

# Appendix

## Appendix A

- mobile application Screen
  - Start Page Interface

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#ffffff" >

    <Button
        android:id="@+id/button1"
        android:layout_width="250dp"
        android:layout_height="50dp"
        android:background="@drawable/button_sample1"
        android:layout_alignParentBottom="true"
        android:layout_centerHorizontal="true"
        android:text="@string/ok"
        android:clickable="true"
        android:onClick="okay"
        android:layout_marginBottom="10dp" />

    <ImageView
        android:src="@drawable/ic_launcher"
        android:layout_height="300dp"
        android:layout_width="200dp"

        android:layout_below="@+id/app_name"
        android:layout_centerHorizontal="true" />
    <TextView
        android:id="@+id/app_name"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="40dp"
        android:text="@string/friend_locator"
        android:fontFamily="sans-serif-condensed"
        android:textAppearance="?android:attr/textAppearanceLarge"
        android:textColor="#ff8f06"
        android:textSize="40sp"
        android:textStyle="bold"
        android:typeface="monospace" />
```

```
</RelativeLayout>
```

## ○ Login Interface

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".Login_page" >

    <EditText
        android:id="@+id/password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:ems="10"
        android:inputType="textPassword"
        android:hint="@string/password" >

    </EditText>

    <EditText
        android:id="@+id/username"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/password"
        android:layout_alignLeft="@+id/password"
        android:layout_alignRight="@+id/password"
        android:ems="10"
        android:layout_marginBottom="5dp"
        android:hint="@string/username" >

    <requestFocus />
```

```

</EditText>

<Button
    android:id="@+id/login"
    android:layout_width="100dp"
    android:layout_height="40dp"
    android:layout_alignLeft="@+id/password"
    android:layout_below="@+id/password"
    android:layout_marginTop="20dp"
    android:text="@string/login"
    android:background="#ff8f06"
    android:clickable="true"
    android:onClick="login" />

<Button
    android:id="@+id/button2"
    android:layout_width="100dp"
    android:layout_height="40dp"
    android:layout_alignBaseline="@+id/login"
    android:layout_alignBottom="@+id/login"
    android:layout_alignRight="@+id/password"
    android:text="@string/signup"
    android:background="#ff8f06"
    android:clickable="true"
    android:onClick="signup" />

</RelativeLayout>

```

## ○ Signup Interface

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent" >

    <EditText
        android:id="@+id/password"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_centerVertical="true"
        android:ems="10"

```

```
android:hint="@string/password"
android:inputType="textPassword" >
```

```
</EditText>
```

```
<EditText
    android:id="@+id/username"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_above="@+id/password"
    android:layout_alignLeft="@+id/password"
    android:layout_alignRight="@+id/password"
    android:ems="10"
    android:layout_marginBottom="5dp"
    android:hint="@string/username" >
```

```
<requestFocus />
```

```
</EditText>
```

```
<EditText
    android:id="@+id/email"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_alignLeft="@+id/password"
    android:layout_alignRight="@+id/password"
    android:layout_below="@+id/password"
    android:ems="10"
    android:hint="@string/email"
    android:inputType="textEmailAddress"
    android:layout_marginTop="5dp" />
```

```
<Button
    android:id="@+id/sign_up"
    android:layout_width="100dp"
    android:layout_height="40dp"
    android:layout_below="@+id/email"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="20dp"
    android:text="@string/signup"
    android:background="#ff8f06"
    android:clickable="true"
    android:onClick="sign_up" />
```

```
</RelativeLayout>
```

### ○ Main Activity Interface

```
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".G_Maps" >

    <fragment
        android:id="@+id/map"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        class="com.google.android.gms.maps.MapFragment" />

</RelativeLayout>
```

### ○ Friends Page Interface

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent" >

    <ListView
        android:id="@+id/friends_list"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:cacheColorHint="@android:color/transparent"
        android:background="#ff8f06" >

    </ListView>
```

```
</RelativeLayout>
```

## ○ Profile Page Interface

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#ffffff" >

    <TextView
        android:id="@+id/user"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:textIsSelectable="true"
        android:layout_marginTop="5dp"
        android:textAppearance="?android:attr/textAppearanceLarge" />

    <TextView
        android:id="@+id/email"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/user"
        android:layout_centerHorizontal="true"
        android:textIsSelectable="true"
        android:layout_marginTop="1dp"
        android:textAppearance="?android:attr/textAppearanceSmall" />

    <EditText
        android:id="@+id/search"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_below="@+id/email"
        android:layout_marginLeft="10dp"
        android:layout_marginTop="5dp"
        android:layout_marginRight="5dp"
        android:hint="@string/search"
        android:layout_toLeftOf="@+id/search_button"
```

```
    android:ems="10"
    android:textColorHint="@android:color/black" />
```

```
<Button
    android:id="@+id/search_button"
    android:layout_width="40dp"
    android:layout_height="40dp"
    android:layout_alignBottom="@+id/search"
    android:layout_alignParentRight="true"
    android:layout_alignTop="@+id/search"
    android:layout_marginRight="10dp"
    android:background="@drawable/search_new"
    android:clickable="true"
    android:onClick="search_method" />
```

```
<ListView
    android:id="@+id/search_list"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_below="@+id/search"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="5dp"
    android:background="#ff8f06"
    android:cacheColorHint="@android:color/transparent" >
```

