**Assignment-2 USN:01fm16mca053**

**BroadCast Receiver:**

**Activity\_main.xml**

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

<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="com.example.broadcast.MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textStyle="bold"

android:layout\_marginTop="50dp"

android:layout\_centerHorizontal="true"

android:text="Check Mobile Data is Connected Or Not" />

</RelativeLayout>

**MainActivity.java**

package com.example.broadcast;

import android.app.AlertDialog;

import android.content.Context;

import android.content.DialogInterface;

import android.content.Intent;

import android.net.ConnectivityManager;

import android.net.NetworkInfo;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

String info,info1;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

WifiCheck();

}

public void WifiCheck(){

boolean a= isOnline();

System.out.println("is online--->" + a);

if (isOnline()==true) {

ConnectivityManager cm=(ConnectivityManager)getSystemService(CONNECTIVITY\_SERVICE);

final NetworkInfo mobileinfo=cm.getNetworkInfo(ConnectivityManager.TYPE\_MOBILE);

info= mobileinfo.getState().toString();

info1= mobileinfo.getReason().toString();

Toast.makeText(MainActivity.this, "Mobile Data Is On", Toast.LENGTH\_LONG).show();

AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);

builder.setCancelable(false);

builder.setTitle("Data Information");

builder.setMessage("Turn On Or Off Data And Click On Reload!!");

builder.setPositiveButton("Reload", new DialogInterface.OnClickListener() {

public void onClick(DialogInterface dialog, int which) {

startActivity(new Intent(getApplicationContext(), MainActivity.class));

/\* boolean isconnected=mobileinfo.getState()==NetworkInfo.State.CONNECTED;

Toast.makeText(MainActivity.this, "state:"+info+" reason:"+isconnected, Toast.LENGTH\_LONG).show();\*/

/\* Welcome.this.startActivity(new Intent(Settings.ACTION\_SETTINGS));

System.exit(0);\*/

}

});

/\* builder.setNegativeButton("cancel", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialog, int which) {

// Do nothing

dialog.dismiss();

// System.exit(0);

}

});\*/

AlertDialog alert = builder.create();

alert.show();

// new AsyncTaskRunner().execute("");

/\*try {

// Login();

LoginCall();

} catch (IOException e) {

e.printStackTrace();

}\*/

}else {

AlertDialog.Builder builder = new AlertDialog.Builder(MainActivity.this);

builder.setCancelable(false);

builder.setTitle("Information");

builder.setMessage("Internet Not Availaible,Please Turn On Data And Click On Reload");

builder.setPositiveButton("Reload", new DialogInterface.OnClickListener() {

public void onClick(DialogInterface dialog, int which) {

startActivity(new Intent(getApplicationContext(), MainActivity.class));

/\* Welcome.this.startActivity(new Intent(Settings.ACTION\_SETTINGS));

System.exit(0);\*/

}

});

/\* builder.setNegativeButton("cancel", new DialogInterface.OnClickListener() {

@Override

public void onClick(DialogInterface dialog, int which) {

// Do nothing

dialog.dismiss();

// System.exit(0);

}

});\*/

AlertDialog alert = builder.create();

alert.show();

}

}

public boolean isOnline() {

boolean bool=false;

ConnectivityManager conMgr = (ConnectivityManager) getApplicationContext().getSystemService(Context.CONNECTIVITY\_SERVICE);

NetworkInfo netInfo = conMgr.getActiveNetworkInfo();

if(netInfo == null || !netInfo.isConnected() || !netInfo.isAvailable()){

// Toast.makeText(getApplicationContext(), "No Internet connection!", Toast.LENGTH\_LONG).show();

bool= false;

}else{

bool=true;

}

return bool;

}

}

**2.Fragments:**

**Activity\_main.xml**

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

<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="com.example.fragments.MainActivity">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textAppearance="?android:attr/textAppearanceMedium"

android:text="Select Country :"

android:id="@+id/textView"

android:textStyle="bold"

android:layout\_alignParentTop="true"

android:layout\_centerHorizontal="true"

android:textSize="16dp" />

<Spinner

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:id="@+id/spinner"

android:background="@drawable/spinnerstyle"

android:layout\_below="@+id/textView"

android:layout\_alignLeft="@+id/spinner2"

android:layout\_alignStart="@+id/spinner2"

android:layout\_marginTop="10dp" />

<Spinner

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:id="@+id/spinner2"

android:background="@drawable/spinnerstyle"

android:layout\_below="@+id/textView2"

android:layout\_alignLeft="@+id/spinner3"

android:layout\_alignStart="@+id/spinner3"

android:layout\_marginTop="10dp" />

<Spinner

android:layout\_width="250dp"

android:layout\_height="wrap\_content"

android:id="@+id/spinner3"

android:background="@drawable/spinnerstyle"

android:layout\_below="@+id/textView3"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="10dp" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textAppearance="?android:attr/textAppearanceMedium"

android:text="Select State :"

android:clickable="true"

android:id="@+id/textView2"

android:textStyle="bold"

android:textSize="16dp"

android:layout\_below="@+id/spinner"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="10dp" />

