

```
1 package com.example.bettinabenitez.bobapp;
2
3 import android.util.Log;
4 /**
5  * Created by bettinabenitez on 19/02/2018.
6  */
7
8 public class User {
9
10    private static String emailAddress;
11    private String bandPerformer;
12    private String vocalPerformer;
13
14
15    public static String getEmailAddress() {
16        return emailAddress;
17    }
18
19    public String getBandPerformer() {
20        return bandPerformer;
21    }
22
23    public String getVocalPerformer() { return
24        vocalPerformer; }
25
26    public void setEmailAddress(String emailAddress) {
27        this.emailAddress = emailAddress;
28    }
29
30    public void setBandPerformer(String bandPerformer) {
31        this.bandPerformer = bandPerformer;
32    }
33
34    public void setVocalPerformer(String vocalPerformer) {
35        this.vocalPerformer = vocalPerformer;
36    }
37 }
38 }
```

```
1 package com.example.bettinabenitez.bobapp;
2
3 /**
4  * Created by bettinabenitez on 29/01/2018.
5  */
6
7 import java.io.FileWriter;
8
9 import org.json.simple.JSONArray;
10 import org.json.simple.JSONObject;
11
12
13 public class trial {
14     public static void main(String[] args) {
15
16         JSONObject jsonObject = new JSONObject();
17
18         //JSON object and values
19         jsonObject.put("name", "Atul Rai");
20         jsonObject.put("occupation", "Blogger");
21         jsonObject.put("location", "India");
22         jsonObject.put("website", "www.websparrow.org");
23
24         //JSON array and values
25         JSONArray jsonArray = new JSONArray();
26         jsonArray.add("Java");
27         jsonArray.add("Struts");
28         jsonArray.add("jQuery");
29         jsonArray.add("JavaScript");
30         jsonArray.add("Database");
31
32         jsonObject.put("technology", jsonArray);
33
34         // writing the JSONObject into a file(info.json)
35         try {
36             FileWriter fileWriter = new FileWriter("info.
37             json");
38             fileWriter.write(jsonObject.toJSONString());
39             fileWriter.flush();
40         } catch (Exception e) {
41             e.printStackTrace();
42         }
43         System.out.println(jsonObject);
44     }
45 }
46
```

```
1 package com.example.bettinabenitez.bobapp;
2
3
4 import android.os.Bundle;
5 import android.support.v4.app.Fragment;
6 import android.util.Log;
7 import android.view.LayoutInflater;
8 import android.view.View;
9 import android.view.ViewGroup;
10 import android.widget.Button;
11 import android.widget.TextView;
12
13 import org.json.JSONArray;
14 import org.json.JSONException;
15 import org.json.JSONObject;
16
17 import java.io.BufferedReader;
18 import java.io.InputStream;
19 import java.io.InputStreamReader;
20 import java.net.HttpURLConnection;
21 import java.net.URL;
22
23
24 /**
25  * A simple {@link Fragment} subclass.