```
</ListView>
```

```
</RelativeLayout>
```

## ○ Main Page Interface

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical" >

    <TabHost
        android:id="@android:id/tabhost"
        android:layout_width="match_parent"
        android:layout_height="match_parent" >
```



```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical" >

    <TabWidget
        android:id="@android:id/tabs"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" >
    </TabWidget>

    <FrameLayout
        android:id="@android:id/tabcontent"
        android:layout_width="match_parent"
        android:layout_height="match_parent" >

        <LinearLayout
            android:id="@+id/tab1"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical">

            <TabWidget
                android:id="@android:id/tabs"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content" >
            </TabWidget>

        </LinearLayout>

        <LinearLayout
            android:id="@+id/tab2"
            android:layout_width="match_parent"
            android:layout_height="match_parent" >
        </LinearLayout>

        <LinearLayout
            android:id="@+id/tab3"
            android:layout_width="match_parent"
            android:layout_height="match_parent" >
        </LinearLayout>
    </FrameLayout>
</LinearLayout>
</TabHost>

```

```
</LinearLayout>
```

## ○ Notification Page Interface

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent" >

    <TextView
        android:id="@+id/Noti_text"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="5dp"
        android:text="@string/notification"
        android:textAppearance="?android:attr/textAppearanceMedium" />

    <ListView
        android:id="@+id/list_notification"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_below="@+id/Noti_text"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="10dp"
        android:cacheColorHint="@android:color/transparent"
        android:background="#ff8f06" >
    </ListView>

</RelativeLayout>
```

## **Appendix B**

## ○ Database Activity Handler

```
package com.amira.googlemaps;

import java.util.ArrayList;
import java.util.List;
```

```

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;
import android.util.Log;

public class DatabaseHandlerActivity extends SQLiteOpenHelper
{

    // All Static variables
    // Database Version
    private static final int DATABASE_VERSION = 1;

    // Database Name
    private static final String DATABASE_NAME = "friendslocator";

    // Contacts table name
    private static final String TABLE_LOCATIONS = "flocation";

    // Contacts Table Columns names
    private static final String KEY_ID = "id";
    private static final String KEY_LAT = "latitude";
    private static final String KEY_LON = "longitude";
    private static final String KEY_TIME = "time";

    public DatabaseHandlerActivity(Context context)
    {
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
        // TODO Auto-generated constructor stub
    }

    @Override
    public void onCreate(SQLiteDatabase db)
    {
        // TODO Auto-generated method stub

        //creating table values

        String CREATE_CONTACTS_TABLE = "CREATE TABLE " + TABLE_LOCATIONS + "("
        + KEY_ID + " INTEGER PRIMARY KEY," + KEY_LAT + " TEXT,"
        + KEY_LON + " TEXT," + KEY_TIME + " TEXT" + ")";
        db.execSQL(CREATE_CONTACTS_TABLE);
    }

    //Upgrading table
    @Override
    public void onUpgrade(SQLiteDatabase db, int oldVersion, int newVersion) {
        // TODO Auto-generated method stub
    }
}

```

```

// Drop older table if existed
db.execSQL("DROP TABLE IF EXISTS " + TABLE_LOCATIONS);

// Create tables again
onCreate(db);

}

// Adding new contact
public void addLocation(Locations_viewer location)
{
    SQLiteDatabase db = this.getWritableDatabase();// making writable database

    ContentValues values = new ContentValues();
    values.put(KEY_LAT, location.getLat()); // latitude
    values.put(KEY_LON, location.getLong()); // longitude
    values.put(KEY_TIME, location.getTime());

    // Inserting Row
    db.insert(TABLE_LOCATIONS, null, values);
    db.close(); // Closing database connection
}

// Getting single contact
public Locations_viewer getLocation(int id)
{
    SQLiteDatabase db = this.getReadableDatabase();

    Cursor cursor = db.query(TABLE_LOCATIONS, new String[] { KEY_ID, KEY_LAT, KEY_LON, KEY_TIME }, KEY_ID + "=?",
        new String[] { String.valueOf(id) }, null, null, null, null);
    if (cursor != null)
        cursor.moveToFirst();

    Locations_viewer contact = new Locations_viewer(Integer.parseInt(cursor.getString(0)), cursor.getString(1),
        cursor.getString(2), cursor.getString(3));
    // return contact
    return contact;
}

// Getting All Contacts
public List<Locations_viewer> getAllLocations() {
    List<Locations_viewer> contactList = new ArrayList<Locations_viewer>();

    // Select All Query
    String selectQuery = "SELECT * FROM " + TABLE_LOCATIONS;

    SQLiteDatabase db = this.getWritableDatabase();
    Cursor cursor = db.rawQuery(selectQuery, null);

    // looping through all rows and adding to list
    if (cursor.moveToFirst()) {
        do {

```

```

        Locations_viewer location = new Locations_viewer();
        location.setID(Integer.parseInt(cursor.getString(0)));
        location.setLat(cursor.getString(1));
        location.setLongi(cursor.getString(2));
        location.setTime(cursor.getString(3));

        // Adding contact to list
        contactList.add(location);
    } while (cursor.moveToNext());
}

// return contact list
return contactList;
}

// Getting contacts Count
public int getLocationsCount()
{
    String countQuery = "SELECT * FROM " + TABLE_LOCATIONS;

    SQLiteDatabase db = this.getReadableDatabase();//database get readable
    Cursor cursor = db.rawQuery(countQuery, null);
    cursor.close();

    // return count
    return cursor.getCount();
}

// Updating single contact
public int updateLocation(Locations_viewer locations_viewer)
{
    SQLiteDatabase db = this.getWritableDatabase();

