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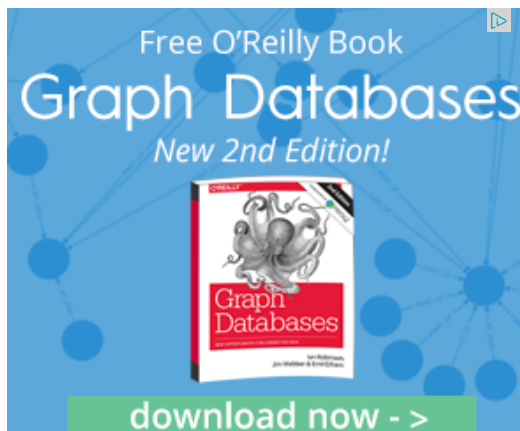
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Android MySQL Tutorial to Perform Basic CRUD Operation

October 24, 2015 by Belal Khan — 97 Comments

I got mails regarding Android MySQL Connection Problems. So I am writing this tutorial. In this Android MySQL Tutorial we will cover the basic CRUD (Create, Read, Update and Delete) Operation. So that you will be able to handle MySQL Database after going through this tutorial.

Video Demonstration of the Final Output

Before moving ahead you can check this video to know what you will be creating.

Android App to Perform CRUD Operation in MySQL Data...

Prerequisites - Android MySQL Tutorial

- Android Studio (Though you can do the same with eclipse)
- Wamp / Xamp Server (You can also use a live hosting server)

Creating the MySQL Database

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	1 **id**	int(11)		No	*None*	AUTO_INCREMENT	Change	Drop	
	2 **name**	varchar(100) latin1_swedish_ci		No	*None*		Change	Drop	
	3 **designation**	varchar(100) latin1_swedish_ci		No	*None*		Change	Drop	
	4 **salary**	varchar(100) latin1_swedish_ci		No	*None*		Change	Drop	

↑___ ☐ Check All   *With selected:* 📋 Browse   ✏ Change   ⊖ Drop   🔑 Primary   🔢 Unique   🗂 Index

Employee Table

- As you can see I have a table named **employee** with 4 columns (id, name, designation, salary). Id is set auto increment and primary key so we do not need to insert id.
- Now we will create our php scripts.

Creating PHP Scripts

- The first thing we need is to connect to the database. So create a file named **dbConnect.php** and write the following code.

```php
<?php
/*
author: Belal Khan
website: https://www.simplifiedcoding.net

My Database is androiddb
you need to change the database name rest the things are default if you are using wamp or xampp server
You may need to change the host user name or password if you have changed the defaults in your server
*/

//Defining Constants
define('HOST','localhost');
define('USER','root');
define('PASS','');
define('DB','androiddb');

//Connecting to Database
$con = mysqli_connect(HOST,USER,PASS,DB) or die('Unable to Connect');
```

- Now in CRUD the first thing is to insert data (**C**reate)
- So create a file name **addEmp.php**. This script will add an employee.

```php
<?php
if($_SERVER['REQUEST_METHOD']=='POST'){

//Getting values
$name = $_POST['name'];
$desg = $_POST['desg'];
$sal = $_POST['salary'];

//Creating an sql query
$sql = "INSERT INTO employee (name,designation,salary) VALUES ('$name','$desg','$sal')";

//Importing our db connection script
```

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```
22   //Closing the database
23   mysqli_close($con);
24   }
```

- Now after adding an employee we will fetch the name and id of all the employees. So that user can select a particular employee to see all the details of that employee.
- For this create a new file named **getAllEmp.php** and write the following code.

```php
1    <?php
2    //Importing Database Script
3    require_once('dbConnect.php');
4
5    //Creating sql query
6    $sql = "SELECT * FROM employee";
7
8    //getting result
9    $r = mysqli_query($con,$sql);
10
11   //creating a blank array
12   $result = array();
13
14   //looping through all the records fetched
15   while($row = mysqli_fetch_array($r)){
16
17   //Pushing name and id in the blank array created
18   array_push($result,array(
19   "id"=>$row['id'],
20   "name"=>$row['name']
21   ));
22   }
23
24   //Displaying the array in json format
25   echo json_encode(array('result'=>$result));
26
27   mysqli_close($con);
```

- Now we need to display a selected employee. For this create a new file named **getEmp.php** and write the following code.

```php
1    <?php
2
3    //Getting the requested id
4    $id = $_GET['id'];
5
6    //Importing database
7    require_once('dbConnect.php');
8
9    //Creating sql query with where clause to get an specific employee
10   $sql = "SELECT * FROM employee WHERE id=$id";
11
12   //getting result
13   $r = mysqli_query($con,$sql);
14
15   //pushing result to an array
16   $result = array();
17   $row = mysqli_fetch_array($r);
18   array_push($result,array(
19   "id"=>$row['id'],
```

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```
20    mysqli_close($con);
```

- Now in CRUD we have completed (**C**-Create (Insert) and **R**-Read(Fetch)) the next is **U**-Update. We may need to update the details of an existing employee. For this create a new file named **updateEmp.php** and write the following code.

```php
1   <?php
2   if($_SERVER['REQUEST_METHOD']=='POST'){
3   //Getting values
4   $id = $_POST['id'];
5   $name = $_POST['name'];
6   $desg = $_POST['desg'];
7   $sal = $_POST['salary'];
8
9   //importing database connection script
10  require_once('dbConnect.php');
11
12  //Creating sql query
13  $sql = "UPDATE employee SET name = '$name', designation = '$desg', salary = '$sal' WHERE id = $id;";
14
15  //Updating database table
16  if(mysqli_query($con,$sql)){
17  echo 'Employee Updated Successfully';
18  }else{
19  echo 'Could Not Update Employee Try Again';
20  }
21
22  //closing connection
23  mysqli_close($con);
24  }
```

- Now the final thing which is **D**-Delete. We may need to delete an existing employee. For this create a new file named **deleteEmp.php** and write the following.

```php
1   <?php
2   //Getting Id
3   $id = $_GET['id'];
4
5   //Importing database
6   require_once('dbConnect.php');
7
8   //Creating sql query
9   $sql = "DELETE FROM employee WHERE id=$id;";
10
11  //Deleting record in database
12  if(mysqli_query($con,$sql)){
13  echo 'Employee Deleted Successfully';
14  }else{
15  echo 'Could Not Delete Employee Try Again';
16  }
17
18  //closing connection
19  mysqli_close($con);
```

- Now thats all we have created all the scripts for CRUD operation. Now we need the address of these scripts. In my case I am using wamp server. And my server is running in my ip -> http://192.168.94.1

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- So I am using wamp server and for wamp the root directory is www (usually c:/wamp/www). And I stored my scripts inside www/Android/CRUD. So the paths to my scripts would be

http://192.168.94.1/Android/CRUD/file_name.php

- This is for my case. You have to know the correct url according to your system. Now thats all for the server side part. Lets move to **android studio**.