26  */
27 public class Raffle extends Fragment implements View.OnClickListener {
28
29     Button grandButton, regularButton;
30     int access = 1;
31     int gclick = 0;
32     int rclick = 0;
33     public String url;
34     TextView grandWinner, regularWinner;
35
36     public Raffle() {
37         // Required empty public constructor
38     }
39
40
41     @Override
42     public View onCreateView(LayoutInflater inflater,
43                             ViewGroup container,
44                             Bundle savedInstanceState) {
45         // Inflate the layout for this fragment
46         View v = inflater.inflate(R.layout.fragment_raffle,
47             container, false);
48
49         grandButton = v.findViewById(R.id.grandButton);
```

```
48         grandWinner = v.findViewById(R.id.grandWinner);
49         regularButton = v.findViewById(R.id.regularButton);
50         regularWinner = v.findViewById(R.id.regularWinner);
51         grandButton.setOnClickListener(this);
52         regularButton.setOnClickListener(this);
53
54     return v;
55 }
56
57 @Override
58 public void onClick(View v) {
59     switch (v.getId()) {
60         case R.id.grandButton:
61             if (access == 1) {
62                 Thread thread = new Thread(new Runnable
63 () {
64             @Override
65             public void run() {
66                 try {
67                     // connects to the url
68                     URL url = new URL("http://
69                     10.0.2.2:8080/raffle");
70                     HttpURLConnection conn =
71                         (HttpURLConnection) url.openConnection();
72                     // conn.setRequestMethod("GET");
73                     conn.setRequestProperty("
74 Content-Type", "application/json; charset=UTF-8");
75                     conn.setRequestProperty("
76 Accept", "application/json");
77                     conn.setDoOutput(true);
78                     conn.setDoInput(true);
79
80
81                     //Deserialisation
82                     InputStream inputStream =
83                         conn.getInputStream();
84                     BufferedReader bufferedReader =
85                         new BufferedReader(new InputStreamReader(
86                         inputStream));
87
88                     StringBuilder sb = new
89                     String line =
90                     JSONArray jsonArray = new
91                     JSONObject jsonObject = new
```

```
85
86
87         try {
88             jsonObject.put(""
89             RaffleWinner", jsonArray);
90         }
91         catch (JSONException e) {
92             e.printStackTrace();
93         }
94
95         JSONArray performerArray =
96         jsonObject.getJSONArray("RaffleWinner");
97         String gWinner =
98         performerArray.getString(0);
99         String regwinner =
100
101
102         grandWinner.setText(
103         gWinner);
104         regularWinner.setText(
105         regwinner);
106
107
108         if (line != null) {
109             sb.append(line+"\n");
110             Log.e("ERR", line);
111         }
112         bufferedReader.close();
113
114         Log.i("STATUS", String.
115         valueOf(conn.getResponseCode()));
116         Log.i("MSG", conn.
117         getResponseMessage());
118
119         conn.disconnect();
120     } catch (Exception e) {
121         e.printStackTrace();
122     }
123 }
124 }
```

```
1 package com.example.bettinabenitez.bobapp;
2
3
4 import android.os.Bundle;
5 import android.support.v4.app.Fragment;
6 import android.util.Log;
7 import android.view.LayoutInflater;
8 import android.view.View;
9 import android.view.ViewGroup;
10 import android.widget.AdapterView;
11 import android.widget.ArrayAdapter;
12 import android.widget.Button;
13 import android.widget.Spinner;
14 import android.content.Context;
15 import android.widget.TextView;
16
17 import org.json.JSONObject;
18
19 import java.io.BufferedReader;
20 import java.io.DataOutputStream;
21 import java.io.InputStream;
22 import java.io.InputStreamReader;
23 import java.net.HttpURLConnection;
24 import java.net.URL;
25
26 /**
27 * A simple {@link Fragment} subclass.
28 */
29 public class Voting extends Fragment implements View.OnClickListener, AdapterView.OnItemSelectedListener{
30
31     Button vote;
32     TextView message;
33     String GmailAddress, BandVote, VocalVote;
34     int count = 0;
35     User user = new User();
36
37     public Voting() {
38         // Required empty public constructor
39     }
40
41
42     @Override
43     public View onCreateView(LayoutInflater inflater,
44                             ViewGroup container,
45                             Bundle savedInstanceState) {
46         // Inflate the layout for this fragment
47         View v = inflater.inflate(R.layout.fragment_voting,
48                                 container, false);
49
50         vote = (Button) v.findViewById(R.id.button);
51         message = (TextView) v.findViewById(R.id.message);
52
53         vote.setOnClickListener(this);
54         return v;
55     }
56
57     @Override
58     public void onClick(View v) {
59         if (v.getId() == R.id.button) {
60             if (count % 2 == 0) {
61                 message.setText("Vocal Vote");
62                 count++;
63             } else {
64                 message.setText("Band Vote");
65                 count++;
66             }
67         }
68     }
69
70     @Override
71     public void onItemSelected(AdapterView parent, View view, int position, long id) {
72         if (parent.getId() == R.id.spinner) {
73             if (position == 0) {
74                 message.setText("Gmail Address");
75             } else if (position == 1) {
76                 message.setText("Band Vote");
77             } else if (position == 2) {
78                 message.setText("Vocal Vote");
79             }
80         }
81     }
82
83     @Override
84     public void onNothingSelected(AdapterView parent) {
85     }
86
87 }
```

```
48         vote = (Button) v.findViewById(R.id.button3);
49         message = v.findViewById(R.id.errormessage);