    ContentValues values = new ContentValues();
    values.put(KEY_LAT, locations_viewer.getLat());
    values.put(KEY_LON, locations_viewer.getLong());
    values.put(KEY_TIME, locations_viewer.getTime());
    Log.d("Latitude", locations_viewer.getLat());
    Log.d("Longitude", locations_viewer.getLong());
    Log.d("Time", locations_viewer.getTime());

    // updating row
    return db.update(TABLE_LOCATIONS, values, KEY_ID + " = ?", new String[] { String.valueOf(locations_viewer.getID()) });
}

// Deleting single contact
public void deleteLocation(Locations_viewer locations_viewer) {SQLiteDatabase db = this.getWritableDatabase();
db.delete(TABLE_LOCATIONS, KEY_ID + " = ?", new String[] { String.valueOf(locations_viewer.getID()) });
db.close();

}

```

```

public void deleteAll()
{
    SQLiteDatabase db=this.getWritableDatabase();
    db.delete(TABLE_LOCATIONS, null, null);
}
public void delete_byID(int id)
{
    SQLiteDatabase db=this.getWritableDatabase();
    db.delete(TABLE_LOCATIONS, KEY_ID+"="+id, null);
}

}

```

## ○ First\_Page

```

package com.amira.googlemaps;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;

public class First_Page extends Activity
{
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        // TODO Auto-generated method stub
        super.onCreate(savedInstanceState);
        setContentView(R.layout.first_page);
    }
    public void okay(View v)
    {
        Intent i = new Intent(getApplicationContext(), Login_page.class);
        startActivity(i);
    }
}

```

## ○ Friends\_Page

```

package com.amira.googlemaps;

import java.util.List;

import com.parse.FindCallback;
import com.parse.ParseException;
import com.parse.ParseObject;
import com.parse.ParseQuery;
import com.parse.ParseUser;

import android.app.Activity;
import android.app.AlertDialog;
import android.app.ProgressDialog;
import android.content.DialogInterface;

```

```

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.Toast;

public class Friends_page extends Activity
{
    ProgressDialog myPd_ring;
    ListView friends_list;
    List<ParseObject> loc_friend;
    String lat, lon;
    String Time;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        // TODO Auto-generated method stub
        super.onCreate(savedInstanceState);
        setContentView(R.layout.friends_page);
        friends_list = (ListView) findViewById(R.id.friends_list);
        final ArrayAdapter<String> my_adapter = new
        ArrayAdapter<String>(getApplicationContext(), android.R.layout.simple_list_item_1);

        myPd_ring=ProgressDialog.show(Friends_page.this, "Please wait", "Loading please
        wait..", true);
        myPd_ring.setCancelable(true);
        new Thread(new Runnable() {
            @Override
            public void run() {
                // TODO Auto-generated method stub
                try
                {
                    String our_Id=ParseUser.getCurrentUser().getUsername();
                    ParseQuery friends =new ParseQuery("Friends");
                    friends.whereEqualTo("UserId", our_Id);
                    friends.findInBackground(new FindCallback() {

                        @Override
                        public void done(List<ParseObject> arg0, ParseException arg1) {
                            my_adapter.clear();
                            // TODO Auto-generated method stub
                            for(ParseObject obj:arg0)
                            {
                                my_adapter.add(obj.getString("FriendId"));
                            }

                            my_adapter.notifyDataSetChanged();
                            friends_list.setAdapter(my_adapter);
                            myPd_ring.cancel();
                        }
                    });

                    Thread.sleep(5000);
                }catch(Exception e){}

                // myPd_ring.cancel();
            }
        }
    }
}

```

```

    }).start();

    friends_list.setOnItemClickListener(new OnItemClickListener() {

        @Override
        public void onItemClick(AdapterView<?> arg0, View arg1, int position,
            long arg3) {
            // TODO Auto-generated method stub

            String friend = friends_list.getItemAtPosition(position).toString();
            ParseQuery location = ParseUser.getQuery();
            location.whereEqualTo("username", friend);
            try {
                loc_friend=location.find();
            } catch (ParseException e) {
                // TODO Auto-generated catch block
                e.printStackTrace();
            }

            for(ParseObject obj:loc_friend)
            {
                lat=obj.getString("Latitude");
                lon=obj.getString("Longitude");
                Time = obj.getString("Time");

            }
            // DateFormat df = new SimpleDateFormat("MM/dd/yyyy HH:mm");
            // String new Time = df.format(Time);
            Toast.makeText(getApplicationContext(), "Time =" +Time,
            Toast.LENGTH_SHORT).show();

            Intent i = new Intent(Friends_page.this,G_Maps_Friends.class);
            i.putExtra("lat", lat);
            i.putExtra("lon", lon);
            i.putExtra("time", Time);
            startActivity(i);

        }
    });
}

@Override
public void onBackPressed() {
    // TODO Auto-generated method stub
    // super.onBackPressed();
    new AlertDialog.Builder(Friends_page.this)
        .setTitle("Are you sure,")
        .setMessage("Want to exit?")
        .setNegativeButton("No", new DialogInterface.OnClickListener() {

            @Override
            public void onClick(DialogInterface dialog, int which) {
                // TODO Auto-generated method stub
                dialog.dismiss();
            }
        })
        .setPositiveButton("Yes", new DialogInterface.OnClickListener() {

            @Override
            public void onClick(DialogInterface dialog_main, int which) {
                // TODO Auto-generated method stub

```



