**Report of Lab-2 Assignment (CS-560)**

**By Vidhi Shah**

**Student ID: 16178723**

**Report on**

**Android application using Google map service**

Report content

* Code of AndroidManifest.xml file
* Code of Mainactivity.xml file
* Code of Mainactivity.java file
* Reference

**In this application, City of India’s location is stored on button’s click event and as soon as user click that button , location of city will be appear. Here, in this project I have stored the latitude and longitude of Ahmedabad which is one of the cities of India.**

1. Code of AndroidManifest.xml file

<?xml version=*"1.0"* encoding=*"utf-8"*?>

<manifest xmlns:android=*"http://schemas.android.com/apk/res/android"*

package=*"com.example.assignmnt"*

android:versionCode=*"1"*

android:versionName=*"1.0"* >

<uses-sdk

android:minSdkVersion=*"11"*

android:targetSdkVersion=*"17"* />

<permission

android:name=*"com.example.assignmnt.permission.MAPS\_RECEIVE"*

android:protectionLevel=*"signature"*/>

<uses-permission android:name=*"com.example.assignmnt.permission.MAPS\_RECEIVE"*/>

<uses-permission android:name=*"android.permission.INTERNET"*/>

<uses-permission android:name=*"android.permission.ACCESS\_NETWORK\_STATE"*/>

<uses-permission android:name=*"android.permission.WRITE\_EXTERNAL\_STORAGE"*/>

<uses-permission android:name=*"com.google.android.providers.gsf.permission.READ\_GSERVICES"*/>