50
51         Spinner spinner = (Spinner) v.findViewById(R.id.
52             spinnerBand);
53         spinner.setOnItemSelectedListener(this);
54         ArrayAdapter<CharSequence> adapter;
55         //R.layout.spinner_bands is the layout I created
56         //see PATH: res > layout > spinner_vocals
57         adapter = ArrayAdapter.createFromResource(
58             getActivity().getApplicationContext(), R.array.Bands, R.
59             layout.spinner_bands);
60         // Specify the layout to use when the list of
61         // choices appears
62         adapter.setDropDownViewResource(android.R.layout.
63             simple_spinner_dropdown_item);
64         // Apply the adapter to the spinner
65         spinner.setAdapter(adapter);
66
67         Spinner spinner2 = (Spinner) v.findViewById(R.id.
68             spinnerVocal);
69         spinner2.setOnItemSelectedListener(this);
70         ArrayAdapter<CharSequence> adapter2 = ArrayAdapter.
71             createFromResource(getActivity().getApplicationContext(), R
72             .array.Vocals, R.layout.spinner_vocals);
73         adapter2.setDropDownViewResource(android.R.layout.
74             simple_spinner_dropdown_item);
75         spinner2.setAdapter(adapter2);
76
77         vote.setOnClickListener(this);
78
79         return v;
80     }
81
82     @Override
83     public void onClick(View v) {
84         if (v.getId() == R.id.button3) {
85             setVote();
86
87             if (count == 0) {
88                 message.setText("You've placed your vote");
89                 count = 1;
90             }
91             else if (count == 1) {
92                 message.setText("You've already placed your
93                 vote");
94             }
95         }
96     }
97 }
```



```
127 , "application/json; charset=UTF-8");  
128         conn.setRequestProperty("Accept", "  
129             application/json");  
130             conn.setDoOutput(true);  
131             conn.setDoInput(true);  
132             //Converting Strings into JSON format  
133             and adding them to the jsonParam Object  
134             JSONObject jsonParam = new JSONObject(  
135 );  
136             jsonParam.put("GmailAddress",  
137                 GmailAddress);  
138             jsonParam.put("BandVote", BandVote);  
139             jsonParam.put("VocalVote", VocalVote);  
140             //Sending JSON Objects to HTTP  
141             SERIALISATION  
142             DataOutputStream outputStream = new  
143             DataOutputStream(conn.getOutputStream());  
144             outputStream.writeBytes(jsonParam.  
145             toString());  
146             outputStream.flush();  
147             outputStream.close();  
148             Log.i("STATUS", String.valueOf(conn.  
149            getResponseCode()));  
150             Log.i("MSG", conn.getResponseMessage())  
151         );  
152     }  
153 );  
154     thread.start();  
155 }  
156 }  
157 }  
158 }
```

```
1 package com.example.bettinabenitez.bobapp;
2
3
4 import android.os.Bundle;
5 import android.support.constraint.ConstraintLayout;
6 import android.support.v4.app.Fragment;
7 import android.util.Log;
8 import android.view.LayoutInflater;
9 import android.view.View;
10 import android.view.ViewGroup;
11 import android.widget.Button;
12 import android.widget.RelativeLayout;
13 import android.widget.TextView;
14
15 import org.json.JSONArray;
16 import org.json.JSONException;
17 import org.json.JSONObject;
18
19 import java.io.BufferedReader;
20 import java.io.InputStream;
21 import java.io.InputStreamReader;
22 import java.net.HttpURLConnection;
23 import java.net.URL;
24
25
26 /**
27 * A simple {@link Fragment} subclass.
