

```
1 package com.example.amitkrishna.robo_car;
2
3 import android.app.Activity;
4 import android.content.Context;
5 import android.content.Intent;
6 import android.util.Log;
7 import android.widget.Toast;
8
9 import java.io.BufferedReader;
10 import java.io.IOException;
11 import java.io.InputStream;
12 import java.io.InputStreamReader;
13 import java.net.HttpURLConnection;
14 import java.net.MalformedURLException;
15 import java.net.URL;
16
17 /**
18  * Created by Amit Krishna on 31-05-2017.
19  */
20
21 public final class Utils {
22     public static final String[] TAG=new String[4];
23     public static final String URL="http://192.168.225.235
24 ";
25     public static String request(String reqadd, String cmd
26 , Context context){
27         try {
28             URL url=new URL(reqadd+"/"+cmd);
29             HttpURLConnection urlConnection=(
30 HttpURLConnection) url.openConnection();
31             urlConnection.setReadTimeout(15000);
32             urlConnection.setConnectTimeout(10000);
33             urlConnection.setRequestMethod("GET");
34             urlConnection.connect();
35             if (urlConnection.getResponseCode()==200){
36                 BufferedReader inputStreamReader= new
37                 BufferedReader(new InputStreamReader(urlConnection.
38 getInputStream()));
39                 String val = inputStreamReader.readLine();
40                 Log.i(TAG[2], "request:val="+val);
41                 return val;
42             }
43         }
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41         else if(urlConnection.getResponseCode()==404) {
42
43             return "error1";
44
45         }
46         Log.i(TAG[2], "request:responsecode="+String.
valueOf(urlConnection.getResponseCode()));
47
48
49     }
50     catch (MalformedURLException e){
51         Log.e(TAG[2], "request: bad url",e );
52         return null;
53
54     }
55     catch (IOException e){
56         if(e.toString().contains("No route to host")){
return "error1";}
57         Log.e(TAG[2],"request: can`t connect",e);
58
59
60         return "error2";
61
62
63     }
64     return null;
65 }
66
67
68
69
70 }
71
```

```

1  package com.example.amitkrishna.robo_car;
2
3  import android.support.v4.view.MotionEventCompat;
4  import android.util.Log;
5  import android.view.MotionEvent;
6  import android.view.View;
7
8  import static com.example.amitkrishna.robo_car.Utills.TAG;
9  import static com.example.amitkrishna.robo_car.
    MainActivity.Backgroundrequesttask;
10
11 /**
12  * Created by Amit Krishna on 30-05-2017.
13  */
14
15 class mylistener implements View.OnTouchListener {
16     private View toggleview;
17     private float val1=0;
18     private float val2=0;
19
20
21     mylistener(View toggleview){
22         super();
23         this.toggleview=toggleview;
24     }
25     @Override
26     public boolean onTouch(View v, MotionEvent event) {
27         int eventval= MotionEventCompat.getActionMasked(
event);
28         if(eventval==MotionEvent.ACTION_DOWN ){
29             if(toggleview==null){
30                 Log.i(TAG[0], "onTouch: btn pressed");
31
32                 String cmd;
33                 switch (v.getId()){
34                     case R.id.primeLeftArrow:
35                         cmd="move_left";
36                         break;
37                     case R.id.primearrowright:
38                         cmd="move_right";
39                         break;
40                     case R.id.primearrowup:
41                         cmd="move_forward";
42                         break;
43                     case R.id.primeDownArrow:

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44         cmd="move_backward";
45         break;
46         default:
47             cmd="none";
48     }
49     if (cmd!="none") {
50         new Backgroundrequesttask(v.getContext()).
execute(Utils.URL,cmd); }
51
52     }
53     else {val1=event.getX();}
54     return true;
55 }
56 else if (eventval==MotionEvent.ACTION_UP){
57     if(toggleview==null){
58         Log.i(TAG[0], "onTouch: btn released");
59         new Backgroundrequesttask(v.getContext()).
execute(Utils.URL,"stop");
60     }
61     else {val2=event.getX();}
62
63 }
64
65 if(val1-300>val2 && val2>0 && v.getId()==R.id.