```

        dialog_main.dismiss();
        finish();
    }
    }).show();
}
}

```

## o GMaps

```

package com.amira.googlemaps;

import java.util.List;

import android.os.Build;
import android.os.Bundle;

import com.google.android.gms.maps.CameraUpdateFactory;
import com.google.android.gms.maps.GoogleMap;
import com.google.android.gms.maps.MapFragment;
import com.google.android.gms.maps.model.LatLng;
import com.google.android.gms.maps.model.MarkerOptions;
import android.annotation.TargetApi;
import android.app.Activity;
import android.view.Menu;

@TargetApi (Build.VERSION_CODES.HONEYCOMB)
public class G_Maps extends Activity {

    private GoogleMap mMap;
    Double latitude, longitude;
    LatLng CIU;
    List<Locations_viewer> location_list;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        MapFragment mpFragment= ((MapFragment)
getFragmentManager().findFragmentById(R.id.map));
        mMap=mpFragment.getMap();
        mMap.setMapType(GoogleMap.MAP_TYPE_HYBRID);

        final DatabaseHandlerActivity db = new
DatabaseHandlerActivity(getApplicationContext());
        location_list = db.getAllLocations();
        db.close();

        if(location_list.isEmpty())
        {
            // Toast.makeText(getApplicationContext(), "Pre-Location",
Toast.LENGTH_SHORT).show();
            // Calendar c = Calendar.getInstance();
            // SimpleDateFormat df = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
            // String formattedDate = df.format(c.getTime());

```

```

        CIU = new LatLng(10.523067500000000000, 76.222210599999920000);
        MapFragment mpFragment2= ((MapFragment)
getFragmentManager().findFragmentById(R.id.map));
        mMap=mpFragment2.getMap();
        mMap.setMapType(GoogleMap.MAP_TYPE_HYBRID);
        mMap.addMarker(new MarkerOptions()
            .position(CIU).title("Location").snippet("Latitude=10.52306750,
Longitude=76.22221059999992"));

    }
    else{

        for(Locations_viewer locations_viewer:location_list)
        {
            latitude = Double.parseDouble(locations_viewer.getLat());
            longitude= Double.parseDouble(locations_viewer.getLong());
            CIU = new LatLng(latitude, longitude);
            mMap.addMarker(new MarkerOptions()

                .position(CIU).title("Location").snippet("Latitude="+locations_viewer.getLat()+"",
Longitude="+locations_viewer.getLong()));
        }

        mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(CIU, 10));
        mMap.animateCamera(CameraUpdateFactory.zoomTo(10),2000,null);
    }

    @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;
    }
}

```

## ○ GMaps Friends

```
package com.amira.googlemaps;

import android.os.Build;
import android.os.Bundle;

import com.google.android.gms.maps.CameraUpdateFactory;
import com.google.android.gms.maps.GoogleMap;
import com.google.android.gms.maps.MapFragment;
import com.google.android.gms.maps.model.LatLng;
import com.google.android.gms.maps.model.MarkerOptions;
import android.annotation.TargetApi;
import android.app.Activity;

@TargetApi (Build.VERSION_CODES.HONEYCOMB)
public class G_Maps_Friends extends Activity {

    private GoogleMap mMap;
    Double latitude, longitude;
    String Time;
    LatLng CIU;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        String lat = getIntent().getStringExtra("lat");
        String lon = getIntent().getStringExtra("lon");
        Time = getIntent().getStringExtra("time");
        latitude = Double.parseDouble(lat);
        longitude = Double.parseDouble(lon);

        MapFragment mpFragment= ((MapFragment)
getFragmentManager().findFragmentById(R.id.map));
        mMap=mpFragment.getMap();
        mMap.setMapType(GoogleMap.MAP_TYPE_HYBRID);
        CIU = new LatLng(latitude, longitude);
        MapFragment mpFragment2= ((MapFragment)
getFragmentManager().findFragmentById(R.id.map));
        mMap=mpFragment2.getMap();
        mMap.setMapType(GoogleMap.MAP_TYPE_HYBRID);

        mMap.addMarker(new MarkerOptions()
            .position(CIU).title("Location").snippet("Latitude="+lat+" Longitude="+lon));

        mMap.moveCamera(CameraUpdateFactory.newLatLngZoom(CIU, 10));
        mMap.animateCamera(CameraUpdateFactory.zoomTo(10),2000,null);
    }
}
```

## o Location Viewer

```
package com.amira.googlemaps;

public class Locations_viewer
{

    int id;
    String Latitude;
    String Longitude;
    String Time;

    //empty constructor
    public Locations_viewer()
    {

    }

    public Locations_viewer(int _id,String lat,String longi,String time)
    {
        this.id=_id;
        this.Latitude=lat;
        this.Longitude=longi;
        this.Time=time;
    }

    public Locations_viewer(String lat,String longi,String time)
    {
        this.Latitude=lat;
        this.Longitude=longi;
        this.Time=time;
    }

    public int getID(){
        return this.id;
    }

    // setting id
    public void setID(int id){
        this.id = id;
    }

    // getting name
    public String getLat(){
        return this.Latitude;
    }

    // setting lat
    public void setLAt(String lat)
    {
        this.Latitude = lat;
    }

    // getting long
    public String getLong(){
        return this.Longitude;
    }

    // setting phone number
    public void setLongi(String Longi){
        this.Longitude = Longi;
    }
}
```

```

    }
    // getting time
    public String getTime(){
        return this.Time;
    }

    // setting time
    public void setTime(String time){
        this.Time = time;
    }
}

```

## o Login\_Page

