail(email_login.getText().toString().trim())){
62         vib.vibrate( milliseconds: 120);
63         email_login.setError("Invalid Email");
64         email_login.requestFocus();
65     }
66     else {
67         if(!validatePassword(pass_login.getText().toString())) {
68             vib.vibrate( milliseconds: 120);
69             pass_login.setError("Invalid Password");
70             pass_login.requestFocus();
71         }
72         else{
73             boolean isInserted = myDb.check(
74                 email_login.getText().toString(), pass_login.getText().toString() );
75             if(isInserted == true) {
76                 session.setLoggedIn(true);
77                 startActivity(log);
78             }
79             else
80             {
81                 Toast.makeText( context: start.this, text: "Invalid Credentials!",
82                     Toast.LENGTH_LONG).show();
83             }
84         }
85     }
86 }
87
88 });
89
90 }
91
92
93
94 protected boolean validateEmail(String email) {
95     String emailPattern = "^[_A-Za-z0-9-\\]+(\\.[_A-Za-z0-9-]+)*@"
96         + "[A-Za-z0-9-]+(\\.[_A-Za-z0-9-]+)*(\\.[_A-Za-z]{2,})$";
97
98     Pattern pattern = Pattern.compile(emailPattern);
99     Matcher matcher = pattern.matcher(email);
100
101     return matcher.matches();
102 }
103
104 protected boolean validatePassword(String password) {
105     if(password!=null && password.length()>1) {
106         return true;
107     } else {
108         return false;
109     }
110 }
111 }
112

```

2. Register

```
1 package com.sharethefare.sharethefare;
2
3 import java.util.regex.Matcher;
4 import java.util.regex.Pattern;
5
6 import android.content.Context;
7 import android.content.Intent;
8 import android.os.Bundle;
9 import android.os.Vibrator;
10 import android.support.v7.app.AppCompatActivity;
11 import android.view.View;
12 import android.view.View.OnClickListener;
13 import android.widget.Button;
14 import android.widget.EditText;
15 import android.widget.Toast;
16
17 public class registerr extends AppCompatActivity{
18
19     private Vibrator vib;
20     DBH myDb;
21
22     @Override
23     protected void onCreate(Bundle savedInstanceState) {
24         super.onCreate(savedInstanceState);
25         setContentView(R.layout.activity_register);
26
27         final EditText name = (EditText) findViewById(R.id.names);
28         final EditText mobile = (EditText) findViewById(R.id.mobiles);
29         final EditText email = (EditText) findViewById(R.id.emails);
30         final EditText password = (EditText) findViewById(R.id.pwds);
31         final Button register = (Button) findViewById(R.id.register);
32
33         vib = (Vibrator) getSystemService(Context.VIBRATOR_SERVICE);
34
35         myDb = new DBH( context: this);
36
37         register.setOnClickListener(new OnClickListener() {
38
39             @Override
40             public void onClick(View v) {
41                 if(!validateName(name.getText().toString().trim())){
42                     vib.vibrate( milliseconds: 120);
43                     name.setError("Invalid Name");
44                     name.requestFocus();
45                 }
46                 else{
47                     if(!validateMobile(mobile.getText().toString().trim())){
48                         vib.vibrate( milliseconds: 120);
49                         mobile.setError("Invalid Mobile Number");
50                         mobile.requestFocus();
51                     }
52                     else{
53                         if(!validateEmail(email.getText().toString())) {
54                             vib.vibrate( milliseconds: 120);
55                             email.setError("Invalid Email");
56                             email.requestFocus();
57                         }
58                         else{
59                             if (!validatePassword(password.getText().toString())) {
60                                 vib.vibrate( milliseconds: 120);
61                                 password.setError("Invalid Password");
62                                 password.requestFocus();
63                             }
64                             else{
65                                 boolean isInserted = myDb.insertData(name.getText().toString(),
66                                     mobile.getText().toString(),
67                                     email.getText().toString(), password.getText().toString() );
68                                 if(isInserted == true) {
69                                     Toast.makeText( context: registerr.this,
70                                         text: "You have registered successfully!",
71                                         Toast.LENGTH_LONG).show();
72                                     Intent inte = new Intent( packageContext: registerr.this, start.class);
```



```

73         startActivity(inte);
74     }
75     else
76     {
77         Toast.makeText( context: registerr.this,
78             text: "You have not registered successfully!",
79             Toast.LENGTH_LONG).show();
80     }
81 }
82 }
83 }
84 }
85 }
86 }
87 });
88
89
90 }
91 protected boolean validateName(String name) {
92     if(name!=null && name.length()>1) {
93         return true;
94     } else {
95         return false;
96     }
97 }
98
107 protected boolean validateEmail(String email) {
108     String emailPattern = "^[_A-Za-z0-9-\\]+(\\.[_A-Za-z0-9-]+)*@"
109         + "[A-Za-z0-9-]+(\\.[_A-Za-z0-9-]+)*\\.([A-Za-z]{2,})$";
110
111     Pattern pattern = Pattern.compile(emailPattern);
112     Matcher matcher = pattern.matcher(email);
113
114     return matcher.matches();
115 }
116
117 protected boolean validatePassword(String password) {
118     if(password!=null && password.length()>1) {
119         return true;
120     } else {
121         return false;
122     }
123 }
124 }

```

3. Session

```

1 package com.sharethefare.sharethefare;
2
3 import android.content.Context;
4 import android.content.SharedPreferences;
5
6
7 public class session {
8     SharedPreferences prefs;
9     SharedPreferences.Editor editor;
10    Context ctx;
11
12    @ public session(Context ctx) {
13        this.ctx = ctx;
14        prefs = ctx.getSharedPreferences( S: "share_the_fare", Context.MODE_PRIVATE);
15        editor = prefs.edit();
16    }
17
18    public void setLoggedIn(boolean loggedin) {
19        editor.putBoolean( S: "loggedInmode", loggedin);
20        editor.commit();
21    }
22
23    public boolean loggedIn() { return prefs.getBoolean( S: "loggedInmode", b: false); }
24 }

```

4. After logging in

```
1 package com.sharethefare.sharethefare;
2
3 import java.util.Calendar;
4
5 import android.app.DatePickerDialog;
6 import android.app.TimePickerDialog;
7 import android.content.Context;
8 import android.content.Intent;
9 import android.database.Cursor;
10 import android.os.Bundle;
11 import android.os.Vibrator;
12 import android.support.v7.app.AlertDialog;
13 import android.support.v7.app.AppCompatActivity;
14 import android.view.View;
15 import android.view.View.OnClickListener;
16 import android.widget.Button;
17 import android.widget.DatePicker;
18 import android.widget.EditText;
19 import android.widget.TimePicker;
20 import android.widget.Toast;
21
22 public class after_login extends AppCompatActivity{
23
24     private Vibrator vib;
25     DBH myDb;
26     private session session;
27
28     EditText destin,date,time;
29     Button dest,date_button,time_button;
30     private int mYear, mMonth, mDay, mHour, mMinute;
31     String ax,ay;
32
33     @Override
34     protected void onCreate(Bundle savedInstanceState) {
35         super.onCreate(savedInstanceState);
36         setContentView(R.layout.activity_logined);
37
38         date_button = findViewById(R.id.date_button);
39         time_button = findViewById(R.id.time_button);
40
41         date = (EditText) findViewById(R.id.date_text);
42         time = (EditText) findViewById(R.id.time_text);
43         final Button add = (Button) findViewById(R.id.add_button);
44         final Button view = findViewById(R.id.view_button);
45         final String emailz=start.email_login.getText().toString();
46
47         final Button logout = findViewById(R.id.logout);
48         vib = (Vibrator) getSystemService(Context.VIBRATOR_SERVICE);
49         session = new session( this);
50         if(!session.loggedin()){
51             logout();
52         }
53         myDb = new DBH( context: this);
54
55         EditText pickup = findViewById(R.id.pickup_text);
56         Button pick = findViewById(R.id.pickup_button);
57
58         destin = findViewById(R.id.destination_text);
59         dest = findViewById(R.id.destination_button);
60
61         pick.setOnClickListener((view) -> {
62             Intent reg = new Intent( packageContext: after_login.this, MapsActivity.class);
63             startActivity(reg);
64         });
65         pickup.setText(MapsActivity.strrr);
66
67         logout.setOnClickListener((view) -> { logout(); });
68
69         date_button.setOnClickListener((view) -> { getdate(); });
70
71         time_button.setOnClickListener((view) -> { gettime(); });
72
73         add.setOnClickListener((v) -> {
```