28 */
29 public class Schedule extends Fragment implements View.OnClickListener {
30     Button update;
31     int access = 1;
32     public String url;
33     TextView performerNext, performerNow;
34     int click = 0;
35
36     public Schedule() {
37         // Required empty public constructor
38     }
39
40
41
42
43     @Override
44     public View onCreateView(LayoutInflater inflater,
45                             ViewGroup container,
46                             Bundle savedInstanceState) {
47         // Inflate the layout for this fragment
48         View v = inflater.inflate(R.layout.
49         fragment_schedule, container, false);
```

```

48
49         update = (Button) v.findViewById(R.id.update);
50         performerNow = (TextView) v.findViewById(R.id.
51             PerformerNow);
51         performerNext = (TextView) v.findViewById(R.id.
52             PerformerNext);
52         update.setOnClickListener(this);
53
54     return v;
55
56 }
57
58 @Override
59 public void onClick(View v) { //when button is clicked
60     switch (v.getId()) {
61         case R.id.update:
62             if (access == 1) {
63                 Thread thread = new Thread(new Runnable
64 () {
65                 @Override
66                 public void run() {
67                     try {
68                         // connects to the url
69                         URL url = new URL("http://
70                         10.0.2.2:8080/schedule");
71                         HttpURLConnection conn =
72                             (HttpURLConnection) url.openConnection();
73                         conn.setRequestMethod("GET");
74                         conn.setRequestProperty("
75                         Content-Type", "application/json; charset=UTF-8");
76                         conn.setRequestProperty("
77                         Accept", "application/json");
78                         conn.setDoOutput(true);
79                         conn.setDoInput(true);
80
81                         //Deserialisation
82                         InputStream inputStream =
83                             conn.getInputStream();
84                         BufferedReader
85                         bufferedReader = new BufferedReader(new
86                         InputStreamReader(inputStream));
87
88                         StringBuilder sb = new
89                         String line =
90                         JSONArray jsonArray = new

```

```
84 JSONArray(line);
85
86
87
88     new JSONObject());
89
90
91
92
93
94
95     jsonObject.getJSONArray("Performer_Name");
96
97     performerArray.getString(0);
98
99     performerArray.getString(1);
100
101
102     .getString("Performer_Name");
103
104
105
106
107
108
109
110
111
112     valueOf(conn.getResponseCode()));
113
114
115
116
117
118
119
120
121
122
```

```
123          break;
124      }
125
126  }
127
128 }
129
```

```
1 package com.example.bettinabenitez.bobapp;
2
3
4 import android.os.Bundle;
5 import android.support.v4.app.Fragment;
6 import android.view.LayoutInflater;
7 import android.view.View;
8 import android.view.ViewGroup;
9
10
11 /**
12  * A simple {@link Fragment} subclass.
13  */
14 public class LiveStream extends Fragment {
15
16
17     public LiveStream() {
18         // Required empty public constructor
19     }
20
21
22     @Override
23     public View onCreateView(LayoutInflater inflater,
24                             ViewGroup container,
25                             Bundle savedInstanceState) {
26         // Inflate the layout for this fragment
27         return inflater.inflate(R.layout.