```

package com.amira.googlemaps;

import com.parse.LogInCallback;
import com.parse.ParseException;
import com.parse.ParseUser;

import android.os.Bundle;
import android.app.Activity;
import android.app.AlertDialog;
import android.app.ProgressDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class Login_page extends Activity
{
    EditText userField, passField;
    String username, password;
    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        super.onCreate(savedInstanceState);

        ParseUser currentUser = ParseUser.getCurrentUser();
        if (currentUser != null) {
            // do stuff with the user
            Intent i=new Intent(getApplicationContext(),MainPage.class);
            startActivity(i);
        }
        else
        {
            setContentView(R.layout.login_page);
            userField = (EditText) findViewById(R.id.username);
            passField = (EditText) findViewById(R.id.password);
        }
    }

    public void login(View v)
    {

```

```

username = userField.getText().toString().trim();
password = passField.getText().toString().trim();

final ProgressDialog mDialog = new ProgressDialog(this);
mDialog.setMessage("Login Progress..");

mDialog.show();

ParseUser.logInInBackground(username, password,
    new LogInCallback() {

        @Override
        public void done(ParseUser user, ParseException e) {
            if (user != null) {
                // Hooray! The user is logged in.

                mDialog.cancel();
                Toast toast = Toast.makeText(
                    getApplicationContext(),
                    "Successfull Login! ",
                    Toast.LENGTH_LONG);
                toast.show();

                Intent signupScreen = new Intent(getApplicationContext(),
                    MainPage.class);
                startActivity(signupScreen);

            } else {

                mDialog.cancel();
                // Signup failed. Look at the ParseException
                // to see what happened.

                AlertDialog.Builder builder = new AlertDialog.Builder(Login_page.this);
                builder.setMessage(e.getMessage())
                    .setCancelable(false)

                    .setNegativeButton("Ok!", new DialogInterface.OnClickListener() {
                        public void onClick(DialogInterface dialog, int id) {
                            dialog.cancel();
                        }
                    });
                AlertDialog alert = builder.create();
                alert.show();

            }

        }

    });

}

public void signup(View v)
{
    Intent i = new Intent(getApplicationContext(), SignUp.class);
    startActivity(i);
}

```

```
}  
}
```

## ○ Main\_Page

```
package com.amira.googlemaps;  
  
import java.text.DateFormat;  
import java.text.SimpleDateFormat;  
import java.util.Calendar;  
import java.util.Date;  
  
import com.parse.ParseUser;  
  
import android.app.TabActivity;  
import android.content.Context;  
import android.content.Intent;  
import android.content.res.Resources;  
import android.location.Location;  
import android.location.LocationListener;  
import android.location.LocationManager;  
import android.os.Bundle;  
import android.view.Menu;  
import android.view.MenuItem;  
import android.widget.TabHost;  
import android.widget.Toast;  
  
@SuppressWarnings("deprecation")  
public class MainPage extends TabActivity  
{  
  
    LocationManager locmgr;  
    Location our_location;  
    Double L1 = 10.000886500000000000; // setting an initial latitude.  
    Double L2 = 76.299572799999960000;  
    LocationListener loclis;  
  
    @Override  
    protected void onCreate(Bundle savedInstanceState) {  
        // TODO Auto-generated method stub  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.mainpage);  
  
        Resources re=getResources();  
        TabHost th=getTabHost();  
        TabHost.TabSpec spec;  
        Intent i;  
  
        locmgr=(LocationManager)getSystemService(Context.LOCATION_SERVICE);  
        loclis =new MyLocationListner();  
        our_location=locmgr.getLastKnownLocation(LocationManager.NETWORK_PROVIDER);  
        locmgr.requestLocationUpdates( LocationManager.NETWORK_PROVIDER, 0, 0,loclis);  
    }  
}
```

```

i=new Intent(this,Profile.class).addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);

spec = th.newTabSpec("tab1").setIndicator("",re.getDrawable(R.drawable.users_newone)).setContent(i);
th.addTab(spec);

i=new Intent(this,Friends_page.class).addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);

spec = th.newTabSpec("tab2").setIndicator("",re.getDrawable(R.drawable.friend_list_new)).setContent(i);
th.addTab(spec);

i=new Intent(this,Notification_new.class).addFlags(Intent.FLAG_ACTIVITY_CLEAR_TOP);

spec = th.newTabSpec("tab3").setIndicator("",re.getDrawable(R.drawable.notification  )).setContent(i);
th.addTab(spec);

th.setCurrentTab(0);

}

```

```

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

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    // TODO Auto-generated method stub
    switch(item.getItemId())
    {
        case R.id.logout_menu:
        {
            ParseUser.logout();
            Toast.makeText(this, "Please Log In, to continue", Toast.LENGTH_SHORT).show();
            Intent i =new Intent(getApplicationContext(),Login_page.class);
            startActivity(i);
            MainPage.this.finish();
            break;
        }

        case R.id.history_menu:
            Intent i = new Intent(this,G_Maps.class);
            startActivity(i);
            break;
    }
}

```



```

    return true;
}

public class MyLocationListner implements LocationListener{

    @Override
    public void onLocationChanged(Location location)
    {
        // TODO Auto-generated method stub
        L1=location.getLatitude();
        L2=location.getLongitude();
        String currentDateTimeString = DateFormat.getDateInstance().format(new Date());
        // Toast.makeText(getApplicationContext(), currentDateTimeString, Toast.LENGTH_SHORT).show();
        DatabaseHandlerActivity db = new DatabaseHandlerActivity(getApplicationContext());
        db.addLocation(new Locations_viewer(L1.toString(), L2.toString(), currentDateTimeString));