Creating an Android Studio Project

- Create a new **Android Studio** project. For this Android MySQL Tutorial I have created my project named **MySQLCRUD.**
- In this Android MySQL Application we will be performing some network operations we need internet permission. So add internet permission to your manifest file.

```
1    <uses-permission android:name="android.permission.INTERNET" />
```

- Now create a new java class inside your package named **Config.** And write the following code.

```
1  package net.simplifiedcoding.mysqlcrud;
2
3  /**
4   * Created by Belal on 10/24/2015.
5   */
6  public class Config {
7
8      //Address of our scripts of the CRUD
9      public static final String URL_ADD="http://192.168.94.1/Android/CRUD/addEmp.php";
```

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```
18    public static final String KEY_EMP_DESG = "desg";
19    public static final String KEY_EMP_SAL = "salary";
20
21    //JSON Tags
22    public static final String TAG_JSON_ARRAY="result";
23    public static final String TAG_ID = "id";
24    public static final String TAG_NAME = "name";
25    public static final String TAG_DESG = "desg";
26    public static final String TAG_SAL = "salary";
27
28    //employee id to pass with intent
29    public static final String EMP_ID = "emp_id";
30 }
```

- We will create a separate class for handling our networking request. So create a new class inside your package named **RequestHandler.** And write the following code.

```
1  package net.simplifiedcoding.mysqlcrud;
2
3  import java.io.BufferedReader;
4  import java.io.BufferedWriter;
5  import java.io.InputStreamReader;
6  import java.io.OutputStream;
7  import java.io.OutputStreamWriter;
8  import java.io.UnsupportedEncodingException;
9  import java.net.HttpURLConnection;
10 import java.net.URL;
11 import java.net.URLEncoder;
12 import java.util.HashMap;
13 import java.util.Map;
14
15 import javax.net.ssl.HttpsURLConnection;
16
17 /**
18  * Created by Belal on 10/24/2015.
19  */
20
21 public class RequestHandler {
22
23     //Method to send httpPostRequest
24     //This method is taking two arguments
25     //First argument is the URL of the script to which we will send the request
26     //Other is an HashMap with name value pairs containing the data to be send with the request
27     public String sendPostRequest(String requestURL,
28                                   HashMap<String, String> postDataParams) {
29         //Creating a URL
30         URL url;
31
32         //StringBuilder object to store the message retrieved from the server
33         StringBuilder sb = new StringBuilder();
34         try {
35             //Initializing Url
36             url = new URL(requestURL);
37
38             //Creating an httmlurl connection
39             HttpURLConnection conn = (HttpURLConnection) url.openConnection();
40
41             //Configuring connection properties
42             conn.setReadTimeout(15000);
43             conn.setConnectTimeout(15000);
44             conn.setRequestMethod("POST");
45             conn.setDoInput(true);
46             conn.setDoOutput(true);
```

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```
55                  writer.write(getPostDataString(postDataParams));
56
57                  writer.flush();
58                  writer.close();
59                  os.close();
60                  int responseCode = conn.getResponseCode();
61
62                  if (responseCode == HttpsURLConnection.HTTP_OK) {
63
64                      BufferedReader br = new BufferedReader(new InputStreamReader(conn.getInputStream()));
65                      sb = new StringBuilder();
66                      String response;
67                      //Reading server response
68                      while ((response = br.readLine()) != null){
69                          sb.append(response);
70                      }
71                  }
72
73          } catch (Exception e) {
74              e.printStackTrace();
75          }
76          return sb.toString();
77      }
78
79      public String sendGetRequest(String requestURL){
80          StringBuilder sb =new StringBuilder();
81          try {
82              URL url = new URL(requestURL);
83              HttpURLConnection con = (HttpURLConnection) url.openConnection();
84              BufferedReader bufferedReader = new BufferedReader(new InputStreamReader(con.getInputStream()))
85
86              String s;
87              while((s=bufferedReader.readLine())!=null){
88                  sb.append(s+"\n");
89              }
90          }catch(Exception e){
91          }
92          return sb.toString();
93      }
94
95      public String sendGetRequestParam(String requestURL, String id){
96          StringBuilder sb =new StringBuilder();
97          try {
98              URL url = new URL(requestURL+id);
99              HttpURLConnection con = (HttpURLConnection) url.openConnection();
100             BufferedReader bufferedReader = new BufferedReader(new InputStreamReader(con.getInputStream()))
101
102             String s;
103             while((s=bufferedReader.readLine())!=null){
104                 sb.append(s+"\n");
105             }
106         }catch(Exception e){
107         }
108         return sb.toString();
109     }
110
111     private String getPostDataString(HashMap<String, String> params) throws UnsupportedEncodingException {
112         StringBuilder result = new StringBuilder();
113         boolean first = true;
114         for (Map.Entry<String, String> entry : params.entrySet()) {
115             if (first)
116                 first = false;
117             else
118                 result.append("&");
119
120             result.append(URLEncoder.encode(entry.getKey(), "UTF-8"));
```

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- For our application we will need two more activities other than our **MainActivity**. One is to show the list of all employee from where user can select a particular employee to see. And the other one is to show the details of selected employee from where we can update and delete the employee as well. And from the **MainActivity** we will add an employee. So before going further create two more activities named **ViewAllEmployee** and **ViewEmployee**.
- Now for **activity_main.xml** create the following layout

