The main activity’s XML FILE:

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

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

xmlns:app="http://schemas.android.com/apk/res-auto"

xmlns:tools="http://schemas.android.com/tools"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="horizontal"

tools:context=".MainActivity">

<fragment

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/fragment1"

android:layout\_weight="1"

class="com.example.it.p2lab.Fragment1"

/>

<FrameLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/fragment2"

android:layout\_weight="1"></FrameLayout>

<fragment

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/fragg"

android:layout\_weight="1"

class="com.example.it.p2lab.Fragment3"

/>

</LinearLayout>

The main activity.java file:

package com.example.it.p2lab;

import android.content.Intent;

import android.content.IntentFilter;

import android.support.v4.app.FragmentManager;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

public class MainActivity extends AppCompatActivity implements Communication {

MyReceiver myReceiver ;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

}

public void respond(String i) {

FragmentManager fm=

getSupportFragmentManager();

Fragment3 f3= (Fragment3)fm.

findFragmentById(R.id.fragg);

f3.changedata(i);

}

}

Fagment1 XML FIle:

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

<FrameLayout 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"

tools:context=".Fragment1">

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/button1"

android:text="Click me for contacts"/>

</FrameLayout>

Fragment1 Java File:

package com.example.it.p2lab;

import android.content.Context;

import android.net.Uri;

import android.os.Bundle;

import android.support.v4.app.Fragment;

import android.support.v4.app.FragmentManager;

import android.support.v4.app.FragmentTransaction;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

public class Fragment1 extends Fragment {

View view;

Button b1;

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

view=inflater.inflate(R.layout.fragment\_fragment1, container, false);

b1=view.findViewById(R.id.button1);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

loadFragment(new Fragment2());

}

});

return view;

}

private void loadFragment(Fragment fragment) {

FragmentManager fm=getFragmentManager();

FragmentTransaction ft=fm.beginTransaction();

ft.replace(R.id.fragment2,fragment);

ft.commit();

}

}

Fragment2 XML File:

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

<FrameLayout 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"

tools:context=".Fragment2">

<!-- TODO: Update blank fragment layout -->

<ListView

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/lv">

</ListView>

</FrameLayout>

Fragment2 Java File:

package com.example.it.p2lab;

import android.content.ContentResolver;

import android.content.Context;

import android.content.Intent;

import android.database.Cursor;

import android.net.Uri;

import android.os.Bundle;

import android.provider.ContactsContract;

import android.support.v4.app.Fragment;

import android.support.v4.app.FragmentManager;

import android.support.v4.app.FragmentTransaction;

import android.view.ContextMenu;

import android.view.LayoutInflater;

import android.view.MenuInflater;

import android.view.MenuItem;

import android.view.View;

import android.view.ViewGroup;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.ListView;

import android.widget.SimpleAdapter;

import android.widget.TextView;

import android.widget.Toast;

import java.util.ArrayList;

import java.util.HashMap;

import java.util.List;

import java.util.Map;

public class Fragment2 extends Fragment{

View view;

ListView lv;

Communication comm;

TextView phonetv;

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

// Inflate the layout for this fragment

view= inflater.inflate(R.layout.fragment\_fragment2, container, false);

lv = view.findViewById(R.id.lv);

comm= (Communication) Fragment2.this.getActivity();

ContentResolver cr = getActivity().getContentResolver();

Cursor c = cr.query(ContactsContract.CommonDataKinds.Phone.CONTENT\_URI, null, null, null, null);

List<Map<String, String>> list = new ArrayList<>();

HashMap<String,String> map ;

if (c.moveToFirst()) {

do {

// numbers.add(c.getString(c.getColumnIndex(ContactsContract.CommonDataKinds.Phone.NUMBER)));

// contacts.add(c.getString((c.getColumnIndex(ContactsContract.CommonDataKinds.Phone.DISPLAY\_NAME))));

map = new HashMap<String, String>();

map.put("numbers", c.getString(c.getColumnIndex(ContactsContract.CommonDataKinds.Phone.NUMBER)));

map.put("contacts", c.getString((c.getColumnIndex(ContactsContract.CommonDataKinds.Phone.DISPLAY\_NAME))));

list.add(map);

} while (c.moveToNext());

}

String [] from = {"contacts", "numbers"};

int [] to = {android.R.id.text1,

android.R.id.text2};

SimpleAdapter ad = new SimpleAdapter(Fragment2.this.getActivity(), list,android.R.layout.simple\_list\_item\_2, from,to);

lv.setAdapter(ad);

lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {

@Override

public void onItemClick(AdapterView<?> parent, View view, int position, long id) {

phonetv=view.findViewById(android.R.id.text2);

//Toast.makeText(MainActivity.this, contactstv.getText().toString(), Toast.LENGTH\_SHORT).show();

comm.respond(phonetv.getText().toString());

// Intent intent=new Intent(Intent.ACTION\_DIAL, Uri.parse("tel:"+phonetv.getText().toString()));

// startActivity(intent);

}

});

registerForContextMenu(lv);

return view;