        Toast.makeText(getApplicationContext(), "New Location " + "Latitude =" + L1 +
            " Longitude =" + L2, Toast.LENGTH_LONG).show();

        Calendar c = Calendar.getInstance();
        SimpleDateFormat df = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
        String formattedDate = df.format(c.getTime());

        ParseUser.getCurrentUser().put("Latitude", L1.toString());
        ParseUser.getCurrentUser().put("Longitude", L2.toString());

        ParseUser.getCurrentUser().put("Time", formattedDate);

        ParseUser.getCurrentUser().saveInBackground();

        // Toast.makeText(getApplicationContext(), "Latitude =" + L1, Toast.LENGTH_LONG).show();
        // Toast.makeText(getApplicationContext(), "Longitude =" + L2, Toast.LENGTH_LONG).show();

    }

    @Override
    public void onProviderDisabled(String provider) {
        // TODO Auto-generated method stub
    }

    @Override
    public void onProviderEnabled(String provider) {
        // TODO Auto-generated method stub
    }

    @Override

```

```

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

    }
}

```

## o Notification

```

package com.amira.googlemaps;

import java.util.ArrayList;
import java.util.List;

import com.parse.FindCallback;
import com.parse.ParseException;
import com.parse.ParseObject;
import com.parse.ParseQuery;
import com.parse.ParseUser;

import android.app.Activity;
import android.app.AlertDialog;
import android.app.ProgressDialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;

public class Notification_new extends Activity {

    ArrayAdapter<String> noti_adapter;
    ProgressDialog myPd_ring;
    ListView list_notification;
    TextView Noti_text;
    ArrayList<ParseObject> obj_notification = new ArrayList<ParseObject>();

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        // TODO Auto-generated method stub
        super.onCreate(savedInstanceState);
        setContentView(R.layout.notification);
        noti_adapter = new ArrayAdapter<String>(getApplicationContext(),
        android.R.layout.simple_list_item_1);
        list_notification = (ListView) findViewById(R.id.list_notification);
        Noti_text = (TextView) findViewById(R.id.Noti_text);

        myPd_ring=ProgressDialog.show(Notification_new.this, "Please wait", "Loading
        please wait..", true);
        myPd_ring.setCancelable(true);
        new Thread(new Runnable() {

            @Override
            public void run() {

```

```

        // TODO Auto-generated method stub

        try {
            ParseQuery myquery = new ParseQuery("Request");
            myquery.whereEqualTo("UserId",
ParseUser.getCurrentUser().getUsername());
            myquery.findInBackground(new FindCallback() {

                @Override
                public void done(List<ParseObject> arg0, ParseException arg1) {
                    // TODO Auto-generated method stub
                    for(ParseObject obj:arg0)
                    {
                        noti_adapter.add(obj.getString("RequestingId"));
                        obj_notification.add(obj);
                    }

                    noti_adapter.notifyDataSetChanged();

                    if(noti_adapter.isEmpty())
                    {
                        Noti_text.setText("No Notifications!");
                    }

                    list_notification.setAdapter(noti_adapter);

                    myPd_ring.dismiss();

                }
            });

            Thread.sleep(5000);
        } catch (InterruptedException e) {
            // TODO Auto-generated catch block
            e.printStackTrace();
        }

    }

    }).start();

    list_notification.setOnItemClickListener(new OnItemClickListener() {

        @Override
        public void onItemClick(AdapterView<?> arg0, View arg1, final int position,
long arg3)
        {
            // TODO Auto-generated method stub

            AlertDialog.Builder builder = new
AlertDialog.Builder(Notification_new.this);
            builder.setMessage("Would you like to add
"+noti_adapter.getItem(position)+" as your friend?")
                .setCancelable(false)

                .setPositiveButton("Yes", new DialogInterface.OnClickListener() {

```

```

        @Override
        public void onClick(DialogInterface dialog, int which) {
            // TODO Auto-generated method stub

            String our_Name = ParseUser.getCurrentUser().getUsername();
            ParseObject Request = new ParseObject("Friends");
            Request.put("UserId", our_Name);
            Request.put("FriendId", noti_adapter.getItem(position));
            Request.saveEventually();
            ParseObject Request_relation = new ParseObject("Friends");
            Request_relation.put("UserId", noti_adapter.getItem(position));
            Request_relation.put("FriendId", our_Name);
            Request_relation.saveInBackground();
            Toast.makeText(getApplicationContext(), "You are now friends with
            "+noti_adapter.getItem(position), Toast.LENGTH_SHORT).show();

        }
    })
    .setNegativeButton("No", new DialogInterface.OnClickListener() {
        public void onClick(DialogInterface dialog, int id) {
            dialog.cancel();
        }
    });
    AlertDialog alert = builder.create();
    alert.show();

    obj_notification.get(position).deleteEventually();

});
}
}
}

```

## ○ Parse Application

```

package com.amira.googlemaps;

import com.parse.Parse;
import android.app.Application;

public class ParseApplication extends Application {
    @Override
    public void onCreate() {
        // TODO Auto-generated method stub
        super.onCreate();
        Parse.initialize(this, "cOF2YCY3vHAJeG0Y2fkVDxW4TXXcqjpkZfXCKnU5",
            "We0vj4xAh2MSGy3Xxofq0q3CpnqXpF8QNSDpCtr");
    }
}

```

## ○ Profile