<!-- The following two permissions are not required to use

Google Maps Android API v2, but are recommended. -->

<uses-permission android:name=*"android.permission.ACCESS\_COARSE\_LOCATION"*/>

<uses-permission android:name=*"android.permission.ACCESS\_FINE\_LOCATION"*/>

<uses-feature

android:glEsVersion=*"0x00020000"*

android:required=*"true"*/>

<application

android:allowBackup=*"true"*

android:icon=*"@drawable/ic\_launcher"*

android:label=*"@string/app\_name"*

android:theme=*"@style/AppTheme"* >

<meta-data

android:name=*"com.google.android.maps.v2.API\_KEY"*

android:value=*"AIzaSyBdVl-cTICSwYKrZ95SuvNw7dbMuDt1KG0"*/>

<activity

android:name=*"com.example.assignmnt.MainActivity"*

android:label=*"@string/app\_name"* >

<intent-filter>

<action android:name=*"android.intent.action.MAIN"* />

<category android:name=*"android.intent.category.LAUNCHER"* />

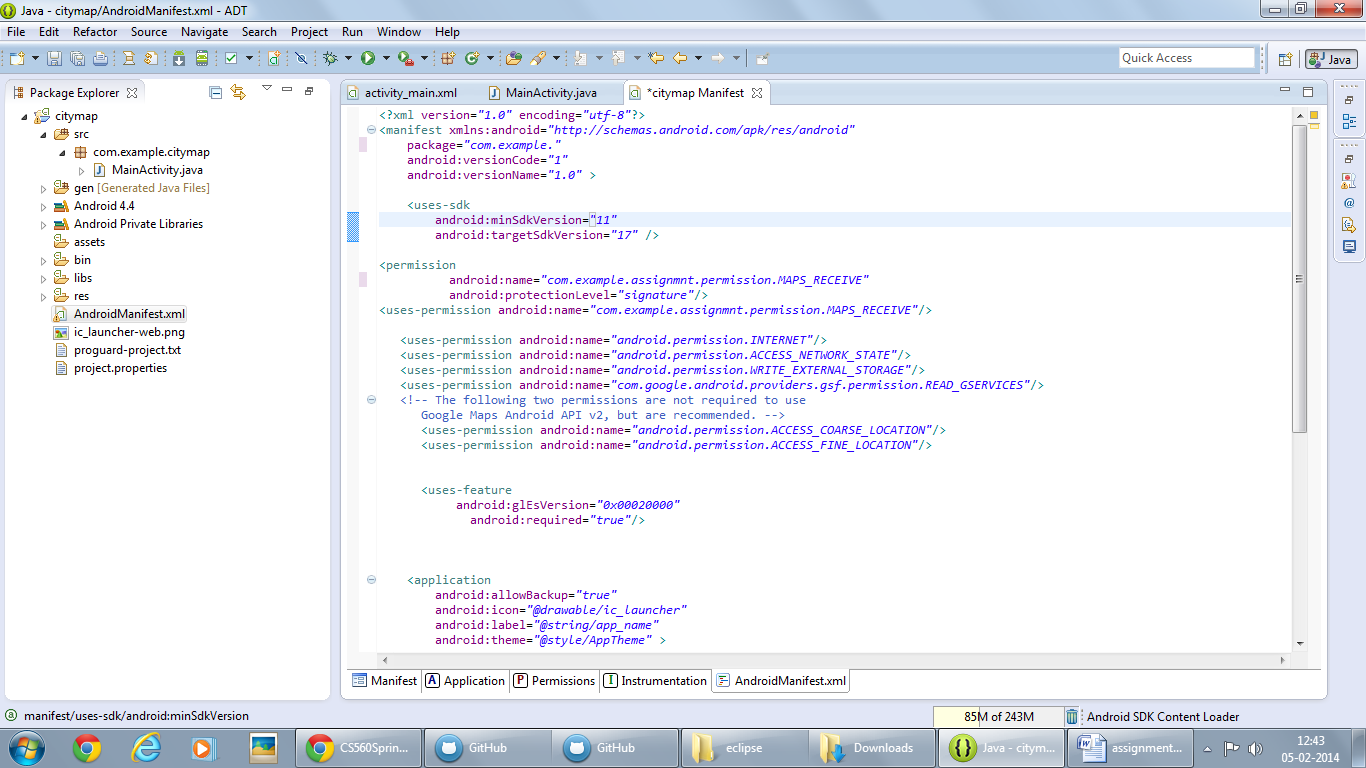
</intent-filter>

</activity>

</application>

</manifest>

Screenshot:



1. Code of Mainactivity.xml file

<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=*".MainActivity"* >

<fragment

android:id=*"@+id/map"*

android:name=*"com.google.android.gms.maps.MapFragment"*

android:layout\_width=*"match\_parent"*

android:layout\_height=*"match\_parent"*

android:layout\_below=*"@+id/indAbad"* />

<Button

android:id=*"@+id/indCity"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:minHeight=*"35dp"*

android:onClick=*"onClick\_indCity"*

android:text=*"City"*

android:textAlignment=*"textStart"*/>

<Button

android:id=*"@+id/indAbad"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignRight=*"@+id/header"*

android:layout\_alignTop=*"@+id/header"*

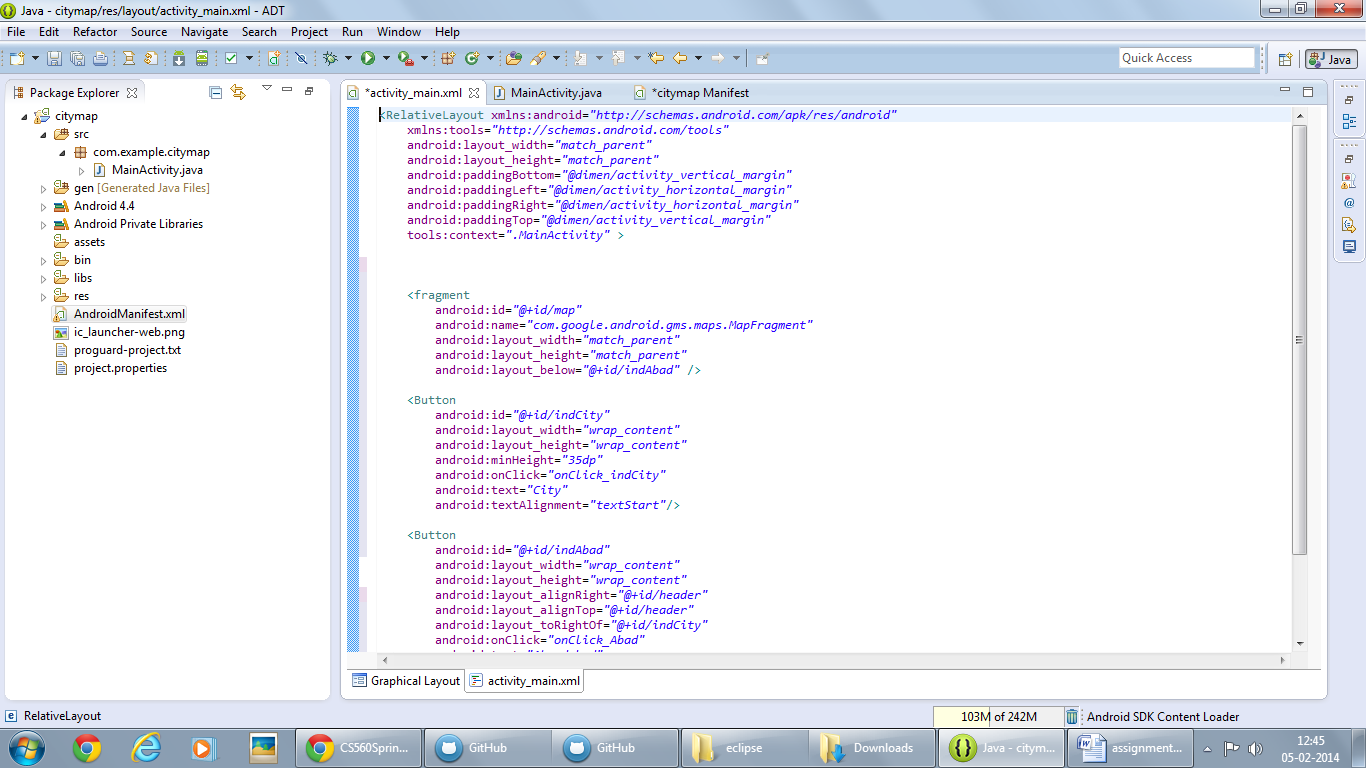
android:layout\_toRightOf=*"@+id/indCity"*