}

@Override

public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {

super.onCreateContextMenu(menu, v, menuInfo);

MenuInflater inflater = getActivity().getMenuInflater();

inflater.inflate(R.menu.menu, menu);

}

public boolean onContextItemSelected

(MenuItem item) {

switch(item.getItemId())

{

case R.id.i1:

loadFragment(new Fragment3());

break;

case R.id.i2:

Toast.makeText(Fragment2.this.getActivity(), "the number is"+phonetv.getText().toString(),Toast.LENGTH\_LONG).show();

String ss=phonetv.getText().toString();

Intent i = new Intent(

Intent.ACTION\_DIAL,

Uri.parse("tel:" + ss));

startActivity(i);

break;

}

return super.onContextItemSelected(item);

}

public void loadFragment(Fragment fragment )

{

FragmentManager fm=getFragmentManager();

FragmentTransaction ft=fm.beginTransaction();

ft.replace(R.id.fragg,fragment);

ft.commit();

}

}

Fragment3 XML FILe:

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

<FrameLayout 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:id="@+id/fragment3"

android:orientation="vertical"

tools:context=".Fragment3">

<!-- TODO: Update blank fragment layout -->

<LinearLayout

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical">

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/edit"/>

<EditText

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/edit1"/>

<Button

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:id="@+id/buttonsend"/>

</LinearLayout>

</FrameLayout>

Fragment3 Java File:

package com.example.it.p2lab;

import android.app.PendingIntent;

import android.content.Context;

import android.content.Intent;

import android.content.IntentFilter;

import android.net.Uri;

import android.os.Bundle;

import android.support.v4.app.Fragment;

import android.telephony.SmsManager;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import android.widget.Button;

import android.widget.EditText;

import android.widget.TextView;

import android.widget.Toast;

public class Fragment3 extends Fragment {

EditText editText,editText2;

View view;

Button b1;

MyReceiver myReceiver ;

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

view=inflater.inflate(R.layout.fragment\_fragment3, container, false);

editText=view.findViewById(R.id.edit);

editText2=view.findViewById(R.id.edit1);

b1=view.findViewById(R.id.buttonsend);

b1.setOnClickListener(new View.OnClickListener() {

@Override

public void onClick(View view) {

String no = editText.getText().toString();

String msg = editText2.getText().toString();

//Getting intent and PendingIntent instance

Intent intent=new Intent

(getActivity().getApplicationContext(),

Fragment3.class);

PendingIntent pi=PendingIntent.getActivity

(getActivity().getApplicationContext(),

0, intent,0);

//Get the SmsManager instance and call the sendTextMessage method to send message

SmsManager sms = SmsManager.getDefault();

sms.sendTextMessage(no, null, msg, pi, null);

/\* if intent is commented, run the below

code to send sms where the 4th

parameter is null

\*/

// sms.sendTextMessage(no, null, msg, null, null);

Toast.makeText(getActivity().getApplicationContext(), "Message Sent successfully!",

Toast.LENGTH\_LONG).show();

broadcastIntent(msg);

}

});

// Inflate the layout for this fragment

return view;

}

public void changedata(String i) {

editText.setText(i);

Toast.makeText(getActivity(),"the string is "+i,Toast.LENGTH\_LONG).show();

}

public void onStart() {

super.onStart();

myReceiver = new MyReceiver();

IntentFilter intentFilter =

new IntentFilter("com.example.archana.a23\_custombroadcast.CUSTOM\_INTENT");

getActivity().registerReceiver(myReceiver,intentFilter);

}

public void broadcastIntent(String s){

// Intent intent = new Intent("CUSTOM\_INTENT");

Intent intent = new Intent();

intent.setAction("com.example.archana.a23\_custombroadcast.CUSTOM\_INTENT");

intent.putExtra("msg",s);

getActivity().sendBroadcast(intent);

}

public void onStop() {

super.onStop();

getActivity().unregisterReceiver(myReceiver);

}

}

COmmunicator ...i.e, the interface:

package com.example.it.p2lab;

public interface Communication {

public void respond(String i);

}

List Code….this is used as blueprint for displaying all the contacts:

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

<android.support.constraint.ConstraintLayout

xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent"

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

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textColor="#000"

android:id="@+id/list\_item"

android:textSize="15sp"/>

</android.support.constraint.ConstraintLayout>

Menu File:

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

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item android:id="@+id/i1"

android:title="SMS"/>

<item android:id="@+id/i2"

android:title="CALL"/>

</menu>

Finally ,Last but not the Least the BROADCAST REciever File:

package com.example.it.p2lab;

import android.content.BroadcastReceiver;

import android.content.Context;

import android.content.Intent;

import android.os.Bundle;

import android.widget.Toast;

public class MyReceiver extends BroadcastReceiver {

@Override

public void onReceive(Context context, Intent intent) {

Bundle bundle = intent.getExtras();

String msg = bundle.getString("msg");

Toast.makeText(context, "Intent Detected " +

"with message : "+msg,

Toast.LENGTH\_LONG).show();

}

}

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