- Use the following xml code for the above layout

```
1   <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
2       xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
3       android:orientation="vertical"
4       android:layout_height="match_parent" android:paddingLeft="@dimen/activity_horizontal_margin"
5       android:paddingRight="@dimen/activity_horizontal_margin"
6       android:paddingTop="@dimen/activity_vertical_margin"
7       android:paddingBottom="@dimen/activity_vertical_margin" tools:context=".MainActivity">
8
9       <TextView
10          android:layout_width="wrap_content"
11          android:layout_height="wrap_content"
12          android:text="Employee Name" />
13
14      <EditText
15          android:layout_width="match_parent"
16          android:layout_height="wrap_content"
17          android:id="@+id/editTextName" />
18
19      <TextView
20          android:layout_width="wrap_content"
21          android:layout_height="wrap_content"
22          android:text="Designation" />
23
24      <EditText
25          android:layout_width="match_parent"
26          android:layout_height="wrap_content"
27          android:id="@+id/editTextDesg" />
28
29      <TextView
30          android:layout_width="wrap_content"
31          android:layout_height="wrap_content"
32          android:text="Salary" />
33
34      <EditText
35          android:layout_width="match_parent"
```

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```
45      <Button
46          android:layout_width="match_parent"
47          android:layout_height="wrap_content"
48          android:text="View Employee"
49          android:id="@+id/buttonView" />
50
51  </LinearLayout>
```

- Write the following code in **MainActivity.java**

```
1   package net.simplifiedcoding.mysqlcrud;
2
3   import android.app.ProgressDialog;
4   import android.content.Intent;
5   import android.os.AsyncTask;
6   import android.support.v7.app.AppCompatActivity;
7   import android.os.Bundle;
8   import android.view.Menu;
9   import android.view.MenuItem;
10  import android.view.View;
11  import android.widget.Button;
12  import android.widget.EditText;
13  import android.widget.Toast;
14
15  import java.util.HashMap;
16
17  public class MainActivity extends AppCompatActivity implements View.OnClickListener{
18
19      //Defining views
20      private EditText editTextName;
21      private EditText editTextDesg;
22      private EditText editTextSal;
23
24      private Button buttonAdd;
25      private Button buttonView;
26
27      @Override
28      protected void onCreate(Bundle savedInstanceState) {
29          super.onCreate(savedInstanceState);
30          setContentView(R.layout.activity_main);
31
32          //Initializing views
33          editTextName = (EditText) findViewById(R.id.editTextName);
34          editTextDesg = (EditText) findViewById(R.id.editTextDesg);
35          editTextSal = (EditText) findViewById(R.id.editTextSalary);
36
37          buttonAdd = (Button) findViewById(R.id.buttonAdd);
38          buttonView = (Button) findViewById(R.id.buttonView);
39
40          //Setting listeners to button
41          buttonAdd.setOnClickListener(this);
42          buttonView.setOnClickListener(this);
43      }
44
45
46      //Adding an employee
47      private void addEmployee(){
48
49          final String name = editTextName.getText().toString().trim();
50          final String desg = editTextDesg.getText().toString().trim();
51          final String sal = editTextSal.getText().toString().trim();
52
53          class AddEmployee extends AsyncTask<Void,Void,String>{
```

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```
63              @Override
64              protected void onPostExecute(String s) {
65                  super.onPostExecute(s);
66                  loading.dismiss();
67                  Toast.makeText(MainActivity.this,s,Toast.LENGTH_LONG).show();
68              }
69
70              @Override
71              protected String doInBackground(Void... v) {
72                  HashMap<String,String> params = new HashMap<>();
73                  params.put(Config.KEY_EMP_NAME,name);
74                  params.put(Config.KEY_EMP_DESG,desg);
75                  params.put(Config.KEY_EMP_SAL,sal);
76
77                  RequestHandler rh = new RequestHandler();
78                  String res = rh.sendPostRequest(Config.URL_ADD, params);
79                  return res;
80              }
81          }
82
83          AddEmployee ae = new AddEmployee();
84          ae.execute();
85      }
86
87      @Override
88      public void onClick(View v) {
89          if(v == buttonAdd){
90              addEmployee();
91          }
92
93          if(v == buttonView){
94              startActivity(new Intent(this,ViewAllEmployee.class));
95          }
96      }
97 }
```

- Now from this activity we will move to the activity **ViewAllEmployee.** So create the following layout in ViewAllEmployee's layout file which is **activity_view_all_employee.xml**.
- In this activity we will create a **ListView** only.
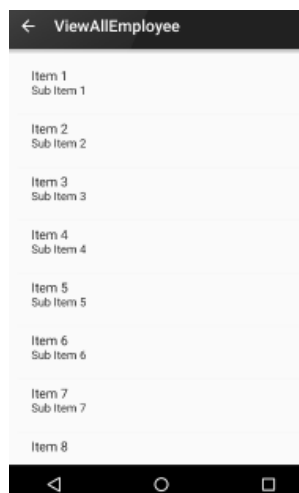
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```
 6        android:paddingTop="@dimen/activity_vertical_margin"
 7        android:paddingBottom="@dimen/activity_vertical_margin"
 8        tools:context="net.simplifiedcoding.mysqlcrud.ViewAllEmployee">
 9
10
11        <ListView
12            android:layout_width="match_parent"
13            android:layout_height="wrap_content"
14            android:id="@+id/listView" />
15
16
17    </LinearLayout>
```

- Because we are creating a **ListView,** we need one more Layout Resource File for our ListView. Inside layouts create a new xml file named **list_item.xml** and write the following code.