android:onClick=*"onClick\_Abad"*

android:text=*"Ahmedabad"*

android:textSize=*"20dp"* />

</RelativeLayout>



1. Code of Mainactivity.java file

package com.example.assignmnt;

import android.os.Bundle;

import android.app.Activity;

import android.view.Menu;

import android.view.View;

import com.google.android.gms.maps.CameraUpdate;

import com.google.android.gms.maps.MapFragment;

import com.google.android.gms.maps.CameraUpdateFactory;

import com.google.android.gms.maps.GoogleMap;

import com.google.android.gms.maps.model.LatLng;

public class MainActivity extends Activity {

private final LatLng ABAD=new LatLng(23.051935,72.565277);

private GoogleMap map;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

map=((MapFragment) getFragmentManager().findFragmentById(R.id.map)).getMap();

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

getMenuInflater().inflate(R.menu.main, menu);

return true;

}

public void onClick\_indCity(View v){

map.setMapType(GoogleMap.MAP\_TYPE\_SATELLITE);

CameraUpdate update=CameraUpdateFactory.newLatLng(ABAD);

map.animateCamera(update);

}

public void onClick\_ABAD(View v){

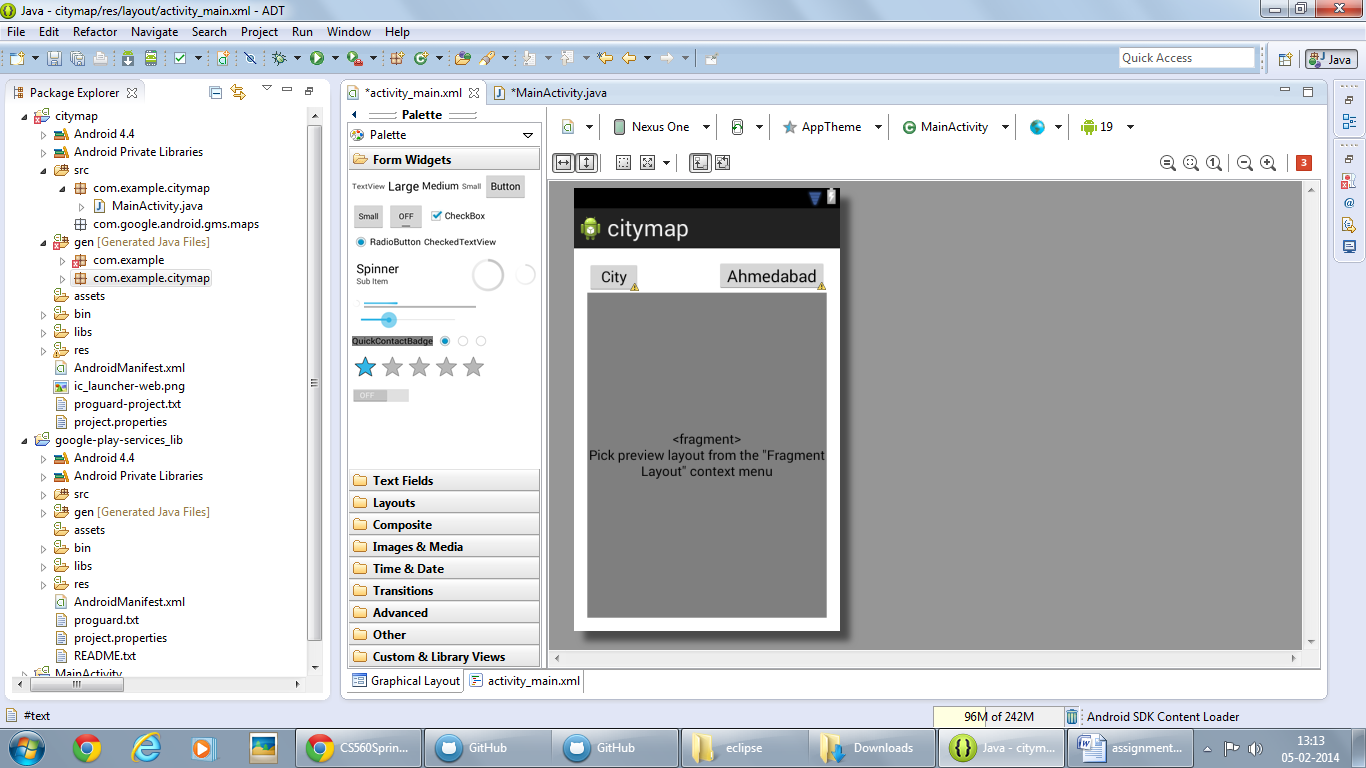
map.setMapType(GoogleMap.MAP\_TYPE\_SATELLITE);

CameraUpdate update=CameraUpdateFactory.newLatLng(ABAD);

map.animateCamera(update);

}

}



1. References:
2. <https://developers.google.com/maps/documentation/android/start>
3. <http://www.youtube.com/watch?v=B0sCahhT_A4>
4. <http://www.youtube.com/watch?v=awX5T-EwLPc>

End