```

92      @Override
93      public void onClick(View v) {
94          boolean isInserted = myDb.insertDate(ax, ay, emailz );
95          if(isInserted == true) {
96              Toast.makeText( context: after_login.this, text: "Sorry! Request failed.",
97                  Toast.LENGTH_LONG).show();
98          }
99          else
100          {
101              Toast.makeText( context: after_login.this,
102                  text: "Your date and time of travel has been registered.",
103                  Toast.LENGTH_LONG).show();
104          }
105      }
106  }
107  });
108
109  view.setOnClickListener((view) -> {
110      Intent vi = new Intent( packageContext: after_login.this, viewlist.class);
111      startActivity(vi);
112  });
113
114  dest.setOnClickListener((view) -> {
115      Intent gantavya = new Intent( packageContext: after_login.this, MapsActivity2.class);
116      startActivity(gantavya);
117  });
118
119  destin.setText(MapsActivity2.des_loc);
120  }
121
122  private void logout(){
123      session.setLoggedin(false);
124      finish();
125      startActivity(new Intent( packageContext: after_login.this, start.class));
126  }
127
128  private void getdate() {
129      // Get Current Date
130      final Calendar c = Calendar.getInstance();
131      mYear = c.get(Calendar.YEAR);
132      mMonth = c.get(Calendar.MONTH);
133      mDay = c.get(Calendar.DAY_OF_MONTH);
134
135      DatePickerDialog datePickerDialog = new DatePickerDialog( context: this,
136          (view, year, monthOfYear, dayOfMonth) -> {
137              date.setText(dayOfMonth + "-" + (monthOfYear + 1) + "-" + year);
138              ax=dayOfMonth + "-" + (monthOfYear + 1) + "-" + year;
139          }, mYear, mMonth, mDay);
140      datePickerDialog.show();
141  }
142
143  private void gettime(){
144      final Calendar c = Calendar.getInstance();
145      mHour = c.get(Calendar.HOUR_OF_DAY);
146      mMinute = c.get(Calendar.MINUTE);
147
148      // Launch Time Picker Dialog
149      TimePickerDialog timePickerDialog = new TimePickerDialog( context: this,
150          (view, hourOfDay, minute) -> {
151              time.setText(hourOfDay + ":" + minute);
152              ay=hourOfDay + ":" + minute;
153          }, mHour, mMinute, is24HourView: false);
154      timePickerDialog.show();
155  }
156
157  public void showMessage(String title,String Message){
158      AlertDialog.Builder builder = new AlertDialog.Builder( context: this);
159      builder.setCancelable(true);
160      builder.setTitle(title);
161      builder.setMessage(Message);
162      builder.show();
163  }
164  }

```

5. Pickup

```
1 package com.sharethefare.sharethefare;
2
3 import android.content.Intent;
4 import android.content.pm.PackageManager;
5 import android.location.Address;
6 import android.location.Geocoder;
7 import android.location.Location;
8 import android.location.LocationListener;
9 import android.location.LocationManager;
10 import android.support.v4.app.ActivityCompat;
11 import android.support.v4.app.FragmentActivity;
12 import android.os.Bundle;
13 import android.util.Log;
14 import android.view.View;
15 import android.widget.Button;
16 import android.widget.Toast;
17
18 import com.google.android.gms.maps.CameraUpdateFactory;
19 import com.google.android.gms.maps.GoogleMap;
20 import com.google.android.gms.maps.OnMapReadyCallback;
21 import com.google.android.gms.maps.SupportMapFragment;
22 import com.google.android.gms.maps.model.LatLng;
23 import com.google.android.gms.maps.model.MarkerOptions;
24
25 import java.io.IOException;
26 import java.util.List;
27
28 public class MapsActivity extends FragmentActivity implements OnMapReadyCallback {
29
30     private GoogleMap mMap;
31     LocationManager locationManager;
32     DBH myDb;
33
34     public static String strrr;
35
36     @Override
37     public void onCreate(Bundle savedInstanceState) {
38
39         myDb = new DBH(context: this);
40
41         super.onCreate(savedInstanceState);
42         setContentView(R.layout.activity_maps);
43         // Obtain the SupportMapFragment and get notified when the map is ready to be used.
44         SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()
45             .findFragmentById(R.id.map);
46         mapFragment.getMapAsync(new OnMapReadyCallback() {
47             @Override
48             public void onMapReady(GoogleMap googleMap) {
49                 locationManager = (LocationManager) getSystemService(LOCATION_SERVICE);
50                 if (ActivityCompat.checkSelfPermission(context: this,
51                     android.Manifest.permission.ACCESS_FINE_LOCATION) != PackageManager.PERMISSION_GRANTED
52                     && ActivityCompat.checkSelfPermission(context: this,
53                     android.Manifest.permission.ACCESS_COARSE_LOCATION) != PackageManager.PERMISSION_GRANTED)
54                 {
55                     // TODO: Consider calling
56                     // ActivityCompat#requestPermissions
57                     // here to request the missing permissions, and then overriding
58                     // public void onRequestPermissionsResult(int requestCode, String[] permissions,
59                     // int[] grantResults)
60                     // to handle the case where the user grants the permission. See the documentation
61                     // for ActivityCompat#requestPermissions for more details.
62                     return;
63                 }
64
65                 locationManager.requestLocationUpdates(LocationManager.NETWORK_PROVIDER,
66                     0, 0, new LocationListener() {
67                         @Override
68                         public void onLocationChanged(Location location) {
69                             double latitude = location.getLatitude();
70                             double longitude = location.getLongitude();
71                             LatLng latLng = new LatLng(latitude, longitude);
72                             List<Address> address = null;
73                             Geocoder geocoder = new Geocoder(getApplicationContext());
```

```

74         try {
75             List<Address> addressList = geocoder.getFromLocation(latitude, longitude, maxResults: 1);
76             strrr = addressList.get(0).getAddressLine( index: 0);
77             mMap.addMarker(new MarkerOptions().position(latLng).title(strrr));
78             mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(latLng, 16.5f));
79
80
81             Log.d( tag: "abcd",strrr);
82         } catch (IOException e) {
83             e.printStackTrace();
84         }
85
86     }
87
88     @Override
89     public void onStatusChanged(String provider, int status, Bundle extras) {
90
91     }
92
93     @Override
94     public void onProviderEnabled(String provider) {
95
96     }
97
98     @Override
99     public void onProviderDisabled(String provider) {
100
101     }
102
103 });
104 final Button ok = (Button) findViewById(R.id.button1);
105
106 ok.setOnClickListener((view) -> {
107     Intent reg = new Intent( packageContext: MapsActivity.this, after_login.class);
108     String emailz=start.email_login.getText().toString();
109     boolean isInserted = myDb.insertData1(strrr,emailz);
110
111     if(isInserted == true)
112     {
113         Toast.makeText( context: MapsActivity.this,
114             text: "Your current location could not be accessed!", Toast.LENGTH_LONG).show();
115     }
116     else
117     {
118         Toast.makeText( context: MapsActivity.this,
119             text: "Your current location has been accessed!", Toast.LENGTH_LONG).show();
120     }
121
122     startActivity(reg);
123 });
124 }
125
126
127
128 /**
129  * Manipulates the map once available.
130  * This callback is triggered when the map is ready to be used.
131  * This is where we can add markers or lines, add listeners or move the camera. In this case,
132  * we just add a marker near Sydney, Australia.
133  * If Google Play services is not installed on the device, the user will be prompted to install
134  * it inside the SupportMapFragment. This method will only be triggered once the user has
135  * installed Google Play services and returned to the app.
136  */
137 @Override
138 public void onMapReady(GoogleMap googleMap) {
139     mMap = googleMap;
140
141     // Add a marker in Sydney and move the camera
142     LatLng sydney = new LatLng(-34, 151);
143     mMap.addMarker(new MarkerOptions().position(sydney).title("Marker in Sydney"));
144     mMap.moveCamera(CameraUpdateFactory.newLatLng(sydney));
145 }
146 }
147

```

7. Destination