28             fragment_live_stream, container, false);
29     }
30 }
```

```
1 package com.example.bettinabenitez.bobapp;
2
3 import android.support.v4.app.FragmentTransaction;
4 import android.support.design.widget.NavigationView;
5 import android.support.design.widget.BottomNavigationView;
6 import android.view.MenuItem;
7 import android.support.annotation.NonNull;
8
9
10 import android.support.v7.app.AppCompatActivity;
11 import android.os.Bundle;
12 import android.widget.TextView;
13 import android.widget.Button;
14
15
16 public class MainActivity extends AppCompatActivity
17     implements NavigationView.OnNavigationItemSelectedListener
18 {
19
20     Button update;
21     int access = 1;
22     public String url;
23     TextView performerNext, performerNow;
24
25     @Override
26     public boolean onNavigationItemSelected(@NonNull
27     MenuItem item) {
28         switch (item.getItemId()) {
29             case R.id.schedule:
30                 Schedule fragment = new Schedule();
31                 FragmentTransaction fragmentTransaction
32                 = getSupportFragmentManager().beginTransaction();
33                 fragmentTransaction.replace(R.id.home,
34                 fragment, "FragmentName");
35                 fragmentTransaction.commit();
36                 return true;
37             case R.id.raffle:
38                 Raffle fragment2 = new Raffle();
39                 FragmentTransaction
40                 fragmentTransaction2 = getSupportFragmentManager()
41                 .beginTransaction();
42                 fragmentTransaction2.replace(R.id.home,
43                 fragment2, "FragmentName");
44                 fragmentTransaction2.commit();
45                 return true;
46         }
47     }
48 }
```

```
40         case R.id.voting:
41             Voting fragment3 = new Voting();
42             FragmentTransaction
43             fragmentTransaction3 = getSupportFragmentManager().beginTransaction();
44             fragmentTransaction3.replace(R.id.home,
45             fragment3, "FragmentName");
46             fragmentTransaction3.commit();
47             return true;
48         case R.id.live_stream:
49             LiveStream fragment4 = new LiveStream()
50             ;
51             FragmentTransaction
52             fragmentTransaction4 = getSupportFragmentManager().beginTransaction();
53             fragmentTransaction4.replace(R.id.home,
54             fragment4, "FragmentName");
55             fragmentTransaction4.commit();
56             return true;
57         }
58     }
59
60     Button click;
61     public static TextView data;
62
63     @Override
64     protected void onCreate(Bundle savedInstanceState) {
65         super.onCreate(savedInstanceState);
66         setContentView(R.layout.activity_main);
67
68         BottomNavigationView navigation =
69         BottomNavigationView) findViewById(R.id.bottom_nv);
70         navigation.setOnNavigationItemSelectedListener(
71         mOnNavigationItemSelectedListener);
72         Schedule fragment = new Schedule();
73         android.support.v4.app.FragmentTransaction
74         fragmentTransaction = getSupportFragmentManager().beginTransaction();
75         fragmentTransaction.replace(R.id.home, fragment, "FragmentName");
76         fragmentTransaction.commit();
77     }
```

```
78     @Override
79     public boolean onNavigationItemSelected(@NonNull
80         MenuItem item) {
81         return false;
82     }
83
84 }
85
```

```
1 package com.example.bettinabenitez.bobapp;
2
3 import android.os.Bundle;
4 import android.support.v7.app.AppCompatActivity;
5 import android.util.Log;
6 import android.view.View;
7 import android.widget.Button;
8 import android.widget.EditText;
9 import android.widget.TextView;
10 import android.content.Intent;
11
12 import org.json.JSONObject;
13
14 import java.io.BufferedReader;
15 import java.io.DataOutputStream;
16 import java.io.InputStream;
17 import java.io.InputStreamReader;
18 import java.net.URL;
19 import java.net.HttpURLConnection;
20
21 public class LoginActivity extends AppCompatActivity {
22
23     Button loginbtn;
24     public static TextView signup;
25     EditText email, password;
26
27     String GmailAddress, Password;
28     User user = new User();
29     int access = 0;
30
31     private static String url = "http://10.0.2.2:8080/login";
32
33     @Override
34     protected void onCreate(Bundle savedInstanceState) {
35         super.onCreate(savedInstanceState);
36         setContentView(R.layout.activity_login);
37
38         signup = (TextView) findViewById(R.id.signup);
39         loginbtn = (Button) findViewById(R.id.login);
40         email = (EditText) findViewById(R.id.email);
41         password = (EditText) findViewById(R.id.password);
42
43         signup.setOnClickListener(new View.OnClickListener()
44         ) {
45             @Override
46             public void onClick(View view) {
47                 Intent intent = new Intent(LoginActivity.
this, SignUpActivity.class);
```

File - /Users/bettinabenitez/Downloads/Forms 2/Product/BobApp/app/src/main/java/com/example/bettinabenitez/bobapp/LoginActivity.j

```
48                         startActivity(intent);
49
50             }
51         });
52
53         loginbtn.setOnClickListener(new View.