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:textAppearance="?android:attr/textAppearanceMedium"

android:text="Select City:"

android:id="@+id/textView3"

android:textStyle="bold"

android:textSize="16dp"

android:layout\_below="@+id/spinner2"

android:layout\_centerHorizontal="true"

android:layout\_marginTop="10dp" />

<TextView

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:textAppearance="?android:attr/textAppearanceLarge"

android:id="@+id/textView4"

android:layout\_below="@+id/spinner3"

android:layout\_marginTop="30dp"

/>

</RelativeLayout>

**MainActivity.java**

package com.example.fragments;

import android.support.v7.app.AppCompatActivity;

import android.os.Bundle;

import android.view.View;

import android.widget.AdapterView;

import android.widget.ArrayAdapter;

import android.widget.Spinner;

import android.widget.TextView;

import android.widget.Toast;

import java.util.ArrayList;

import java.util.List;

public class MainActivity extends AppCompatActivity implements AdapterView.OnItemSelectedListener {

Spinner country,state,city;

TextView txt;

List clist=new ArrayList();

List slist=new ArrayList();

List ctlist=new ArrayList();

ArrayAdapter adaptersp\_country,adaptersp\_state,adaptersp\_city;

Object coun,stat,cit;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

country=(Spinner)findViewById(R.id.spinner);

state=(Spinner)findViewById(R.id.spinner2);

city=(Spinner)findViewById(R.id.spinner3);

txt=(TextView)findViewById(R.id.textView4);

//country

clist.clear();

clist.add("-- Select Country --");

txt.setText("");

country.setOnItemSelectedListener(this);

clist.add("India");

clist.add("China");

clist.add("Japan");

clist.add("USA");

adaptersp\_country = new ArrayAdapter<String>(MainActivity.this, R.layout.support\_simple\_spinner\_dropdown\_item, clist);

adaptersp\_country.setDropDownViewResource(R.layout.support\_simple\_spinner\_dropdown\_item);

country.setAdapter(adaptersp\_country);

//city

// slist.clear();

slist.add("-- Select State --");

state.setOnItemSelectedListener(this);

adaptersp\_state = new ArrayAdapter<String>(MainActivity.this, R.layout.support\_simple\_spinner\_dropdown\_item, slist);

adaptersp\_state.setDropDownViewResource(R.layout.support\_simple\_spinner\_dropdown\_item);

state.setAdapter(adaptersp\_state);

stat = state.getSelectedItem();

//state

// ctlist.clear();

ctlist.add("-- Select City --");

city.setOnItemSelectedListener(this);

adaptersp\_city = new ArrayAdapter<String>(MainActivity.this, R.layout.support\_simple\_spinner\_dropdown\_item, ctlist);

adaptersp\_city.setDropDownViewResource(R.layout.support\_simple\_spinner\_dropdown\_item);

city.setAdapter(adaptersp\_city);

}

@Override

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

coun=country.getSelectedItem();

if(coun==null || coun.equals("-- Select Country --")){

slist.clear();

slist.add("-- Select State --");

ctlist.clear();

ctlist.add("-- Select City --");

txt.setText("");

// Toast.makeText(MainActivity.this, "Please Select Country..", Toast.LENGTH\_SHORT).show();

return;

}else {

slist.clear();

slist.add("-- Select State --");

if (coun.equals("India")) {

slist.add("Karnataka");

slist.add("Maharashtra");

slist.add("Kerala");

slist.add("Rajastan");

} else if (coun.equals("China")) {

slist.add("Shandong");

slist.add("Fujian");

slist.add("Hunan");

slist.add("Yunnan");

} else if (coun.equals("Japan")) {

slist.add("Saitama");

slist.add("Sappora");

slist.add("Sendai");

slist.add("Shinjuku");

} else {

slist.add("California");

slist.add("Florida");

slist.add("Texas");

slist.add("Washington");

}

}

stat = state.getSelectedItem();

ctlist.clear();

ctlist.add("-- Select City --");

if(stat==null || stat.equals("-- Select State --")){

ctlist.clear();

ctlist.add("-- Select City --");

txt.setText("");

return;

}else{

if(stat.equals("Karnataka")){

ctlist.add("Haveri");

ctlist.add("Hubli");

ctlist.add("Dharwad");