```
1 package com.sharetrefare.sharethefare;
2
3 import android.Manifest;
4 import android.content.Intent;
5 import android.content.pm.PackageManager;
6 import android.location.Address;
7 import android.location.Geocoder;
8 import android.location.Location;
9 import android.os.Bundle;
10 import android.support.annotation.NonNull;
11 import android.support.annotation.Nullable;
12 import android.support.v4.app.ActivityCompat;
13 import android.support.v4.content.ContextCompat;
14 import android.support.v7.app.AppCompatActivity;
15 import android.util.Log;
16 import android.view.KeyEvent;
17 import android.view.View;
18 import android.view.WindowManager;
19 import android.view.inputmethod.EditorInfo;
20 import android.widget.AdapterView;
21 import android.widget.AutoCompleteTextView;
22 import android.widget.Button;
23 import android.widget.ImageView;
24 import android.widget.TextView;
25 import android.widget.Toast;
26
27 import com.google.android.gms.common.ConnectionResult;
28 import com.google.android.gms.common.GooglePlayServicesNotAvailableException;
29 import com.google.android.gms.common.GooglePlayServicesRepairableException;
30 import com.google.android.gms.common.api.GoogleApiClient;
31 import com.google.android.gms.common.api.PendingResult;
32 import com.google.android.gms.common.api.ResultCallback;
33 import com.google.android.gms.location.FusedLocationProviderClient;
34 import com.google.android.gms.location.LocationServices;
35 import com.google.android.gms.location.places.AutocompletePrediction;
36 import com.google.android.gms.location.places.Place;
37 import com.google.android.gms.location.places.PlaceBuffer;
38 import com.google.android.gms.location.places.Places;
39 import com.google.android.gms.location.places.ui.PlacePicker;
40 import com.google.android.gms.maps.CameraUpdateFactory;
41 import com.google.android.gms.maps.GoogleMap;
42 import com.google.android.gms.maps.OnMapReadyCallback;
43 import com.google.android.gms.maps.SupportMapFragment;
44 import com.google.android.gms.maps.model.LatLng;
45 import com.google.android.gms.maps.model.LatLngBounds;
46 import com.google.android.gms.maps.model.Marker;
47 import com.google.android.gms.maps.model.MarkerOptions;
48 import com.google.android.gms.tasks.OnCompleteListener;
49 import com.google.android.gms.tasks.Task;
50
51 import java.io.IOException;
52 import java.util.ArrayList;
53 import java.util.List;
54
55 /**
56  * Created by User on 10/2/2017.
57  */
58
59 public class MapsActivity2 extends AppCompatActivity implements OnMapReadyCallback,
60     GoogleApiClient.OnConnectionFailedListener{
61
62     @Override
63     public void onConnectionFailed(@NonNull ConnectionResult connectionResult) {
64
65     }
66
67     @Override
68     public void onMapReady(GoogleMap googleMap) {
69         Toast.makeText(context: this, text: "Map is Ready", Toast.LENGTH_SHORT).show();
70         Log.d(TAG, msg: "onMapReady: map is ready");
71         mMap = googleMap;
72     }
```

```

73         if (mLocationPermissionsGranted) {
74             getDeviceLocation();
75
76             if (ActivityCompat.checkSelfPermission( context: this,
77                 Manifest.permission.ACCESS_FINE_LOCATION
78                 != PackageManager.PERMISSION_GRANTED &&
79                 ActivityCompat.checkSelfPermission( context: this,
80                 Manifest.permission.ACCESS_COARSE_LOCATION) != PackageManager.PERMISSION_GRANTED)
81             {
82                 return;
83             }
84             mMap.setMyLocationEnabled(true);
85             mMap.getUiSettings().setMyLocationButtonEnabled(false);
86
87             init();
88         }
89     }
90
91     private static final String TAG = "MapActivity";
92
93     private static final String FINE_LOCATION = Manifest.permission.ACCESS_FINE_LOCATION;
94     private static final String COURSE_LOCATION = Manifest.permission.ACCESS_COARSE_LOCATION;
95     private static final int LOCATION_PERMISSION_REQUEST_CODE = 1234;
96     private static final float DEFAULT_ZOOM = 15f;
97     private static final int PLACE_PICKER_REQUEST = 1;
98     private static final LatLngBounds LAT_LNG_BOUNDS = new LatLngBounds(
99         new LatLng( V: -40, V1: -168), new LatLng( V: 71, V1: 136));
100
101     DBH myDb;
102     //widgets
103     private autoCompleteTextView mSearchText;
104     private ImageView mGps, mInfo, mPlacePicker;
105
106
107     //vars
108     private Boolean mLocationPermissionsGranted = false;
109     private GoogleMap mMap;
110     private FusedLocationProviderClient mFusedLocationProviderClient;
111     private PlaceAutocompleteAdapter mPlaceAutocompleteAdapter;
112     private GoogleApiClient mGoogleApiClient;
113     private PlaceInfo mPlace;
114     private Marker mMarker;
115
116
117     public static String des_loc;
118
119     @Override
120     protected void onCreate(@Nullable Bundle savedInstanceState) {
121         super.onCreate(savedInstanceState);
122         setContentView(R.layout.activity_maps2);
123
124         myDb = new DBH( context: this);
125
126         mSearchText = (AutoCompleteTextView) findViewById(R.id.input_search);
127         mGps = (ImageView) findViewById(R.id.ic_gps);
128         mInfo = (ImageView) findViewById(R.id.place_info);
129         mPlacePicker = (ImageView) findViewById(R.id.place_picker);
130         final Button mok = findViewById(R.id.ok2);
131         getLocationPermission();
132         mok.setOnClickListener((view) -> {
133             Intent reg = new Intent( packageContext: MapsActivity2.this, after_login.class);
134             startActivity(reg);
135             String emailz=start.email_login.getText().toString();
136             boolean isInserted = myDb.insertData2(des_loc,emailz);
137
138             if(isInserted == true)
139             {
140                 Toast.makeText( context: MapsActivity2.this,
141                     text: "Your destination location could not be accessed!",
142                     Toast.LENGTH_LONG).show();
143             }
144             else
145             {
146                 Toast.makeText( context: MapsActivity2.this,
147                     text: "Your destination location has been accessed!",
148                     Toast.LENGTH_LONG).show();

```