54             OnClickListener() {
55                 @Override
56                 public void onClick(View view) { //when button
57                     is clicked
58                     user.setEmailAddress(email.getText().
59                     toString());
60                     getPost(); //send and get json data
61                     if (access == 1) {
62                         Intent intent = new Intent(
63                             LoginActivity.this, MainActivity.class);
64                         startActivity(intent);
65                     }
66
67                 }
68             });
69
70             public void getPost() {
71
72                 Thread thread = new Thread(new Runnable() {
73                     @Override
74                     public void run() {
75                         try {
76                             GmailAddress = email.getText().toString();
77                             Password = password.getText().toString();
78
79                             //CONNECTING TO URL --> send/retrieve
80                             //JSON data
81                             URL url = new URL("http://10.0.2.2:8080
82                             /login"); //10.0.2.2 => localhost
83                             HttpURLConnection conn = (
84                             HttpURLConnection) url.openConnection();
85                             //POST request method, from python code
86                             conn.setRequestMethod("POST");
87                             conn.setRequestProperty("Content-Type",
88                             "application/json; charset=UTF-8");
89                             conn.setRequestProperty("Accept", "
90                             application/json");
91                             conn.setDoOutput(true);
92                             conn.setDoInput(true);
93
94                         }
95                     }
96                 });
97
98                 thread.start();
99             }
100
101             Intent intent = new Intent(
102                 LoginActivity.this, MainActivity.class);
103             startActivity(intent);
104
105             finish();
106         }
107     }
108 }
```

```

87          //Converting Strings into JSON format
88          and adding them to the jsonParam Object
89          JSONObject jsonParam = new JSONObject(
90          );
91          jsonParam.put("GmailAddress",
92          GmailAddress);
93          jsonParam.put("Password", Password);
94          //Sending JSON Objects to HTTP
95          //SERIALISATION
96          DataOutputStream outputStream = new
97          DataOutputStream(conn.getOutputStream());
98          outputStream.writeBytes(jsonParam.
99          toString());
100         outputStream.flush();
101         outputStream.close();
102         //Retrieves JSON Objects from HTTP
103         //DESERIALISATION
104         InputStream inputStream = conn.
105         getInputStream();
106         BufferedReader bufferedReader = new
107         BufferedReader(new InputStreamReader(inputStream));
108         //Creates a string builder used to
109         //convert JSON data to string
110         StringBuilder sb = new StringBuilder()
111         ;
112         String line;
113         //Reads the JSON data
114         line = bufferedReader.readLine();
115         //checks if no JSON data was send,
116         //access is denied
117         if (line == null) {
118             access = 0; // cannot move on to
119             the next activity
120             Log.e("ACCESS", "denied");
121             signup.setText("Incorrect Email
122             and/or Password");
123         }
124         //while line is not = null, add the
125         //JSON data to the string builder
126         while (line != null) {
127             sb.append(line+"\n");
128             Log.e("ACCESS:", line); //checks
129             the access through logcat
130             line = bufferedReader.readLine();

```

```
121                         access = 1; //moves to the next
122             activity
123         }
124         bufferedReader.close();
