Android + JSON + PHP + MySQL

1. Open Application > XAMPP > manager-osx
2. Start mysql & webserver service
3. Test in browser by typing http://localhost
4. Create a folder “mobile” inside “/Applications/XAMPP/htdocs/”
5. Open DreamWeaver → Create hello.html (File → New → HTML) to print “Hello”
6. Test: http://localhost/mobile/hello.html

//

7. Follow the example at https://goo.gl/jSSd

Create a table named ‘people’

```
1. CREATE TABLE `people` (
2. `id` INT NOT NULL AUTO_INCREMENT PRIMARY KEY ,
3. `name` VARCHAR( 100 ) NOT NULL ,
4. `sex` BOOL NOT NULL DEFAULT '1',
5. `birthyear` INT NOT NULL
6. )
```

```
//PhP
<?php
      //mobile/people.php
      mysql_connect('localhost','root', '', '');
      mysql_select_db("PeopleData");
      $q=mysql_query("SELECT * FROM people WHERE 1");
      while($e=mysql_fetch_assoc($q))
              $output[]=$e;
      print(json_encode($output));
      mysql_close();
      // 1 "A" 1 1970
      // 2 "B" 0 1990
?>
```

```
//Android
7.1 Create a new project “JsonApp”
7.2 Create Client.java in the same path with MainActivity
7.3 Implement AsyncTask<Void, Void, Void> on Client.java
```

- Insert onPostExecute function inside Client.java class

7.4 Inside onCreate function of MainActivity

- TextView tv = (TextView)findViewById(R.id.textView);
- Client c = new Client();
- c.tv = tv;
- c.execute();

```
//0. Put these two lines above doInBackground
public TextView tv;
String result = "";


//1. Inside doInBackground
HttpClient a = new DefaultHttpClient();

//the year data to send
ArrayList<NameValuePair> nameValuePairs = new ArrayList<NameValuePair>();
nameValuePairs.add(new BasicNameValuePair("year","1980"));

//http post
try{
          HttpClient httpclient = new DefaultHttpClient();
          //Localhostj-> 10.0.2.2
          HttpPost httppost = new
          HttpPost("http://10.0.2.2/mobile/getAllPeopleBornAfter.php");
          //10.0.2.2 for emulator connected to localhost
          httppost.setEntity(new UrlEncodedFormEntity(nameValuePairs));
          HttpResponse response = httpclient.execute(httppost);
          HttpEntity entity = response.getEntity();
          InputStream is = entity.getContent();

          //Copy line 19 ~ 27 from the example
          BufferedReader reader = new BufferedReader(new
          InputStreamReader(is,"UTF-8"),8);
          StringBuilder sb = new StringBuilder();
          String line = null;
          while ((line = reader.readLine()) != null) {
              sb.append(line + "\n");
          }
          is.close();

         //parse json data
         JSONArray jArray = new JSONArray(sb.toString());
          for(int i=0;i<jArray.length();i++){
             JSONObject json_data = jArray.getJSONObject(i);
```

```
                result += "\n\n id: "+json_data.getInt("id")+
                    "\n name: "+json_data.getString("name")+
                    "\n sex: "+json_data.getInt("sex")+
                    "\n birthyear: "+json_data.getInt("birthyear");
            }

        }catch(JSONException e){
            Log.e("log_tag", "Error parsing data "+e.toString());
        }catch(Exception e){
            Log.e("log_tag", "Error in http connection "+e.toString());
        }

        return null;
}

@Override
protected void onPostExecute(Void aVoid) {
    super.onPostExecute(aVoid);
    tv.setText(result);
}

//2. Inside Manifest
<uses-permission android:name="android.permission.INTERNET" />

//3. Inside "build.gradle (Module:app)" file, put
useLibrary 'org.apache.http.legacy'
//inside android { buildToolsVersion …. }, and sync it then.
```