```

149
150
151     //}
152 }
153
154
155 }
156
157 private void init() {
158     Log.d(TAG, "init: initializing");
159
160     mGoogleApiClient = new GoogleApiClient
161         .Builder( context, this)
162         .addApi(Places.GEO_DATA_API)
163         .addApi(Places.PLACE_DETECTION_API)
164         .enableAutoManage( fragmentActivity: this, onConnectionFailedListener: this)
165         .build();
166
167     mSearchText.setOnItemClickListener(mAutocompleteClickListener);
168
169     mPlaceAutocompleteAdapter = new PlaceAutocompleteAdapter( context, this, mGoogleApiClient,
170         LAT_LNG_BOUNDS, filter: null);
171
172     mSearchText.setAdapter(mPlaceAutocompleteAdapter);
173
174     mSearchText.setOnEditorActionListener((textView, actionId, keyEvent) -> {
175         if(actionId == EditorInfo.IME_ACTION_SEARCH
176             || actionId == EditorInfo.IME_ACTION_DONE
177             || keyEvent.getAction() == KeyEvent.ACTION_DOWN
178             || keyEvent.getAction() == KeyEvent.KEYCODE_ENTER) {
179
180             //execute our method for searching
181             geoLocate();
182         }
183
184         return false;
185     });
186
187
188     mGps.setOnClickListener((view) -> {
189         Log.d(TAG, "onClick: clicked gps icon");
190         getDeviceLocation();
191     });
192
193     mInfo.setOnClickListener((view) -> {
194         Log.d(TAG, "onClick: clicked place info");
195         try {
196             if(mMarker.isInfoWindowShown()){
197                 mMarker.hideInfoWindow();
198             } else {
199                 Log.d(TAG, "onClick: place info: " + mPlace.toString());
200                 mMarker.showInfoWindow();
201             }
202         } catch (NullPointerException e) {
203             Log.e(TAG, "onClick: NullPointerException: " + e.getMessage());
204         }
205     });
206
207     mPlacePicker.setOnClickListener((view) -> {
208         PlacePicker.IntentBuilder builder = new PlacePicker.IntentBuilder();
209
210         try {
211             startActivityResult(builder.build( activity: MapsActivity2.this,
212                 PLACE_PICKER_REQUEST));
213         } catch (GooglePlayServicesRepairableException e) {
214             Log.e(TAG, "onClick: GooglePlayServicesRepairableException: "
215                 + e.getMessage());
216         } catch (GooglePlayServicesNotAvailableException e) {
217             Log.e(TAG, "onClick: GooglePlayServicesNotAvailableException: "
218                 + e.getMessage());
219         }
220     });
221
222     hideSoftKeyboard();

```



```

237     }
238
239     protected void onActivityResult(int requestCode, int resultCode, Intent data) {
240         if (requestCode == PLACE_PICKER_REQUEST) {
241             if (resultCode == RESULT_OK) {
242                 Place place = PlacePicker.getPlace(context: this, data);
243                 //des_loc = place.getName()+" "+place.getAddress();
244
245                 PendingResult<PlaceBuffer> placeResult = Places.GeoDataApi.getPlaceById
246                     (mGoogleApiClient, place.getId());
247                 placeResult.setResultCallback(mUpdatePlaceDetailsCallback);
248             }
249             else {
250                 super.onActivityResult(requestCode, resultCode, data);
251             }
252         }
253         else {
254             super.onActivityResult(requestCode, resultCode, data);
255         }
256     }
257
258     private void geoLocate(){
259         Log.d(tag: "awe", msg: "geoLocate: geolocating");
260
261         String searchString = mSearchText.getText().toString();
262
263         Geocoder geocoder = new Geocoder(context: MapsActivity2.this);
264         List<Address> list = new ArrayList<>();
265         try{
266             list = geocoder.getFromLocationName(searchString, maxResults: 1);
267         }catch (IOException e){
268             Log.e(TAG, msg: "geoLocate: IOException: " + e.getMessage() );
269         }
270
271         if(list.size() > 0){
272             Address address = list.get(0);
273
274             Log.d(tag: "awe", msg: "geoLocate: found a location: " + address.toString());
275             //Toast.makeText(this, address.toString(), Toast.LENGTH_SHORT).show();
276             //des_loc = list.get(0).getAddressLine(0);
277             moveCamera(new LatLng(address.getLatitude(), address.getLongitude()), DEFAULT_ZOOM,
278                 address.getAddressLine(index: 0));
279         }
280     }
281
282     private void getDeviceLocation(){
283         Log.d(TAG, msg: "getDeviceLocation: getting the devices current location");
284
285         mFusedLocationProviderClient = LocationServices.getFusedLocationProviderClient(activity: this);
286
287         try{
288             if(mLocationPermissionsGranted){
289
290                 final Task location = mFusedLocationProviderClient.getLastLocation();
291                 location.addOnCompleteListener((task) -> {
292                     if(task.isSuccessful()){
293                         Log.d(TAG, msg: "onComplete: found location!");
294                         Location currentLocation = (Location) task.getResult();
295
296                         moveCamera(new LatLng(currentLocation.getLatitude(),
297                             currentLocation.getLongitude()),
298                             DEFAULT_ZOOM,
299                             title: "My Location");
300                     }else{
301                         Log.d(TAG, msg: "onComplete: current location is null");
302                         Toast.makeText(context: MapsActivity2.this,
303                             text: "unable to get current location", Toast.LENGTH_SHORT).show();
304                     }
305                 });
306             }
307         }catch (SecurityException e){
308             Log.e(TAG, msg: "getDeviceLocation: SecurityException: " + e.getMessage() );
309         }
310     }
311
312     }
313
314 }

```

```

315
316 @ private void moveCamera(LatLng latLng, float zoom, PlaceInfo placeInfo){
317     Log.d(TAG, "msg: moveCamera: moving the camera to: lat: " +
318         latLng.latitude + ", lng: " + latLng.longitude );
319     mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(latLng, zoom));
320
321
322     mMap.clear();
323
324     mMap.setInfoWindowAdapter(new CustomInfoWindowAdapter( context: MapsActivity2.this));
325
326     if(placeInfo != null){
327         try{
328
329             String snippet = "Address: " + placeInfo.getAddress();
330             //des_loc = placeInfo.getName() + " "+placeInfo.getAddress();
331             MarkerOptions options = new MarkerOptions()
332                 .position(latLng)
333                 .title(placeInfo.getName())
334                 .snippet(snippet);
335             mMarker = mMap.addMarker(options);
336
337         }catch (NullPointerException e){
338             Log.e(TAG, "msg: moveCamera: NullPointerException: " + e.getMessage() );
339         }
340     }else{
341         mMap.addMarker(new MarkerOptions().position(latLng));
342     }
343
344     hideSoftKeyboard();
345 }
346
347 @ private void moveCamera(LatLng latLng, float zoom, String title){
348     Log.d(TAG, "msg: moveCamera: moving the camera to: lat: " + latLng.latitude
349         + ", lng: " + latLng.longitude );
350     mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(latLng, zoom));
351
352
353     if(!title.equals("My Location")){
354         MarkerOptions options = new MarkerOptions().position(latLng).title(title);
355         mMap.addMarker(options);
356     }
357
358     hideSoftKeyboard();
359 }
360
361 private void initMap(){
362     Log.d(TAG, "msg: initMap: initializing map");
363     SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager().
364         findFragmentById(R.id.map);
365
366     mapFragment.getMapAsync( onMapReadyCallback: MapsActivity2.this);
367 }
368
369 private void getLocationPermission(){
370     Log.d(TAG, "msg: getLocationPermission: getting location permissions");
371     String[] permissions = {Manifest.permission.ACCESS_FINE_LOCATION,
372         Manifest.permission.ACCESS_COARSE_LOCATION};
373
374     if(ContextCompat.checkSelfPermission(this.getApplicationContext(),
375         FINE_LOCATION) == PackageManager.PERMISSION_GRANTED){
376         if(ContextCompat.checkSelfPermission(this.getApplicationContext(),
377             COURSE_LOCATION) == PackageManager.PERMISSION_GRANTED){
378             mLocationPermissionsGranted = true;
379             initMap();
380         }else{
381             ActivityCompat.requestPermissions( activity: this,
382                 permissions,
383                 LOCATION_PERMISSION_REQUEST_CODE);
384         }
385     }else{
386         ActivityCompat.requestPermissions( activity: this,
387             permissions,
388             LOCATION_PERMISSION_REQUEST_CODE);
389     }

```