```

package com.amira.googlemaps;

import java.util.ArrayList;

```

```

import java.util.List;

import com.parse.FindCallback;
import com.parse.ParseException;
import com.parse.ParseObject;
import com.parse.ParseQuery;
import com.parse.ParseUser;

import android.app.Activity;
import android.app.AlertDialog;
import android.app.ProgressDialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;

public class Profile extends Activity
{
    Boolean req_status=false;
    Boolean noti_status=false;
    String username, email;
    TextView name, mail;
    EditText search;
    ListView SearchList;
    ArrayAdapter<String> Adapter;
    // ArrayList<String> friends_Id = new ArrayList<String>();
    ProgressDialog myPd_ring;
    volatile Boolean check_delay=true;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        // TODO Auto-generated method stub
        super.onCreate(savedInstanceState);
        setContentView(R.layout.profile_page);

        search = (EditText)findViewById(R.id.search);
        SearchList=(ListView)findViewById(R.id.search_list);

        name = (TextView)findViewById(R.id.user);
        mail = (TextView)findViewById(R.id.email);

        username = ParseUser.getCurrentUser().getUsername();
        email = ParseUser.getCurrentUser().getEmail();

        name.setText(username);
        mail.setText(email);
    }
    public void search_method(View v)
    {

```

```

        Adapter=new ArrayAdapter<String>(getApplicationContext(),
android.R.layout.simple_list_item_1);
        if(Adapter.isEmpty()==false)
            Adapter.clear();
        final String search_item=search.getText().toString().trim();

        myPd_ring=ProgressDialog.show(Profile.this, "Please wait", "Loading please
wait..", true);
        myPd_ring.setCancelable(true);
        new Thread(new Runnable() {
            @Override
            public void run() {
                // TODO Auto-generated method stub
                try
                {
                    ParseQuery match =ParseUser.getQuery();
                    match.whereEqualTo("username", search_item);
                    match.findInBackground(new FindCallback() {
                        public void done(List<ParseObject> objects, ParseException e) {
                            if (e == null) {
                                // The query was successful.
                                for(ParseObject i: objects){

                                    Adapter.add(i.getString("username"));

                                }

                                set_search_list();
                            } else {
                                // Something went wrong.
                            }
                        }
                    });

                    Thread.sleep(5000);
                }catch(Exception e){}

                // myPd_ring.cancel();
            }
        }).start();

    }

    public void set_search_list()
    {

        if(Adapter.isEmpty()){

            myPd_ring.cancel();
            AlertDialog.Builder builder = new AlertDialog.Builder(Profile.this);
            builder.setMessage("No Results Found")
                .setCancelable(false)

```

```

        .setNegativeButton("Ok!", new DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog, int id) {
                dialog.cancel();
            }
        });
        AlertDialog alert = builder.create();
        alert.show();
    }

    myPd_ring.cancel();
    Adapter.notifyDataSetChanged();

    SearchList.setAdapter(Adapter);

    SearchList.setOnItemClickListener(new OnItemClickListener() {

        @Override
        public void onItemClick(AdapterView<?> arg0, View arg1, int position,
            long arg3) {
            // TODO Auto-generated method stub

            String our_name = ParseUser.getCurrentUser().getUsername();

            //Checking whether friend is already added
            Check_friend(position,our_name);

        }

    });
}

public Boolean Check_notification(int position,String our_name)
{

    ParseQuery noti_1 = new ParseQuery("Request");
    noti_1.whereEqualTo("UserId", Adapter.getItem(position));
    noti_1.whereEqualTo("RequestingId", our_name);

    ParseQuery noti_2 = new ParseQuery("Request");
    noti_2.whereEqualTo("UserId", our_name);
    noti_2.whereEqualTo("RequestingId", Adapter.getItem(position));

    List<ParseQuery> queries = new ArrayList<ParseQuery>();
    queries.add(noti_1);
    queries.add(noti_2);

    ParseQuery mainQuery = ParseQuery.or(queries);
    mainQuery.findInBackground(new FindCallback() {
        public void done(List<ParseObject> results, ParseException e) {

```

```

        noti_status=results.isEmpty();//true if empty

    }

});

    return noti_status;
}

public void Check_friend(final int position, final String our_name)
{
    final ProgressDialog obj_dlg=new ProgressDialog(Profile.this);
    obj_dlg.setMessage("Please wait");
    obj_dlg.setCancelable(true);
    obj_dlg.show();
    new Thread(new Runnable() {

        @Override
        public void run() {
            // TODO Auto-generated method stub
            ParseQuery friend_query = new ParseQuery("Friends");

            friend_query.whereEqualTo("UserId", our_name);
            friend_query.whereEqualTo("FriendId", Adapter.getItem(position));
            friend_query.findInBackground(new FindCallback() {

                @Override
                public void done(List<ParseObject> friends, ParseException arg1) {
                    // TODO Auto-generated method stub

                    req_status=friends.isEmpty(); //true if empty
                    Toast.makeText(getApplicationContext(), "friends status=
"+req_status.toString(), Toast.LENGTH_LONG).show();

                    if(req_status==false)
                    {
                        obj_dlg.cancel();
                        AlertDialog.Builder build = new
AlertDialog.Builder(Profile.this);
                        build.setMessage("You are already friends with
"+Adapter.getItem(position)+"!")
                        .setCancelable(false)
                        .setPositiveButton("Ok", new DialogInterface.OnClickListener()
{