```
 1    <?xml version="1.0" encoding="utf-8"?>
 2    <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
 3        android:orientation="vertical" android:layout_width="match_parent"
 4        android:layout_height="match_parent">
 5
 6        <TextView
 7            android:id="@+id/id"
 8            android:layout_width="wrap_content"
 9            android:layout_height="wrap_content" />
10
11        <TextView
12            android:id="@+id/name"
13            android:layout_width="wrap_content"
14            android:layout_height="wrap_content" />
15
16    </LinearLayout>
```

- Now write the following code in **ViewAllEmployee.java**

```
 1    package net.simplifiedcoding.mysqlcrud;
 2
 3    import android.app.ProgressDialog;
 4    import android.content.Intent;
 5    import android.os.AsyncTask;
 6    import android.support.v7.app.AppCompatActivity;
 7    import android.os.Bundle;
 8    import android.view.Menu;
 9    import android.view.MenuItem;
10    import android.view.View;
11    import android.widget.AdapterView;
12    import android.widget.ListAdapter;
13    import android.widget.ListView;
14    import android.widget.SimpleAdapter;
15    import android.widget.Toast;
16
17    import org.json.JSONArray;
18    import org.json.JSONException;
19    import org.json.JSONObject;
20
21    import java.util.ArrayList;
22    import java.util.HashMap;
23
24    public class ViewAllEmployee extends AppCompatActivity implements ListView.OnItemClickListener {
25
```

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```java
34        listview = (ListView) findViewById(R.id.listview);
35        listView.setOnItemClickListener(this);
36        getJSON();
37    }
38
39
40    private void showEmployee(){
41        JSONObject jsonObject = null;
42        ArrayList<HashMap<String,String>> list = new ArrayList<HashMap<String, String>>();
43        try {
44            jsonObject = new JSONObject(JSON_STRING);
45            JSONArray result = jsonObject.getJSONArray(Config.TAG_JSON_ARRAY);
46
47            for(int i = 0; i<result.length(); i++){
48                JSONObject jo = result.getJSONObject(i);
49                String id = jo.getString(Config.TAG_ID);
50                String name = jo.getString(Config.TAG_NAME);
51
52                HashMap<String,String> employees = new HashMap<>();
53                employees.put(Config.TAG_ID,id);
54                employees.put(Config.TAG_NAME,name);
55                list.add(employees);
56            }
57
58        } catch (JSONException e) {
59            e.printStackTrace();
60        }
61
62        ListAdapter adapter = new SimpleAdapter(
63                ViewAllEmployee.this, list, R.layout.list_item,
64                new String[]{Config.TAG_ID,Config.TAG_NAME},
65                new int[]{R.id.id, R.id.name});
66
67        listView.setAdapter(adapter);
68    }
69
70    private void getJSON(){
71        class GetJSON extends AsyncTask<Void,Void,String>{
72
73            ProgressDialog loading;
74            @Override
75            protected void onPreExecute() {
76                super.onPreExecute();
77                loading = ProgressDialog.show(ViewAllEmployee.this,"Fetching Data","Wait...",false,false);
78            }
79
80            @Override
81            protected void onPostExecute(String s) {
82                super.onPostExecute(s);
83                loading.dismiss();
84                JSON_STRING = s;
85                showEmployee();
86            }
87
88            @Override
89            protected String doInBackground(Void... params) {
90                RequestHandler rh = new RequestHandler();
91                String s = rh.sendGetRequest(Config.URL_GET_ALL);
92                return s;
93            }
94        }
95        GetJSON gj = new GetJSON();
96        gj.execute();
97    }
98
99    @Override
```
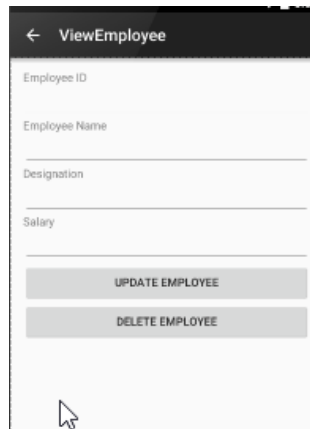
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- Now from this screen user can select a particular employee to see the detail. And from this activity we will move to the next activity where we can delete or update employee. So create following layout for your activity ViewEmployee. For this activity I have **activity_view_employee.xml** . So we will create the following layout.

  - Write the following code in **ViewEmployee.java**

```
1  package net.simplifiedcoding.mysqlcrud;
2
3  import android.app.ProgressDialog;
4  import android.content.DialogInterface;
5  import android.content.Intent;
6  import android.os.AsyncTask;
7  import android.support.v7.app.AlertDialog;
8  import android.support.v7.app.AppCompatActivity;
9  import android.os.Bundle;
10 import android.view.Menu;
11 import android.view.MenuItem;
12 import android.view.View;
13 import android.widget.Button;
14 import android.widget.EditText;
15 import android.widget.Toast;
16
17 import org.json.JSONArray;
18 import org.json.JSONException;
19 import org.json.JSONObject;
20
21 import java.util.HashMap;
22
23 public class ViewEmployee extends AppCompatActivity implements View.OnClickListener {
24
25     private EditText editTextId;
26     private EditText editTextName;
27     private EditText editTextDesg;
28     private EditText editTextSalary;
29
30     private Button buttonUpdate;
31     private Button buttonDelete;
32
```