```

390     }
391
392     @Override
393     public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions,
394                                           @NonNull int[] grantResults) {
395         Log.d(TAG, msg: "onRequestPermissionsResult: called.");
396         mLocationPermissionsGranted = false;
397
398         switch(requestCode) {
399             case LOCATION_PERMISSION_REQUEST_CODE: {
400                 if (grantResults.length > 0) {
401                     for (int i = 0; i < grantResults.length; i++) {
402                         if (grantResults[i] != PackageManager.PERMISSION_GRANTED) {
403                             mLocationPermissionsGranted = false;
404                             Log.d(TAG, msg: "onRequestPermissionsResult: permission failed");
405                             return;
406                         }
407                     }
408                     Log.d(TAG, msg: "onRequestPermissionsResult: permission granted");
409                     mLocationPermissionsGranted = true;
410                     //initialize our map
411                     initMap();
412                 }
413             }
414         }
415     }
416
417     Log.d(TAG, msg: "onResult: Place query did not complete successfully: "
418           + places.getStatus().toString());
419     places.release();
420     return;
421 }
422
423 final Place place = places.get(0);
424
425 try {
426     mPlace = new PlaceInfo();
427     mPlace.setName(place.getName().toString());
428     Log.d(TAG, msg: "onResult: name: " + place.getName());
429     mPlace.setAddress(place.getAddress().toString());
430     Log.d(TAG, msg: "onResult: address: " + place.getAddress());
431     mPlace.setAttributions(place.getAttributions().toString());
432     Log.d(TAG, msg: "onResult: attributions: " + place.getAttributions());
433     mPlace.setId(place.getId());
434     Log.d(TAG, msg: "onResult: id: " + place.getId());
435     mPlace.setLatLng(place.getLatLng());
436     Log.d(TAG, msg: "onResult: latlng: " + place.getLatLng());
437     mPlace.setRating(place.getRating());
438     Log.d(TAG, msg: "onResult: rating: " + place.getRating());
439     mPlace.setPhoneNumber(place.getPhoneNumber().toString());
440     Log.d(TAG, msg: "onResult: phone number: " + place.getPhoneNumber());
441     mPlace.setWebsiteUri(place.getWebsiteUri());
442     Log.d(TAG, msg: "onResult: website uri: " + place.getWebsiteUri());
443
444     Log.d(TAG, msg: "onResult: place: " + mPlace.toString());
445
446     des_loc = place.getName().toString() + " " + place.getAddress().toString();
447     Log.d(tag: "45", des_loc);
448
449     Log.d(tag: "kl", des_loc);
450
451 } catch (NullPointerException e) {
452     Log.e(TAG, msg: "onResult: NullPointerException: " + e.getMessage());
453 }
454
455 moveCamera(new LatLng(place.getViewPort().getCenter().latitude,
456                       place.getViewPort().getCenter().longitude), DEFAULT_ZOOM, mPlace);
457
458 places.release();
459
460 }

```

8. Database Helper

```
1  package com.sharethefare.sharethefare;
2
3  import android.content.ContentValues;
4  import android.content.Context;
5  import android.database.Cursor;
6  import android.database.sqlite.SQLiteDatabase;
7  import android.database.sqlite.SQLiteOpenHelper;
8  import java.util.ArrayList;
9
10 public class DBH extends SQLiteOpenHelper {
11
12     public static final String DATABASE_NAME = "Userx.db";
13     public static final String TABLE_NAME = "user_info";
14
15     public static final String COL_1 = "ID";
16     public static final String COL_2 = "Name";
17     public static final String COL_3 = "Mobile";
18     public static final String COL_4 = "Email";
19     public static final String COL_5 = "Password";
20     public static final String COL_6 = "Pickup";
21     public static final String COL_7 = "Destination";
22     public static final String COL_8 = "Date";
23     public static final String COL_9 = "Time";
24     public static final String COL_10 = "Confirm";
25
26     ArrayList<String> arr = new ArrayList<>();
27     public DBH(Context context) { super(context, DATABASE_NAME, factory: null, version: 1); }
28
29     @Override
30     public void onCreate(SQLiteDatabase db) {
31         db.execSQL("create table " + TABLE_NAME + " (" + COL_1 + " " +
32             "INTEGER PRIMARY KEY AUTOINCREMENT," + COL_2 + " TEXT,"
33             + COL_3 + " TEXT," + COL_4 + " TEXT," + COL_5 + " TEXT," + COL_6
34             + " TEXT," + COL_7 + " TEXT," + COL_8 + " TEXT,"
35             + COL_9 + " TEXT," + COL_10 + " TEXT)");
36     }
37
38     @Override
39     public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
40         db.execSQL("DROP TABLE IF EXISTS " + TABLE_NAME);
41         onCreate(db);
42     }
43
44     public boolean insertData(String name, String mobile, String email, String password) {
45         SQLiteDatabase db = this.getWritableDatabase();
46         ContentValues contentValues = new ContentValues();
47         contentValues.put(COL_2, name);
48         contentValues.put(COL_3, mobile);
49         contentValues.put(COL_4, email);
50         contentValues.put(COL_5, password);
51         long result = db.insert(TABLE_NAME, nullColumnHack: null, contentValues);
52         if (result == -1)
53             return false;
54         else
55             return true;
56     }
57
58     public boolean check(String email, String password) {
59         String str;
60         SQLiteDatabase db = this.getWritableDatabase();
61         Cursor res = db.rawQuery("select " + COL_4 + " from " + TABLE_NAME + " where "
62             + COL_4 + " = " + email + " and " + COL_5 + " = " + password + " ", selectionArgs: null);
63         if (res.moveToFirst()) {
64             return true;
65         }
66         else
67             return false;
68     }
69
70     public boolean insertData1(String pickup, String email) {
71
72
73
74 }
```

```

81         else
82             return false;
83     }
84 }
85
86 public boolean insertDate(String date,String time, String email) {
87     SQLiteDatabase db = this.getWritableDatabase();
88     Cursor res = db.rawQuery( sql: "update "+TABLE_NAME+" set " +COL_8 +
89         "="+""+"date+"+" "+COL_9 +
90         "="+""+"time+" where "+COL_4+"="+""+"email+"+"", selectionArgs: null);
91     if(res.moveToFirst()){
92         return true;
93     }
94     else
95         return false;
96 }
97
98
99 public boolean insertData2(String desti, String email) {
100
101     SQLiteDatabase db = this.getWritableDatabase();
102     Cursor res = db.rawQuery( sql: "update "+TABLE_NAME+" set " +COL_7 +
103         "="+""+"desti+" where "+COL_4+"="+""+"email+"+"", selectionArgs: null);
104     if(res.moveToFirst()){
105         return true;
106     }
107     else
108         return false;
109 }
110
111
112
113 public Cursor getAllData() {
114     SQLiteDatabase db = this.getWritableDatabase();
115     Cursor res = db.rawQuery( sql: "select "+ COL_2 + "," + COL_3 + "," + COL_6
116         + "," + COL_7 + "," + COL_8 + "," + COL_9 + " from "+TABLE_NAME, selectionArgs: null);
117     return res;
118 }
119 }

```

9. View List

```

1  package com.sharethefare.sharethefare;
2
3  import android.content.Intent;
4  import android.database.Cursor;
5  import android.support.v7.app.AlertDialog;
6  import android.support.v7.app.AppCompatActivity;
7  import android.os.Bundle;
8  import android.view.View;
9  import android.widget.Button;
10 import android.widget.TextView;
11
12 public class viewlist extends AppCompatActivity {
13     private session session;
14     DBH myDb;
15
16     @Override
17     protected void onCreate(Bundle savedInstanceState) {
18         super.onCreate(savedInstanceState);
19         setContentView(R.layout.activity_viewlist);
20         final TextView vieww = findViewById(R.id.view_list);
21         final Button logout = findViewById(R.id.logoutx);
22         session = new session( ctx: this);
23         if(!session.loggedin()){
24             logout();
25         }
26         myDb = new DBH( context: this);