viewgroup1){
66     int id1=v.getId();
67     int id2=toggleview.getId();
68     Log.i(TAG[0], "onTouch:all="+ String.valueOf(
val1)+"val2="+String.valueOf(val2));
69     Log.i(TAG[0], "id1="+String.valueOf(id1)+"id2="
+String.valueOf(id2));
70
71     v.setVisibility(View.GONE);
72     toggleview.setVisibility(View.VISIBLE);
73
74 }
75 else if (val1+300<val2 && val2>0 && v.getId()==R.id
.viewgroup2){
76     int id1=v.getId();
77     int id2=toggleview.getId();
78     Log.i(TAG[0], "onTouch:all="+ String.valueOf(
val1)+"val2="+String.valueOf(val2));
79     Log.i(TAG[0], "id1="+String.valueOf(id1)+"id2="
+String.valueOf(id2));
80     v.setVisibility(View.GONE);

```

```
81         toggleview.setVisibility(View.VISIBLE);
82
83     }
84
85     return true;
86 }
87 }
88
```

```
1 package com.example.amitkrishna.robo_car;
2
3 import android.app.Activity;
4 import android.content.Context;
5 import android.content.Intent;
6 import android.os.AsyncTask;
7 import android.support.v7.app.AppCompatActivity;
8 import android.os.Bundle;
9 import android.util.Log;
10 import android.view.View;
11 import android.widget.ImageView;
12 import android.widget.SeekBar;
13 import android.widget.Toast;
14
15 import static com.example.amitkrishna.robo_car.Utills.TAG;
16 import static com.example.amitkrishna.robo_car.Utills.URL;
17
18
19 public class MainActivity extends AppCompatActivity {
20     private static View main;
21
22
23
24     @Override
25     protected void onCreate(Bundle savedInstanceState) {
26         super.onCreate(savedInstanceState);
27         setContentView(R.layout.activity_main);
28
29         main=findViewById(R.id.main);
30
31
32
33         View view=findViewById(R.id.viewgroup2);
34         View view1=findViewById(R.id.viewgroup1);
35
36         ImageView btnup=(ImageView) findViewById(R.id.
primearrowup);
37         ImageView btndown=(ImageView) findViewById(R.id.
primeDownArrow);
38         ImageView btnleft=(ImageView) findViewById(R.id.
primeLeftArrow);
39         ImageView btnright=(ImageView) findViewById(R.id.
primearrowright);
40
41         view.setOnTouchListener(new mylistener(view1));
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42         view1.setOnClickListener(new mylistener(view));
43
44         btnup.setOnClickListener(new mylistener(null));
45         btndown.setOnClickListener(new mylistener(null));
46         btnleft.setOnClickListener(new mylistener(null));
47         btnright.setOnClickListener(new mylistener(null));
48
49
50     }
51     public void onClick(View view){
52         String cmd;
53         switch (view.getId()){
54             case R.id.left:
55                 cmd="tweezers_loosen";
56                 break;
57             case R.id.right:
58                 cmd="tweezers_tighten";
59                 break;
60             case R.id.up:
61                 cmd="arm_up";
62                 break;
63             case R.id.down:
64                 cmd="arm_down";
65                 break;
66             default:
67                 cmd="none";
68         }
69         if(cmd!="none") {
70             Backgroundrequesttask backgroundrequesttask=new
Backgroundrequesttask(this);
71             backgroundrequesttask.execute(URL,cmd); }
72
73
74     }
75
76     public static class Backgroundrequesttask extends
AsyncTask<String,Void,String>{
77         private Context context;
78
79         public Backgroundrequesttask(Context context){
80             super();
81             this.context=context;
82         }
83
84         @Override

```

```
85         protected void onPostExecute(String s) {
86
87             if (s=="error1") {
88                 Toast.makeText(context,"Robo_car is not
connected!",Toast.LENGTH_LONG).show();
89
90             }
91             else if (s=="error2") {
92                 Intent intent=new Intent(context,
launcheractivity.class);
93                 intent=intent.addFlags(Intent.