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```
42          id = intent.getStringExtra(Config.EMP_ID);
43
44          editTextId = (EditText) findViewById(R.id.editTextId);
45          editTextName = (EditText) findViewById(R.id.editTextName);
46          editTextDesg = (EditText) findViewById(R.id.editTextDesg);
47          editTextSalary = (EditText) findViewById(R.id.editTextSalary);
48
49          buttonUpdate = (Button) findViewById(R.id.buttonUpdate);
50          buttonDelete = (Button) findViewById(R.id.buttonDelete);
51
52          buttonUpdate.setOnClickListener(this);
53          buttonDelete.setOnClickListener(this);
54
55          editTextId.setText(id);
56
57          getEmployee();
58      }
59
60      private void getEmployee(){
61          class GetEmployee extends AsyncTask<Void,Void,String>{
62              ProgressDialog loading;
63              @Override
64              protected void onPreExecute() {
65                  super.onPreExecute();
66                  loading = ProgressDialog.show(ViewEmployee.this,"Fetching...","Wait...",false,false);
67              }
68
69              @Override
70              protected void onPostExecute(String s) {
71                  super.onPostExecute(s);
72                  loading.dismiss();
73                  showEmployee(s);
74              }
75
76              @Override
77              protected String doInBackground(Void... params) {
78                  RequestHandler rh = new RequestHandler();
79                  String s = rh.sendGetRequestParam(Config.URL_GET_EMP,id);
80                  return s;
81              }
82          }
83          GetEmployee ge = new GetEmployee();
84          ge.execute();
85      }
86
87      private void showEmployee(String json){
88          try {
89              JSONObject jsonObject = new JSONObject(json);
90              JSONArray result = jsonObject.getJSONArray(Config.TAG_JSON_ARRAY);
91              JSONObject c = result.getJSONObject(0);
92              String name = c.getString(Config.TAG_NAME);
93              String desg = c.getString(Config.TAG_DESG);
94              String sal = c.getString(Config.TAG_SAL);
95
96              editTextName.setText(name);
97              editTextDesg.setText(desg);
98              editTextSalary.setText(sal);
99
100         } catch (JSONException e) {
101             e.printStackTrace();
102         }
103     }
104
105
106     private void updateEmployee(){
```

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```
115         super.onPreExecute();
116         loading = ProgressDialog.show(ViewEmployee.this,"Updating...","Wait...",false,false);
117     }
118
119     @Override
120     protected void onPostExecute(String s) {
121         super.onPostExecute(s);
122         loading.dismiss();
123         Toast.makeText(ViewEmployee.this,s,Toast.LENGTH_LONG).show();
124     }
125
126     @Override
127     protected String doInBackground(Void... params) {
128         HashMap<String,String> hashMap = new HashMap<>();
129         hashMap.put(Config.KEY_EMP_ID,id);
130         hashMap.put(Config.KEY_EMP_NAME,name);
131         hashMap.put(Config.KEY_EMP_DESG,desg);
132         hashMap.put(Config.KEY_EMP_SAL,salary);
133
134         RequestHandler rh = new RequestHandler();
135
136         String s = rh.sendPostRequest(Config.URL_UPDATE_EMP,hashMap);
137
138         return s;
139     }
140   }
141
142   UpdateEmployee ue = new UpdateEmployee();
143   ue.execute();
144 }
145
146 private void deleteEmployee(){
147     class DeleteEmployee extends AsyncTask<Void,Void,String> {
148         ProgressDialog loading;
149
150         @Override
151         protected void onPreExecute() {
152             super.onPreExecute();
153             loading = ProgressDialog.show(ViewEmployee.this, "Updating...", "Wait...", false, false);
154         }
155
156         @Override
157         protected void onPostExecute(String s) {
158             super.onPostExecute(s);
159             loading.dismiss();
160             Toast.makeText(ViewEmployee.this, s, Toast.LENGTH_LONG).show();
161         }
162
163         @Override
164         protected String doInBackground(Void... params) {
165             RequestHandler rh = new RequestHandler();
166             String s = rh.sendGetRequestParam(Config.URL_DELETE_EMP, id);
167             return s;
168         }
169     }
170
171   DeleteEmployee de = new DeleteEmployee();
172   de.execute();
173 }
174
175 private void confirmDeleteEmployee(){
176     AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder(this);
177     alertDialogBuilder.setMessage("Are you sure you want to delete this employee?");
178
179     alertDialogBuilder.setPositiveButton("Yes",
180             new DialogInterface.OnClickListener() {
```