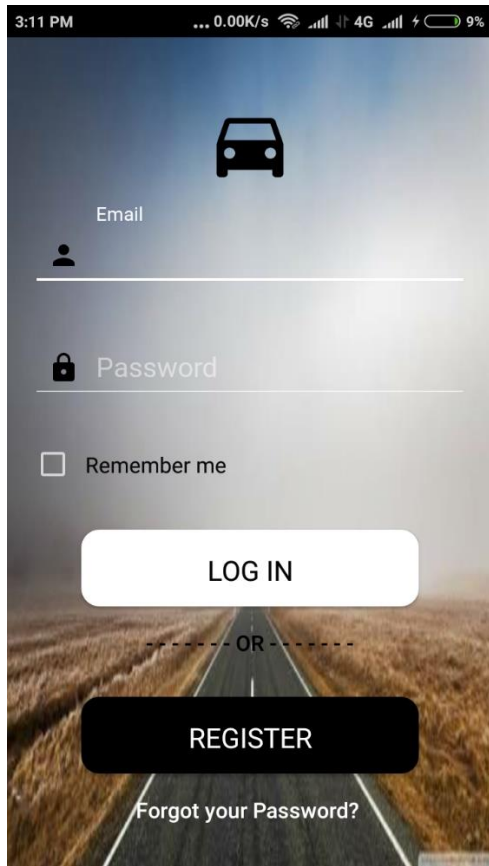
```

```


27     logout.setOnClickListener((view) -> { logout(); });
33
34     Cursor res = myDb.getAllData();
35     if(res.getCount() == 0) {
36         // show message
37         showMessage( title: "Error", Message: "Nothing found");
38         return;
39     }
40
41     StringBuffer buffer = new StringBuffer();
42     while (res.moveToNext()) {
43         buffer.append("Name :"+ res.getString(0)+"\n");
44         buffer.append("Mobile :"+ res.getString(1)+"\n");
45         buffer.append("Pickup :"+ res.getString(2)+"\n");
46         buffer.append("Destination :"+ res.getString(3)+"\n");
47         buffer.append("Date :"+ res.getString(4)+"\n");
48         buffer.append("Time :"+ res.getString(5)+"\n\n");
49     }
50
51     // Show all data
52     //showMessage("Data",buffer.toString());
53     vieww.setText(buffer.toString());
54
55 }
56 private void logout(){
57     session.setLoggedIn(false);
58     finish();
59     startActivity(new Intent( packageContext: viewlist.this,start.class));
60 }
61
62 public void showMessage(String title,String Message){
63     AlertDialog.Builder builder = new AlertDialog.Builder( context: this);
64     builder.setCancelable(true);
65     builder.setTitle(title);
66     builder.setMessage(Message);
67     builder.show();
68 }
69
70 }
71


```


3.5 Testing



3:11 PM ... 0.00K/s 4G 9%



Email 

Password 

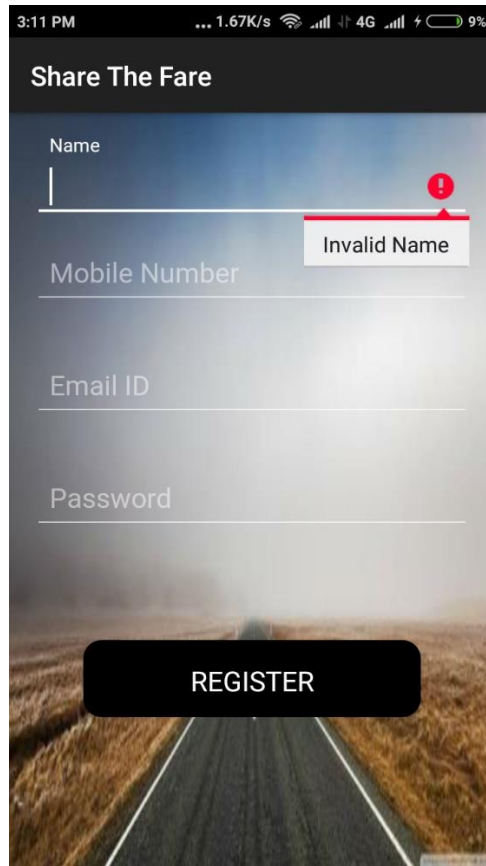
☐ Remember me

LOG IN

OR


REGISTER

[Forgot your Password?](#)



3:11 PM ... 1.67K/s 4G 9%

Share The Fare

Name 

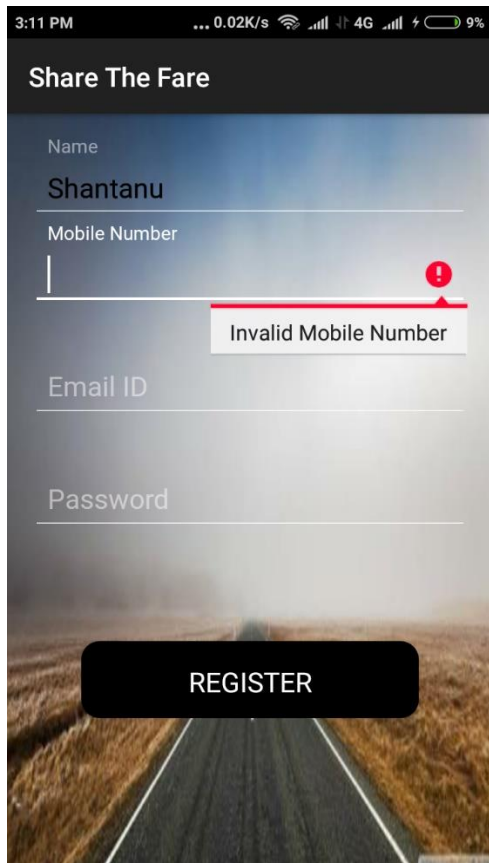
Invalid Name

Mobile Number

Email ID

Password

REGISTER




3:11 PM ... 0.02K/s 4G 9%

Share The Fare

Name

Shantanu

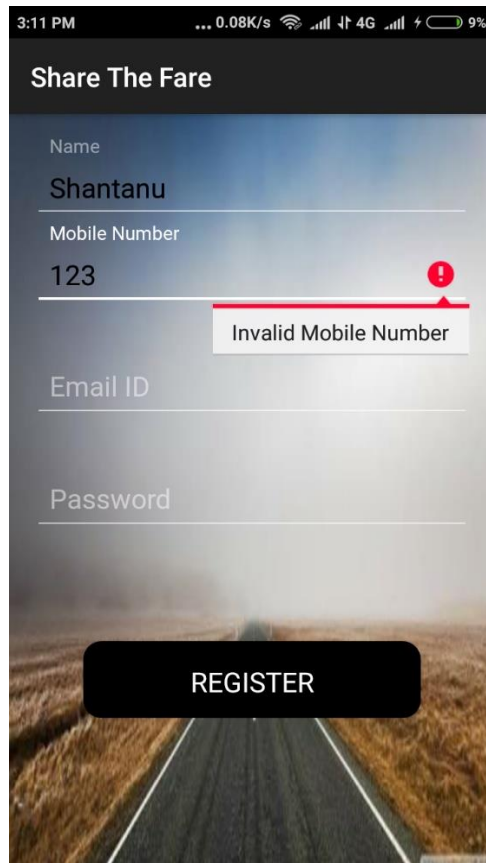
Mobile Number 

Invalid Mobile Number

Email ID

Password

REGISTER




3:11 PM ... 0.08K/s 4G 9%

Share The Fare

Name

Shantanu

Mobile Number 

Invalid Mobile Number

Email ID

Password

REGISTER

3:12 PM ... 0.05K/s 4G 9%

Share The Fare

Name
Shantanu

Mobile Number
123-55 89

Invalid Mobile Number