FLAG_ACTIVITY_SINGLE_TOP);
94                 context.startActivity(intent);
95
96
97             }
98         }
99
100         @Override
101         protected String doInBackground(String... params)
102         {
103             return Utils.request(params[0],params[1],
context);
104         }
105
106     }
107
```



```
1 package com.example.amitkrishna.robo_car;
2
3 import android.annotation.SuppressLint;
4 import android.content.Context;
5 import android.content.Intent;
6 import android.net.ConnectivityManager;
7 import android.net.Network;
8 import android.net.NetworkInfo;
9 import android.os.AsyncTask;
10 import android.support.v4.content.ContextCompat;
11 import android.support.v7.app.ActionBar;
12 import android.support.v7.app.AppCompatActivity;
13 import android.os.Bundle;
14 import android.os.Handler;
15 import android.util.Log;
16 import static com.example.amitkrishna.robo_car.Utills.TAG;
17 import android.view.MotionEvent;
18 import android.view.View;
19 import android.widget.Button;
20 import android.widget.TextView;
21
22 /**
23  * An example full-screen activity that shows and hides
24  * the system UI (i.e.
25  * status bar and navigation/system bar) with user
26  * interaction.
27  */
28
29 public class launcheractivity extends AppCompatActivity {
30     private Button view1;
31
32     @Override
33     protected void onCreate(Bundle savedInstanceState) {
34         super.onCreate(savedInstanceState);
35         setContentView(R.layout.activity_launcheractivity);
36
37         TAG[0]="MyListener";
38         TAG[1]="MainActivity";
39         TAG[2]="Utills";
40         TAG[3]="LauncherActivity";
41         view1=(Button) findViewById(R.id.btn);
42
43         new launchertask().execute();
44
45     }
46
47     public void onClick(View view){
```

```

43         String btnText =(String) view1.getText();
44         if (btnText=="Continue"){
45             Intent intent=new Intent(this,MainActivity.
class);
46             intent=intent.addFlags(Intent.
FLAG_ACTIVITY_NO_HISTORY);
47             startActivity(intent);
48             finish();
49         }
50         else {new launchertask().execute();}
51     }
52     private class launchertask extends AsyncTask<Void,Void
,Void>{
53         private View view=findViewById(R.id.progressbar);
54         private TextView status=((TextView)findViewById(R
.id.status));
55
56         @Override
57         protected void onPreExecute() {
58             status.setText("Setting things up....");
59             status.setTextColor(ContextCompat.getColor(
launcheractivity.this,android.R.color.white));
60             view.setVisibility(View.VISIBLE);
61             view1.setVisibility(View.GONE);
62         }
63
64         @Override
65         protected Void doInBackground(Void... params) {
66             try{Thread.sleep(3000); }
67             catch (InterruptedException e){
68                 Log.e(TAG[3], "onCreate:",e);}
69             return null;
70         }
71
72         @Override
73         protected void onPostExecute(Void aVoid) {
74
75
76
77             ConnectivityManager connectivity = (
ConnectivityManager) getSystemService(Context.
CONNECTIVITY_SERVICE);
78             NetworkInfo networkinfo= connectivity.
getActiveNetworkInfo();
79

```

```
80         if(networkinfo!=null && networkinfo.  
    isConnected() && ("\"JioFi3_2875D4\"").equals(networkinfo.  
    getExtraInfo())){(status).setText("Done");  
81         view1.setText("Continue");  
82         view.setVisibility(View.INVISIBLE);  
83         view1.setVisibility(View.VISIBLE);}  
84  
85         else if (networkinfo==null || networkinfo.  
    isConnected() || networkinfo.getExtraInfo()!="\"  
    JioFi3_2875D4\""){  
86  
87  
88             status.setText("You are not connected  
                to the local host JioFi3_2875D4\n"+ "to which Robo_Car  
                is connected to \n"+"please connect to JioFi3_2875D4 to  
                continue");  
89             status.setTextColor(ContextCompat.  
    getColor(launcheractivity.this,android.R.color.  
    holo_red_light));  
90             view.setVisibility(View.INVISIBLE);  
91             view1.setText("Retry");  
92             view1.setVisibility(View.VISIBLE);  
93  
94             }  
95  
96  
97         }  
98     }  
99  
100  
101 }
```