**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>

//////////////////////////////////////////////////

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1. 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**](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.

8. สำรวจแบบสอบถาม <https://goo.gl/qNyiGL>