Email ID

Password

REGISTER

3:12 PM ... 0.02K/s 4G 9%

Share The Fare

Name
Shantanu

Mobile Number
1234567890

Email ID

Invalid Email

Password

REGISTER

3:12 PM ... 0.04K/s 4G 9%

Share The Fare

Name
Shantanu

Mobile Number
1234567890

Email ID
mahale@gmail.com

Password

Invalid Password

REGISTER

3:13 PM ... 0.02K/s 4G 9%

Car icon

Email


Password

☐ Remember me

You have registered successfully!

English

3:13 PM ... 0.05K/s 4G 9%



Email

Invalid Email

Password

☐ Remember me


LOG IN

OR

REGISTER

Forgot your Password?

3:13 PM ... 0.00K/s 4G 9%



Email

mahale@gmail.com

Invalid Password

Password

☐ Remember me

LOG IN

OR

REGISTER

Forgot your Password?

3:14 PM ... 0.01K/s 4G 9%

LOGOUT

PICKUP

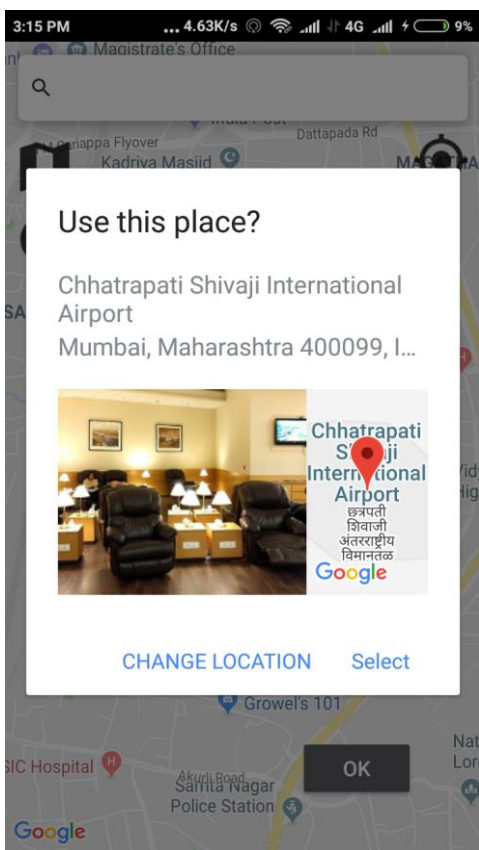
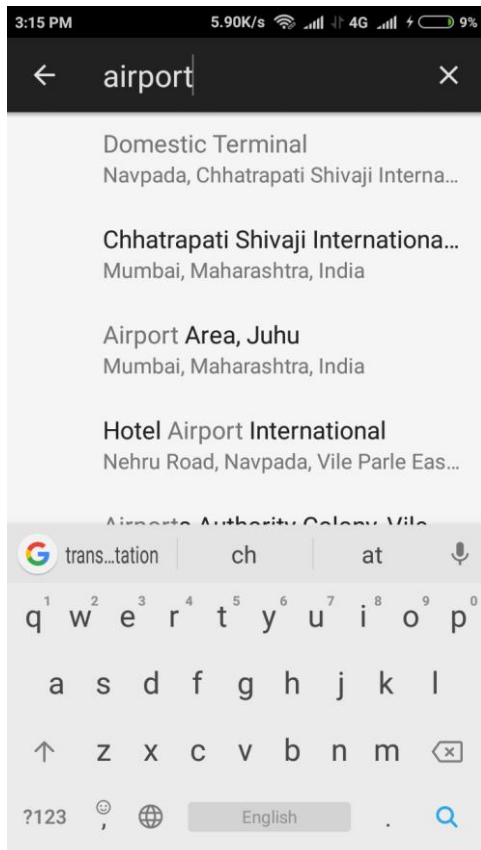
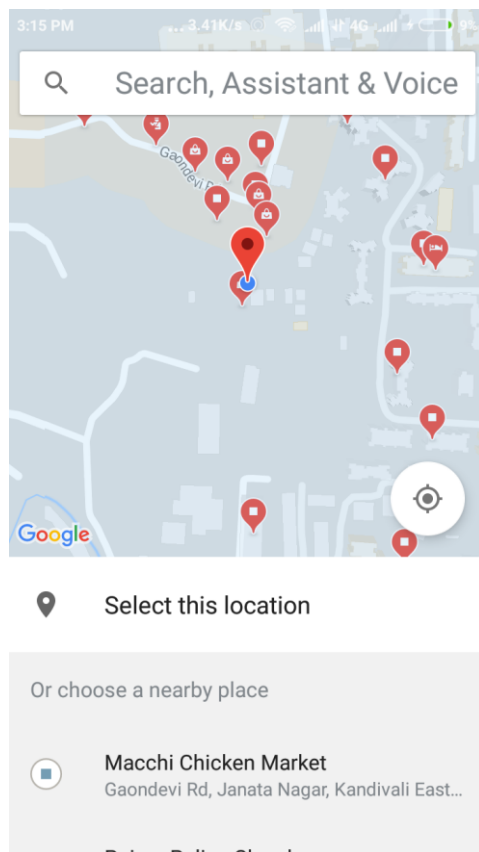
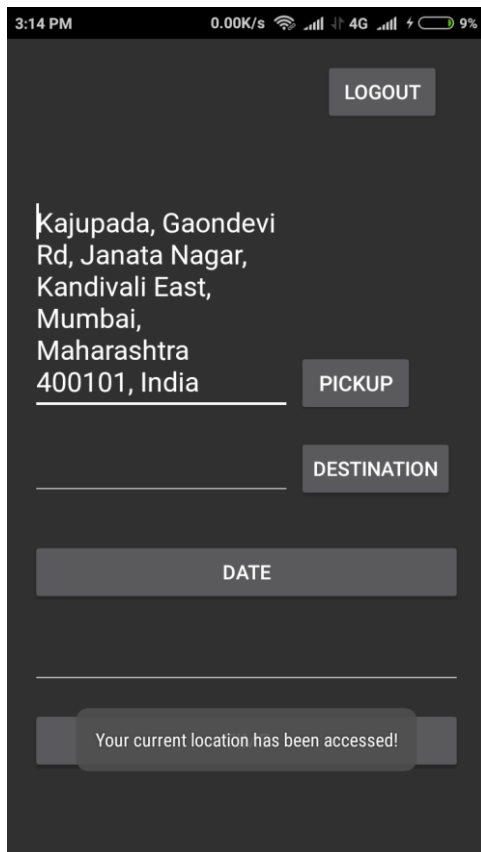
DESTINATION

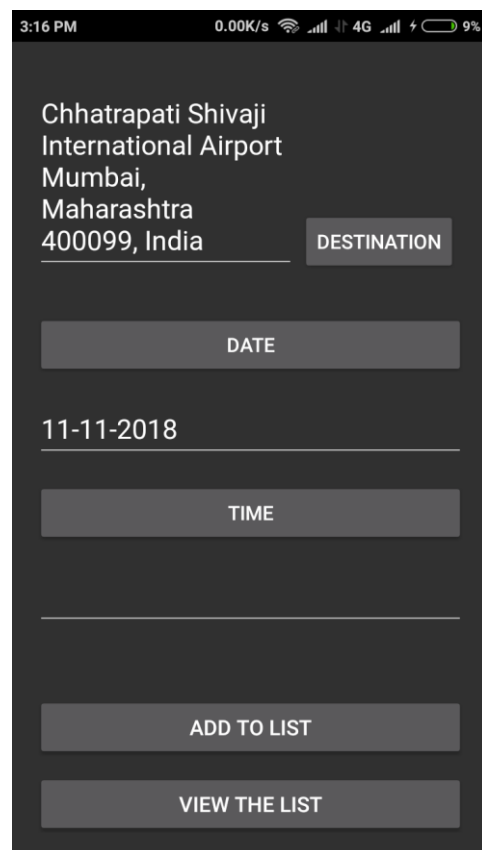
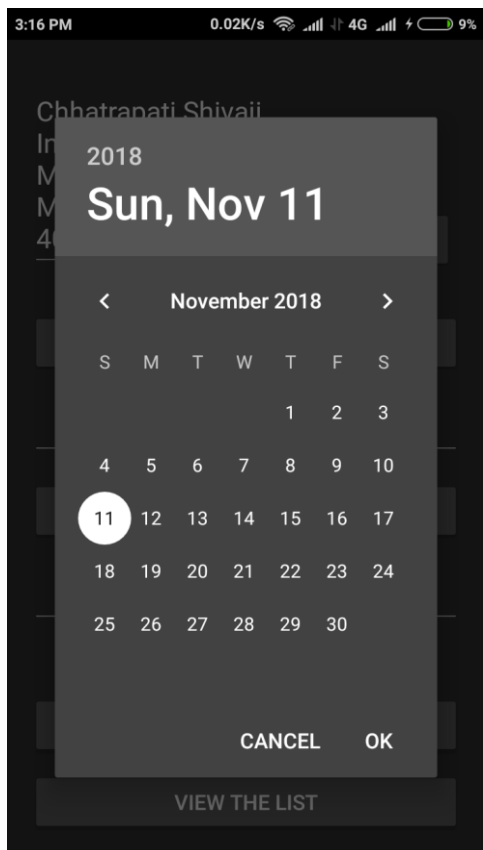
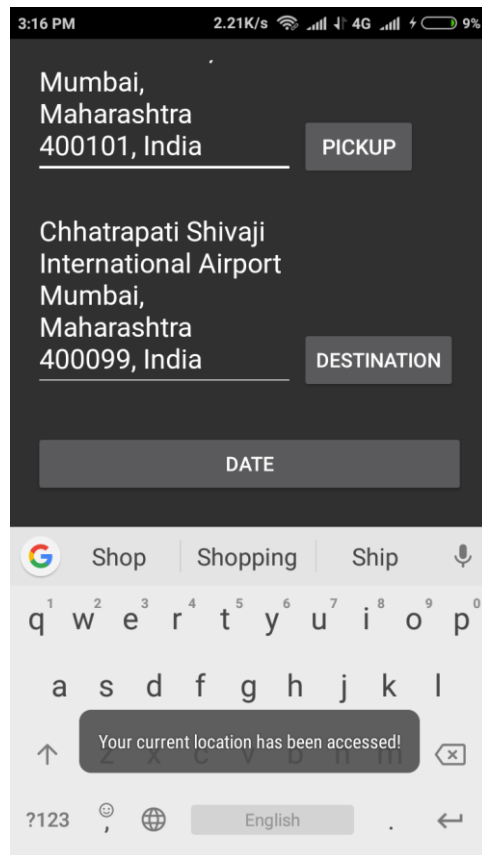
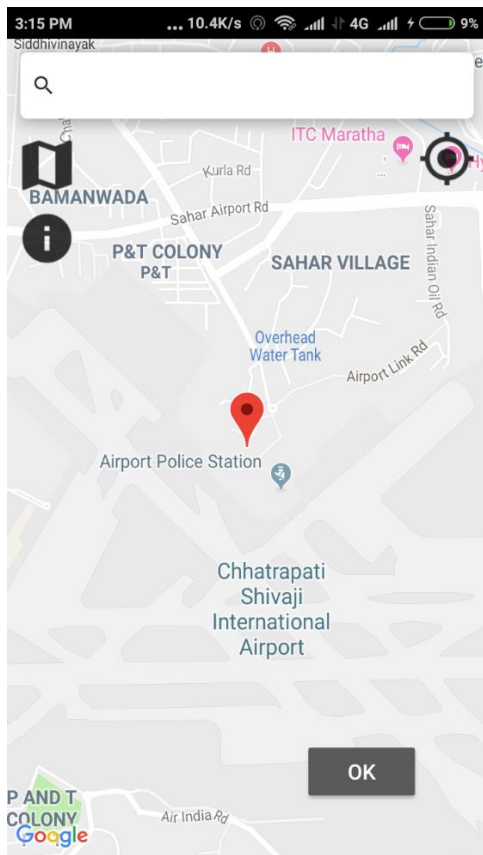
DATE

TIME

ADD TO LIST







3:16 PM 0.00K/s 4G 9%

Chhatrapati Shivaji
International Airport
Mumbai,
Maharashtra
400099, India

3:16 AM PM

11 12 1 2 3 4 5 6 7 8 9 10

CANCEL OK

ADD TO LIST

VIEW THE LIST

3:16 PM 1.43K/s 4G 10%

Chhatrapati Shivaji
International Airport
Mumbai,
Maharashtra
400099, India

DESTINATION

DATE

11-11-2018

TIME

15:16

ADD TO LIST

VIEW THE LIST

3:16 PM 1.10K/s 4G 10%

Chhatrapati Shivaji
International Airport
Mumbai,
Maharashtra
400099, India

DESTINATION

DATE

11-11-2018

TIME

15:16

ADD TO LIST

Your date and time of travel has been registered.

VIEW THE LIST

3:16 PM 0.12K/s 4G 10%

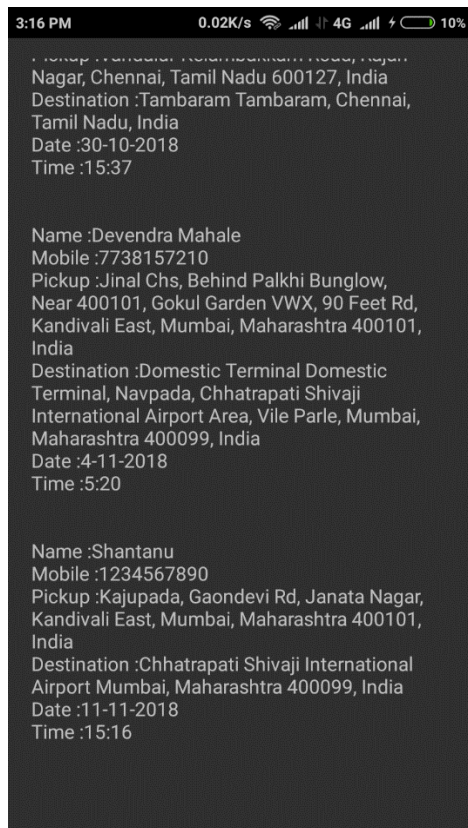
LOGOUT

Name :SHANTANU
Mobile :1234567980
Pickup :Unnamed Road, Kovilancheri, Tamil Nadu
600048, India
Destination :Airport Meenambakkam, Chennai,
Tamil Nadu 600016, India
Date :2-11-2018
Time :21:30

Name :shan't
Mobile :1234567890
Pickup :Vandalur-Kelambakkam Road, Rajan
Nagar, Chennai, Tamil Nadu 600127, India