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```
189            new DialogInterface.onClickListener() {
190                @Override
191                public void onClick(DialogInterface arg0, int arg1) {
192
193                }
194            });
195
196        AlertDialog alertDialog = alertDialogBuilder.create();
197        alertDialog.show();
198    }
199
200    @Override
201    public void onClick(View v) {
202        if(v == buttonUpdate){
203            updateEmployee();
204        }
205
206        if(v == buttonDelete){
207            confirmDeleteEmployee();
208        }
209    }
210 }
```

- Now try running your application and you will see the following output.

Android App to Perform CRUD Operation in MySQL Data... 🕙 ⤳

▶

- If you need my source code then you can get it from here

Android MySQL Tutorial to Perform Basic CRUD Operation (1094 downloads)

So thats all for this Android MySQL tutorial friends. Share this Android MySQL tutorial among your friends if you found it useful and Stay tuned for more android tutorials. Thank You 🙂

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Android PHP MySQL Login
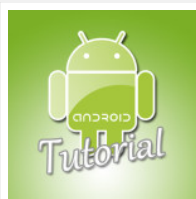
Android User Registration

Android Login and

Android MySQL

Filed Under: Android, PHP

Tagged With: android app mysql, android connect to mysql, android mysql, android mysql tutorial

About Belal Khan

I am Belal Khan, I am currently pursuing my MCA. In this blog I write tutorials and articles related to coding, app development, android etc.

Comments

Ruddi says
October 25, 2015 at 6:39 am

How do i also retrive image from the same table if the imge is stored as a link in the table ?

Reply

Belal Khan says
October 25, 2015 at 6:43 am

I have written tutorials for retrieving as well.. you can check these

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Ruddi says
October 25, 2015 at 6:46 am

thanks you're awesome

Reply

Ruddi says
October 25, 2015 at 7:34 am

If i want to create i collum in the same table called image and i store an image as a link how do i retrive that image if i want to use this tut.?

Reply

Belal Khan says
October 25, 2015 at 7:44 am

Just add a new field in json named image url .. and get the url of image.. and then with the URL you can show the image.

Reply

Ruddi says
October 25, 2015 at 9:23 am

is it possible that you can show me how?

Ruddi says

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vivek kumar says
October 25, 2015 at 11:12 am

Sir,can u tell me how to create a login with sheared preference.
In other word i want to say that if a user logged in then before any activity application checks
wheather user is logged in or not and how to add logout.

Reply

Belal Khan says
October 25, 2015 at 11:14 am

Ok i will post a tutorial for this asap

Reply

vivek kumar says
October 25, 2015 at 1:08 pm

Thank u sir,
i am waiting for that tutorial.

Reply

Belal Khan says

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Reply

Josh says
October 26, 2015 at 8:34 am

Mr. Belal Khan.. Thank you for this tutorial. But I got a problem. When i click View Button it says
"Unfortunately, MySQLCRUD has stopped". I'm sucssesfully add data to mysql. Please help me Mr.
Belal Khan

Reply

Belal Khan says
October 26, 2015 at 8:36 am

Check the logcat for the exact error

Reply

achoda says
October 26, 2015 at 10:26 pm

hey, thank you but i have tried and its not working out, it displays a small black circle at the bottom
and nothing is inserted into the database.
what could be the problem?

Reply

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Reply

Belal Khan says
October 27, 2015 at 4:17 am

What server you are using? A live webserver of wamp or xampp server??

Reply

achoda says
October 27, 2015 at 5:29 am

am using xampp

Reply

Belal Khan says
October 27, 2015 at 6:10 am

Then you tell me first where you are running your app in the emulator or in your
phone directly..
If you are using your phone to test the app.. Then it will not work because your phone
cannot access xampp directly…

Now if you are using emulator then you have to check whether your emulator can
access your local server or not…

to check this first go to your command prompt if you are using windows.. then type
ipconfig.. make sure your xampp server is running while doing this..

You will see many ips there

Now open browser in your android emulator.. and in the address bar
write this http://192.168.94.1/your_scripts_directory_in_htdocs   search this website

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scripts or not...

Reply

achoda says
October 27, 2015 at 6:30 am

emulator is slow in my pc, it takes too long, what else can i use

achoda says
October 27, 2015 at 6:44 am

can the genymotion emulator work

achoda says
October 27, 2015 at 6:34 am

can a phone access wamp, should i install wamp?.
which server can a phone access?

Reply

Belal Khan says
October 27, 2015 at 7:22 am

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Use hostinger.in for a free hosting

Reply

achoda says
October 27, 2015 at 7:48 am

will it work with a phone.

Reply

achoda says
October 27, 2015 at 8:13 am

i have never used hostinger before, can you help me with some procedures

Reply

Belal Khan says
October 27, 2015 at 8:19 am

You can see the procedure of using hostinger here ->
https://www.simplifiedcoding.net/php-android-tutorial-part-1/
Hostinger will work with your phone because it is a live server and with the URL
anyone can access.. You just make sure that your phone has an active internet
connection..

Reply

achoda says
October 27, 2015 at 8:20 am

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achoda says
October 27, 2015 at 8:03 am

let me try.
thanks, your soo great

Reply

faiz says
October 27, 2015 at 2:47 pm

i am doing an android application that can register, login, update, view and delete. now iam a bit confuse as i unsuccessful to get the information from db to view and update them.. how to update the profile of login user. pretty sure after login, id will be retrieve. hope u can help

Reply

Belal Khan says
October 27, 2015 at 3:48 pm

In this tutorial I have shown the method to update mysql row .. try it

Reply

LEE CHEE PHANG says

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Belal Khan says
October 28, 2015 at 3:02 pm

Your welcome keep visiting for more tutorials

Reply

PRATHAP says
October 28, 2015 at 12:51 pm

Just blowed away bro..!! just trying for almost two days…bt you made it so simple…10 minutes job…bt it took more than a days count bt failed even…thankx bro…cheers (y)

Reply

Belal Khan says
October 28, 2015 at 2:55 pm

Your welcome buddy… I am glad it helped you keep visiting for more tutorials 🙂

Reply

Marco says
October 28, 2015 at 9:59 pm

Hi Belal, I can't get items. I have a php which works out just fine (it works when I open it on the browser) and I finalise it with a print(json_encode(array($output)));

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```
for(int i=0; i<jArray.length();i++){
JSONObject json = jArray.getJSONObject(i);
s = s +
"Value1 : "+json.getString("Value1")+"\n"+
"Value2 : "+json.getString("Value2")+"\n"+
"Value3 : "+json.getString("Value3")+"\n\n";

}

resultView.setText(s);
```

Reply

Belal Khan says
October 29, 2015 at 2:05 am

You just missed out this line

JSONObject jsonobject = new JSONObject(your json string);

//Then get array from this object

JSONArray array = jsonobject.getJSONArray(your array name here);

//Then run the loop

Reply

Marco says
October 29, 2015 at 8:09 am

Hi Belal, thanks but are you sure this is sufficient?

```
try {
String s = "";
```

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s = s +
"Value1 : "+json.getString("Value1")+"\n"+
"Value2 : "+json.getString("Value2")+"\n"+
"Value3 : "+json.getString("Value3")+"\n\n";

}

resultView.setText(s);

still it does not work :/ Maybe the last statement should be "resultView.setText(result);" ?

Reply

Marco says
October 29, 2015 at 8:14 am

edit: neither "resultView.setText(result);" does work, how incredible is it?

Reply

Belal Khan says
October 29, 2015 at 8:28 am

you did the same thing again.. first you need to get the json object and then you can get the array..
See the code I have posted in the previous comment

Or you try downloading my project

Marco says
October 29, 2015 at 10:44 am

What about now?