125
126         Log.i("STATUS", String.valueOf(conn.
127            getResponseCode()));
127         Log.i("MSG", conn.getResponseMessage()
128     );
129         conn.disconnect();
130     } catch (Exception e) {
131         e.printStackTrace();
132     }
133 }
134 );
135
136     thread.start();
137 }
138 }
139
```

```
1 package com.example.bettinabenitez.bobapp;
2
3 import android.os.AsyncTask;
4 import android.support.v7.app.AppCompatActivity;
5 import android.os.Bundle;
6 import android.view.View;
7 import android.widget.Button;
8 import android.widget.EditText;
9 import android.widget.TextView;
10 import android.content.Intent;
11 import android.util.Log;
12
13 import java.io.BufferedReader;
14 import java.io.ByteArrayInputStream;
15 import java.io.IOException;
16 import java.io.InputStream;
17 import java.io.InputStreamReader;
18 import java.util.ArrayList;
19 import java.util.List;
20 import java.net.URL;
21 import java.net.HttpURLConnection;
22 import java.io.Writer;
23 import java.io.DataOutputStream;
24 import java.io.BufferedWriter;
25 import java.io.OutputStreamWriter;
26 import java.io.FileWriter;
27
28 import org.json.JSONObject;
29 import org.json.JSONException;
30
31 import static junit.framework.Assert.assertEquals;
32
33
34 public class SignUpActivity extends AppCompatActivity {
35
36     EditText email, firstName, lastName, password, userType
37     ;
38     String FirstName, GmailAddress;
39     String LastName;
40     String Password, Email, UserType;
41     TextView admin;
42     String ipAddress = "10.70.0.180:8080" ;
43
44     Button button4;
45
46     //
47     @Override
48     protected void onCreate(Bundle savedInstanceState) {
49         super.onCreate(savedInstanceState);
50         setContentView(R.layout.activity_signup);
```

```
50         email = (EditText) findViewById(R.id.emails);
51         firstName = (EditText) findViewById(R.id.firstname)
52         ;
53         lastName = (EditText) findViewById(R.id.lastname);
54         password = (EditText) findViewById(R.id.password);
55         userType = (EditText) findViewById(R.id.usertype);
56         admin = (TextView) findViewById(R.id.textView10);
57
58         button4 = (Button) findViewById(R.id.button4);
59         button4.setOnClickListener(new View.OnClickListener
60         () {
61             @Override
62             public void onClick(View view) {
63                 sendPost();
64                 if (isConnectedToServer() == false) {
65                     admin.setText("ERROR");
66                 }
67                 email.setText("");
68                 firstName.setText("");
69                 lastName.setText("");
70                 password.setText("");
71                 userType.setText("");
72                 Intent intent = new Intent(SignUpActivity.
73                     this, LoginActivity.class);
74                 startActivity(intent);
75             }
76         });
77
78     public boolean isConnectedToServer() {
79         try{
80             URL url = new URL("http://" + ipAddress + "/"
81             postdata");
82             HttpURLConnection conn = (HttpURLConnection)
83             url.openConnection();
84             conn.setRequestMethod("POST");
85             conn.setRequestProperty("Content-Type", "application/json; charset=UTF-8");
86             conn.setRequestProperty("Accept", "application/
87             json");
88             conn.setDoOutput(true);
89             conn.setDoInput(true);
90             return true;
91         } catch (Exception e) {
92             return false;
93         }
94     }
95 }
```

```
93
94     public void sendPost() {
95         Thread thread = new Thread(new Runnable() {
96             @Override
97             public void run() {
98                 try {
99                     GmailAddress = email.getText().
100                        toString();
101                    FirstName = firstName.getText().
102                        toString();
103                    LastName = lastName.getText().toString
104                );
105
106
107                URL url = new URL("http://10.0.2.2:
108                    8080/postdata");
109                HttpURLConnection conn = (
110                    HttpURLConnection) url.openConnection();
111                conn.setRequestMethod("POST");
112                conn.setRequestProperty("Content-Type"
113                    , "application/json; charset=UTF-8");
114                conn.setRequestProperty("Accept",
115                    "application/json");
116                conn.setDoOutput(true);
117                conn.setDoInput(true);
118
119                JSONObject jsonParam = new JSONObject(
120                    );
121                jsonParam.put("GmailAddress",
122                    GmailAddress);
123                jsonParam.put("FirstName", FirstName);
124                jsonParam.put("LastName", LastName);
125                jsonParam.put("Password", Password);
126                jsonParam.put("UserType", UserType);
127
128                DataOutputStream os = new
129                    DataOutputStream(conn.getOutputStream());
130                os.writeBytes(jsonParam.toString());
131
132                os.flush();
133                os.close();
134
135                Log.i("STATUS", String.valueOf(conn.
136                    getResponseCode()));
137                Log.i("MSG" , conn.getResponseMessage()
138                    );
```

```
129 });
130
131         conn.disconnect();
132     } catch (Exception e) {
133         e.printStackTrace();
134     }
135 }
136 );
137
138     thread.start();
139 }
140
141
142 }
143
144
145
```