Destination :Delhi Delhi, India
Date :29-10-2018
Time :2:35

Name :SHANTANU
Mobile :1234567890
Pickup :Vandalur-Kelambakkam Road, Rajan
Nagar, Chennai, Tamil Nadu 600127, India
Destination :null
Date :02/11/2018
Time :21:00

Name :asdf



1. The app doesn't accept empty fields.
2. The app doesn't accept invalid:
 - Name
 - Mobile number (should be 10 digits without spaces or other characters)
 - Email (should be of the format [zz@zz.zz](#))
 - Password (should not be empty)
3. The app doesn't allow invalid user login:
 - Email (only the one that is registered)
 - Password (should match with that in database)
4. The app does not give any runtime errors (i.e. the app will not crash. But it can throw exception).

CHAPTER 4

CONCLUSION

The application in its core idea, can remove the inconveniences that exist in the existing systems. The basic idea is to cab-pool. Cab-pooling not only helps in saving the customers' money but it is also environmentally friendly (cab-pooling is a type of car-pooling). But such a product demands cooperation and coordination between the fellow passengers, who are cab-pooling together.

The app constructed based on the presented idea is just a prototype. For real life implementation, there has to be a lot of things in place, like the grouping of the passengers should be in a fixed number and algorithmic.

Further, if the application is developed to the extent of booking cabs/taxis, it has to be more sophisticated and more secure than it is now.

Many facilities like changing of email, password, forgot email or forgot password, remembering the user who is logged in, OTP services, automatic GPS enabling has to be still included. What the user wants, is totally dependent on the functionality of the app.

Live – location tracking, traffic congestions, and safety issues must also be taken into consideration.

As of now, the model successfully represents that 'Share the Fare' provides efficient method of carpooling.

REFERENCES

Resources used:

1. Android Studio Software
2. Real Device – Redmi phone
3. DB Browser for SQLite software