}else if(stat.equals("Maharashtra")){

ctlist.add("Kolhapur");

ctlist.add("Mumbai");

ctlist.add("Kolhapur");

}else if(stat.equals("Kerala")){

ctlist.add("Kochi");

ctlist.add("Vishakapatanam");

}else if(stat.equals("Rajastan")){

ctlist.add("Nagpur");

ctlist.add("Ajmer");

}else if(stat.equals("Shandong")){

ctlist.add("Jinan");

ctlist.add("Yantai");

}else if(stat.equals("Fujian")){

ctlist.add("Fuzhou");

ctlist.add("putian");

}else if(stat.equals("Hunan")){

ctlist.add("Zhuzhou");

ctlist.add("Changde");

}else if(stat.equals("Yunnan")){

ctlist.add("Dali");

ctlist.add("Yuxi");

}else if(stat.equals("Saitama")){

ctlist.add("San jose");

ctlist.add("Oakland");

}else if(stat.equals("Sappora")){

ctlist.add("North Sappora");

ctlist.add("South Sappora");

}else if(stat.equals("Sendai")){

ctlist.add("South Sendai");

ctlist.add("North sendai");

}else if(stat.equals("Shinjuku")){

ctlist.add("Yotsuya");

ctlist.add("Ichigaya");

}else if(stat.equals("California")){

ctlist.add("Chichibu");

ctlist.add("Soka");

}else if(stat.equals("Florida")){

ctlist.add("Miami");

ctlist.add("Orlando");

}else if(stat.equals("Texas")){

ctlist.add("Dallas");

ctlist.add("Austin");

}else if(stat.equals("Washington")){

ctlist.add("Seattle");

ctlist.add("Tacoma");

}

}

cit = city.getSelectedItem();

if(coun==null && stat==null && cit==null){

txt.setVisibility(View.INVISIBLE);

}else{

txt.setText("You Are Selected : Country="+coun+" State="+stat+" City="+cit);

}

}

@Override

public void onNothingSelected(AdapterView<?> parent) {

}

}

**3.WhatsApp**

**ActivityMain.xml**

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

<item

android:title="New group"

android:id="@+id/group"

/>

<item

android:title="New Broadcast"

android:id="@+id/broadcast"

/>

<item

android:title="Whatsapp Web"

android:id="@+id/web"

/>

<item

android:title="starred Messages"

android:id="@+id/messages"

/>

<item

android:title="Settings"

android:id="@+id/Settings"

/>

<item

android:id="@+id/action\_search"

android:icon="@drawable/ic\_action\_search"

android:orderInCategory="120"

android:showAsAction="always"

/>

</menu>

**MainActivity.java**

package com.example.whatsapp;

import android.os.Bundle;

import android.app.Activity;

import android.view.Menu;

import android.view.MenuItem;

import android.widget.TabHost;

import android.widget.Toast;

import android.widget.TabHost.TabSpec;

public class MainActivity extends Activity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

TabHost th = (TabHost) findViewById(R.id.tabhost);

th.setup();

TabSpec specs =th.newTabSpec("tag1");

specs.setContent(R.id.tab1);

specs.setIndicator("MESSAGES");

th.addTab(specs);

specs =th.newTabSpec("tag2");

specs.setContent(R.id.tab2);

specs.setIndicator("STATUS");

th.addTab(specs);

specs =th.newTabSpec("tag3");

specs.setContent(R.id.tab3);

specs.setIndicator("CALLS");

th.addTab(specs);

}

@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;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

// TODO Auto-generated method stub

switch(item.getItemId()) {

case R.id.group:

Toast.makeText(this, "New group",Toast.LENGTH\_LONG).show();

break;

case R.id.broadcast:

Toast.makeText(this, "New Broadcast",Toast.LENGTH\_LONG).show();

break;

case R.id.web:

Toast.makeText(this, "Whatsapp Web",Toast.LENGTH\_LONG).show();

break;

case R.id.messages:

Toast.makeText(this, "Starred Messages",Toast.LENGTH\_LONG).show();

break;

case R.id.Settings:

Toast.makeText(this, "Settings",Toast.LENGTH\_LONG).show();

break;

}

return false;

}

}

**MainActivity.xml**

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

android:layout\_width="fill\_parent"

android:layout\_height="fill\_parent"

android:orientation="vertical" >

<TabHost

android:id="@+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"

>

</LinearLayout>

<LinearLayout

android:id="@+id/tab2"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

>

</LinearLayout>

<LinearLayout

android:id="@+id/tab3"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:orientation="vertical"

>

</LinearLayout>

</FrameLayout>

</LinearLayout>

</TabHost>

</LinearLayout>