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```
JSONObject obj1=arr.getJSONObject(i);
String Value1=obj1.getString("Value1");
String Value2=obj1.getString("Value2");
TextView.setText(Value1); //set TextView's content to the String Value1
TextView2.setText(Value2); //set TextView2's content to the String Value2
}
```

Kowa says
October 29, 2015 at 8:32 am

Awesome tutorial !! Thank you Belal !!

Reply

Kevien says
October 29, 2015 at 8:34 am

Thanks a lot.great one!!really easy to understand for beginner.

Reply

Marco says
October 30, 2015 at 8:26 am

why im getting this error on your php script?

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Reply

Belal Khan says
October 30, 2015 at 8:30 am

I guess it is a problem with your database connection check dbconnect.PHP is working or not

Reply

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but this line of error i do not know how to fix this. and where exactly it is.
can you help me

Reply

Marco says
October 30, 2015 at 12:08 pm

Can you share your PHP script (without the sensible information)?

Reply

Belal Khan says
October 30, 2015 at 1:35 pm

Download the source code from the link given you will get the php scripts as well

Phang says
October 31, 2015 at 8:14 am

Hi, can i know get all employees name into spinner instead of listView? A spinner list just with
employees name, how can i do that?

Reply

Belal Khan says

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Reply

Mambo says
November 2, 2015 at 8:32 am

Hi. Thanx so much for the tutorials. it helps alot. Am kenyan developer and getting a fellow developer to ask foe help aint easy at all. I am having a problem receiving the json objects. as soon as i run the class to check data base the emulator shuts down. and real device force close. Writing to data base is ok.

Pliz help.

Reply

Belal Khan says
November 2, 2015 at 8:34 am

I didn't get you tell me your exact problem

Reply

Nm says
November 2, 2015 at 1:24 pm

Hi , i got problem if you can help me with it please : (. when i clicked on item it dose not move me to viewEmployee
it says "Unfortunately, MySQLCRUD has stopped" ?

Reply

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Reply

Jaime says
November 2, 2015 at 9:00 pm

Hello Friend,
First, thank you for the tutorial, continue on that path. second please ask something like this tutorial but using the library volle. third an important consultation. What do you use it?. for a database of over 1 million records. that database engine? What kind of library would use? this or volleyball? and why.

Reply

Belal Khan says
November 3, 2015 at 3:08 am

If you are developing an application then use library .. i guess volley is the best I found so far.. and if you are learning use core methods shown in the tutorial

Reply

gunner says
November 3, 2015 at 2:55 am

HI

Thanks for the tute. I am able to work all the functions i.e. RUD except 'C'. Add employee is not working for me. Is it due to some permission required or something.

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Don't bother. Figured it out. Thanks again

Reply

Belal Khan says
November 3, 2015 at 3:39 am

Thats great happy coding cheers (y)

Reply

Belal Khan says
November 3, 2015 at 3:09 am

So tell me what the exact error you are getting so that I can help you out 🙂

Reply

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following problem, it always failed when i try to fetch the datas, this also happened with your login and registration tutorial app that i downloaded before..all input were enter the database perfectly fine but seems like the app couldn't read it when i call the datas back..would you please help me..thank you so much

Reply

Shubham Yadav says
November 4, 2015 at 5:18 pm

Hey thanks for the tutorial but i need ur help –
see i compiled my source code as per u stated but now when i am debugging / running my app its shows the errors (somewhat 40 errors) in all the three Java Class that u told us to define –

* MainActivity
* ViewAllEmployee
*ViewEmployee

and for all of these classes the error is on some keywords like RequestHandler , sendGetRequestParam(Config.URL_DELETE_EMP, id) , Config

Errors are :
cannot find symbol variable Config
cannot find symbol variable KEY_EMP_SAL
cannot find symbol class RequestHandler

etc….

For better info on exactly what the problem is i have uploaded a screenshot of IDE covering the errors and its suggestion .

https://drive.google.com/folderview?id=0BzPcbmh7-rcvOUQwOS16QlJqN00&usp=sharing

–

Please help me on this

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That is because you forgot to create the Config class.. See the tutorial carefully and create Config.java file where these constants are stored…
You have also forgot to create the RequestHandler class.. Follow the tutorial carefully

Reply

Belal Khan says
November 4, 2015 at 5:29 pm

You can also download my source code.

Reply

Shubham Yadav says
November 5, 2015 at 4:18 am

Thanks man .. Thanks a lot .. i found out the errors and corrected it and now it is working perfectly … (y) keep up

Reply

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and didn't realize the project added "import com.squareup.picasso.RequestHandler" to my imports… Just an FYI if you happen to run into this issue with Request Handler.

Reply

piz says
November 4, 2015 at 6:33 pm

HI , if i want input the chinese , but the DB display garbled ..

How can I do ? Please help me . Thanks

Reply

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insert large text like "a crazy fox jump over a lazy dog" only first letter A is getting inserted ? i have set field type to LARGETEXT .can you please help me in this . thanks

Reply

> Belal Khan says
> November 5, 2015 at 5:26 am
>
> the max size of my varchar is 100.. you can change it to 1000
>
> Reply

gunner says
November 5, 2015 at 10:10 pm

Hi Belal

Another question:

Consider this code segment:

```
LinearLayout ll = (LinearLayout) findViewById(R.id.linear);
for (int i = 0; i < result.length(); i++) {
JSONObject jo = result.getJSONObject(i);
String pname = jo.getString(Config.TAG_PCKG_NAME);
String price = rs + jo.getString(Config.TAG_PCKG_PRICE);
String Tag= "debugger2";
Log.i(Tag, pname);

HashMap employees = new HashMap();
employees.put(Config.TAG_PCKG_NAME, pname);
employees.put(Config.TAG_PCKG_PRICE, price);
list.add(employees);
```

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If I try to do it through a R.Drawable.filename thing, it does not take the file name as a string.

Reply

gunner says
November 6, 2015 at 5:09 am

Figured it out buddy, I needed to define a custom adapter in place of a simple adapter, posting the code here for the general good:

```
public class CustomAdapter extends SimpleAdapter{

private ArrayList<HashMap> results;
private final int[] bcgImage;
public CustomAdapter(Context context,
ArrayList<HashMap> data, int resource,
String[] from, int[] to, int[] bcgImage) {
super(context, data, resource, from, to);

this.bcgImage = bcgImage;
this.results = data;

}

@Override
public View getView(int position, View view, ViewGroup parent) {

View v = view;

if (v == null) {
LayoutInflater inflater = (LayoutInflater) parent.getContext()
.getSystemService(Context.LAYOUT_INFLATER_SERVICE);
v = inflater.inflate(R.layout.list_item, null);
}

v.setBackgroundResource(bcgImage[position]);
```

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```
        return v;
    }

    }
```

Reply

SHUBHAM YADAV says
November 6, 2015 at 3:57 am

Hi Bilal,
There is one another doubt which i wanted to ask ... Suppose if we want to do this project on
internet server instead of localhost. I know that all the php files along with database we have to
create in online server and furthermore we have to modify code also but my doubt is that whether
free hosting will allow this or not OR is there any restrictions while using free hosting.
I have to do it for practice basis only ...

Reply

Marco says
November 6, 2015 at 7:50 am

did you try hostinger

Reply

Shubham Yadav says
November 6, 2015 at 8:15 am

yeah i tried but its not working so i am in confusion like whether free hosting allows the
Direct MySQL connection or not 🙁

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Did you set a doin or subdomain?