                            @Override
                            public void onClick(DialogInterface dia, int which) {
                                // TODO Auto-generated method stub
                                dia.dismiss();
                            }
                        }).show();
                    }

                    else{
                        obj_dlg.cancel();

```



```

        send_request(position);
    }

    }

    });

    }
    }).start();

}

public void send_request(final int position)
{
    AlertDialog.Builder builder = new AlertDialog.Builder(Profile.this);
    builder.setMessage("Do you want to add "+Adapter.getItem(position)+" as your
friend?")
        .setCancelable(false)

        .setPositiveButton("Yes", new DialogInterface.OnClickListener() {

            @Override
            public void onClick(DialogInterface dialog, int which) {
                // TODO Auto-generated method stub
                String our_Name = ParseUser.getCurrentUser().getUsername();
                ParseObject Request = new ParseObject("Request");

                Request.put("UserId",Adapter.getItem(position));
                Request.put("RequestingId", our_Name);
                Request.saveInBackground();
                Toast.makeText(getApplicationContext(), "Request sent",
Toast.LENGTH_SHORT).show();

            }
        })
        .setNegativeButton("No", new DialogInterface.OnClickListener() {
            public void onClick(DialogInterface dialog, int id) {
                dialog.cancel();
            }
        });
    AlertDialog alert = builder.create();
    alert.show();
}

@Override
public void onBackPressed() {

```

```

// TODO Auto-generated method stub
// super.onBackPressed();
new AlertDialog.Builder(Profile.this)
.setTitle("Are you sure,")
.setMessage("Want to exit?")
.setNegativeButton("No", new DialogInterface.OnClickListener() {

    @Override
    public void onClick(DialogInterface dialog, int which) {
        // TODO Auto-generated method stub
        dialog.dismiss();
    }
})
.setPositiveButton("Yes", new DialogInterface.OnClickListener() {

    @Override
    public void onClick(DialogInterface dialog_main, int which) {
        // TODO Auto-generated method stub
        dialog_main.dismiss();
        finish();
    }
}).show();
}
}

```

## ○ Sign\_up

```

package com.amira.googlemaps;

import java.text.SimpleDateFormat;
import java.util.Calendar;

import com.parse.ParseException;
import com.parse.ParseUser;
import com.parse.SignUpCallback;

import android.app.Activity;
import android.app.AlertDialog;
import android.app.ProgressDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class SignUp extends Activity
{
    EditText usernameField, passwordField, emailField;
    String username, password, email;

    @Override
    protected void onCreate(Bundle savedInstanceState)
    {
        // TODO Auto-generated method stub
        super.onCreate(savedInstanceState);
        setContentView(R.layout.signup_page);
        usernameField = (EditText) findViewById(R.id.username);
        passwordField = (EditText) findViewById(R.id.password);
    }
}

```

```

        emailField = (EditText)findViewById(R.id.email);
    }
    public void sign_up(View v)
    {
        if (usernameField.getText().length()>0) {
            if (passwordField.getText().length()>0) {
                if (emailField.getText().length()>0) {

                    username = usernameField.getText().toString().trim();
                    password = passwordField.getText().toString().trim();
                    email = emailField.getText().toString().trim();

                    ParseUser user = new ParseUser();
                    user.setUsername(username);
                    user.setPassword(password);
                    user.setEmail(email);
                    user.put("Latitude", "10.523067500000000000");
                    user.put("Longitude", "76.22221059999920000");

                    Calendar c = Calendar.getInstance();
                    SimpleDateFormat df = new SimpleDateFormat("yyyy-MM-dd HH:mm:ss");
                    String formattedDate = df.format(c.getTime());

                    user.put("Time", formattedDate);

//                    user.put("SimSerialNumber", simSerialNumber);
//                    user.put("UniqueNumber", uniqueNumber);

                    final ProgressDialog mDialog = new ProgressDialog(
                        SignUp.this);
                    mDialog.setMessage("Signing Up..");

                    mDialog.show();

                    user.signUpInBackground(new SignUpCallback() {
                        public void done(ParseException e) {

                            mDialog.cancel();

                            if (e == null) {
                                Toast toast = Toast.makeText(
                                    getApplicationContext(),
                                    "Successful signUp! ",
                                    Toast.LENGTH_LONG);
                                toast.show();
                                Intent signupScreen = new Intent(
                                    getApplicationContext(),
                                    Login_page.class);
                                startActivity(signupScreen);
                                // Hooray! Let them use the app now.
                            } else {

                                AlertDialog.Builder builder = new AlertDialog.Builder(
                                    SignUp.this);
                                builder.setMessage(e.getMessage())
                                    .setCancelable(false)

```

```

        .setNegativeButton(
            "Ok!",
            new DialogInterface.OnClickListener() {
                public void onClick(
                    DialogInterface dialog,
                    int id) {
                    dialog.cancel();
                }
            });
        AlertDialog alert = builder.create();
        alert.show();

        // Sign up didn't succeed. Look at the
        // ParseException
        // to figure out what went wrong
    }
}

}

else
{
    Toast toast = Toast.makeText(getApplicationContext(),
        "Please enter an email! ", Toast.LENGTH_LONG);
    toast.show();
}

}

else {
    Toast toast = Toast.makeText(getApplicationContext(),
        "Please enter a password! ", Toast.LENGTH_LONG);
    toast.show();
}

}

} else {
    Toast toast = Toast.makeText(getApplicationContext(),
        "Please enter a valid username! ",
        Toast.LENGTH_LONG);
    toast.show();
}

}

}

```

## References:

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