Reply

Ali Wajdan Ansari says
November 6, 2015 at 11:25 am

I have done everything according to the tutorial and there are no errors but when I add an employee it does not show in the database and when I try to view employee data it does not show anything, any suggestions on what I am missing here. (I have filled the db with some data already but it does not show in the app)

Reply

Hiren P says
November 9, 2015 at 5:41 pm

Hey Belal, first off you are a genius lol! Keep up the great work and we will continue to learn from your amazing skills. Second, I am developing an application and was wondering if the source code you post on this site is open source. Can I legally use it in my application without any negative harm. Thank you once again and I am waiting on your reply!

Reply

Belal Khan says
November 9, 2015 at 5:47 pm

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shana says
November 10, 2015 at 2:21 am

AMAZING TUTORIALS!!!

I really appreciate your great work Mr. Belal.

Can I make a request??

I have a table in a live server that hosts the geolocations "name, latitude, longitude" of a number of moving objects. I would like to have a code that would fetch these values periodically from my database and then be able to plot them in a google map.

could you please help me in this?

At the very least, I am in need of the code that will fetch the values and parse the JSON objects before they are passed to a loop for plotting it with google maps markers. I would like to have the php code and the android code that deals with this particular problem…

my table is of the format:

cid: INT primary key
cname: VARCHAR "name of object"
clat: DOUBLE "latitude"
clong: DOUBLE "longitude"
sid: INT "for foreign key"

Thank you very much! I really appreciate your generosity and kindness!!

Shana

Reply

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Your tutorial has been a great help to a novice developer like me, Thanks for putting in the effort.

I need your advice. What do you think is the best way of implementing a Shopping cart. I have my items in a list view which on click opens a detailed page. There I have a button for add to cart. Now sould I save the information into a sqlite database or should I push it back into a mysql thing on the server or just create another list with global variables (just thinking out loud). A little help will be much appreciated.

Thanks
G

Reply

Marqus says
November 13, 2015 at 7:22 pm

I have been waiting for such tutorial so long…. but i have problem.
Pressing 'view employee' button results with blank screen.
PHP scripts on server are working corectly.
MySql database is on online server.
It seems like adapter won't display list_item…
I'm using Gingerbread, may this be a problem?
Any ideas whats going on? Thanks.

Reply

Luis Diniz says
November 15, 2015 at 12:19 am

Hey Belal Khan, great job! But I ran into some problems, actually it's not working when I try to add a new employee and the application crashes when I try to see the employees. I think the reason for that it that I'm using MAMP (I'm also using genymotion) how do I connect my emulator to the

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Hiren says

November 16, 2015 at 5:54 pm

Hey Belal! How can we modify this tutorial so that when users log into an application they can retrieve certain data according to a foreign key constraint in the employee table? For example, when a user logs in he/she can only view data entries they created.

Reply

Aulia Rahmat Sagala says

November 17, 2015 at 9:16 am

Sir thank you so much for the tutorial. But there is a problem. I've followed all of the tutorial above (I use Android Studio and MySQL Database). But the form is blank (data did not displayed) when I clicked the listview of the data (want to change/update and delete). All of the php and android code are same like yours (I just change some of them because my app is Restaurant App, the difference is only in the variables). Can you tell me what is the problem? What should I do to fix this problem? Sorry for my English. Thank you sir.

Reply

Chong says

November 20, 2015 at 4:24 am

Sir.. how to insert the data that i selected from the Spinner into mysql ?

Reply

Gil McGlory says

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others to do some of the work.. If you are interested, please let me know.
Thanks.

Reply

Belal Khan says
November 23, 2015 at 1:51 am

lets talk on facebook/Probelalkhan or google.com/+belalkhan to discuss further

Reply

faiz says
November 26, 2015 at 2:34 pm

hello belal. the tutorial is awesome, but i need to change a little bit of the coding. so instead of send id i send username.
Intent intent = getIntent();
user = intent.getStringExtra("user");
RequestHandler rh = new RequestHandler();
String s = rh.sendGetRequestParam(Config.URL_GET_USER,user);
return s;
i send session value into intend and pass here. but the info is not showing. update part is doing nice, just the retrieve problem. do you have any idea how to do it?

Reply

Chef Dennis says
November 27, 2015 at 11:19 am

Hi,

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host

If you are getting a blank toast that means your device cannot access your host.

you can also use a live web hosting server. use hostinger.in to get a free hosting

Reply

Chef Dennis says
December 1, 2015 at 2:08 pm

Hi Belal thanks very much I have been able to access it. Now everything is working fine.
Now to my real project, how do i get this to work when the database is on my collegue's
server(mssql server). I have been able to run a php script that can communicate with his
server and even do insertion, now i want my android app to do the insertion. tnx very
much..

Reply

Chef Dennis says
December 1, 2015 at 4:41 pm

Hello it is me again just want to let u know i have been able to accomplish it. I just
used an emulator which is on the same network. Thanks a lot. Hoping to get more
tutorials from you.

Reply

Veer says

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please help me sir..

Reply

Aviral Bharadwaj says
December 9, 2015 at 5:34 am

The project is crashing at start.

What may be the common problems related to crashing in this [https://www.simplifiedcoding.net /android-mysql-tutorial-to-perform-basic-crud-operation/?]

Kindly help me out I am near to my deadline.

Reply

Chef Dennis says
December 10, 2015 at 1:56 am

Hi, please i have been following this tuts and everything works fine. But i just want retrieve only one record into a text view not a listview. My php script is working fine but when i want to display on the android that particular textview is still empty

Reply

siid says
December 16, 2015 at 5:26 am

hi bilal …my all code works fine but when i insert or add employee it cannot save in wamp server ,,,,plz tell me about this issue

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wade says
December 19, 2015 at 11:30 am

HI Bilal , how can I add this code : mysql_query("SET NAMES utf8;", $db_link); in dbConnect.php ?

Reply

Belal Khan says
December 19, 2015 at 12:19 pm

It is deprecated you should not use this

Reply

wade says
December 19, 2015 at 5:39 pm

But I'm insert chinese , display garbled on MySQL….

like this è‹¦å‘³é¡è«è«

Reply

Leave a Reply

Your email address will not be published. Required fields are marked *

Comment

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