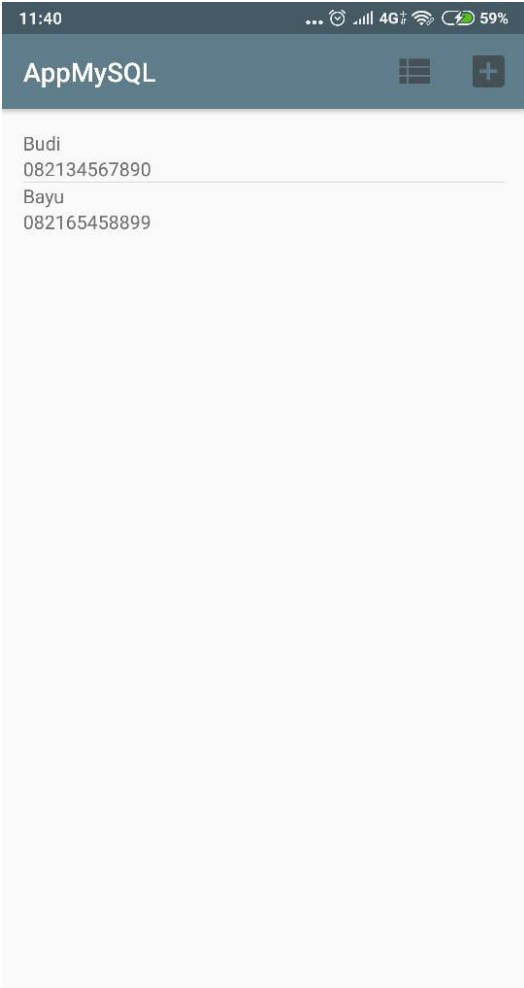
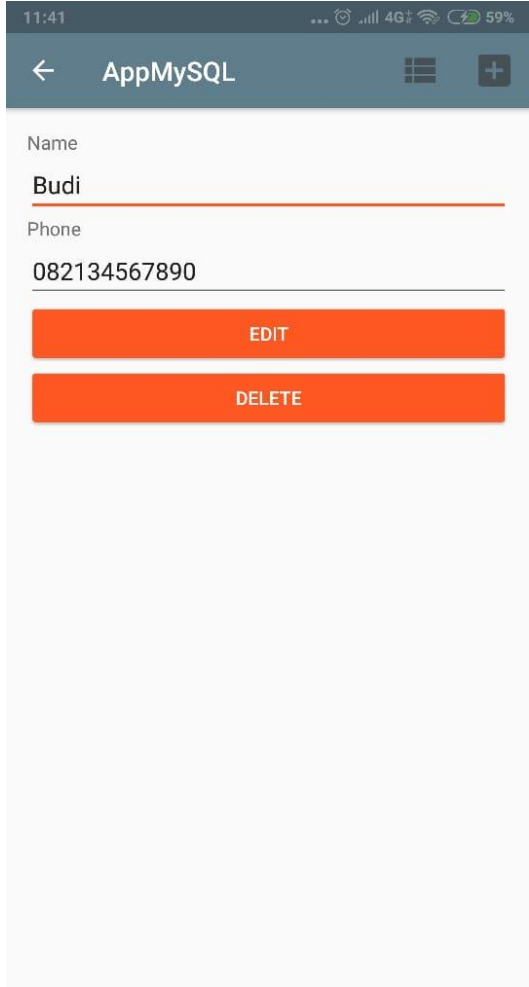
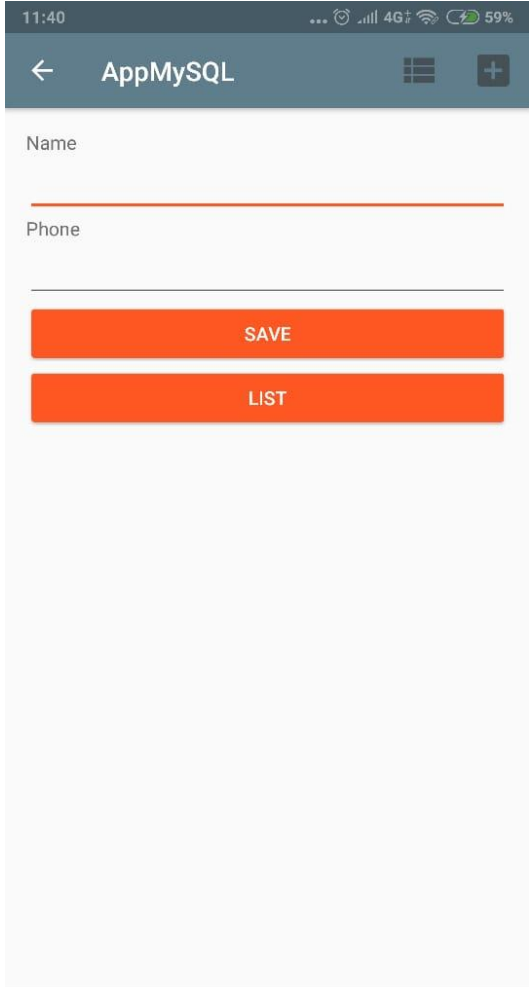


Praktikum 7 – MySQL





Database : */*gunakan nama kelas*/*

Table : contact

Column	Type
id	Int, Auto Increment
name	Varchar (35)
number	Varchar (15)

nama_kelas/model/koneksi.php

```
<?php
define('HOST','localhost');
define('USER','root');
define('PASS','');
define('DB','nama_database'); //Sesuaikan dengan nama database

$con = mysqli_connect(HOST,USER,PASS,DB) or die('Unable to Connect');
?>
```

nama_kelas/model/tambah.php

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

    $sql = "INSERT INTO contact (name,number) VALUES ('$name','$number')";
    require_once('koneksi.php');

    if(mysqli_query($con,$sql)){
        echo 'Berhasil Menambahkan Contact';
    }else{
        echo 'Gagal Menambahkan Contact';
    }

    mysqli_close($con);
}
?>
```

nama_kelas/model/tampilSemua.php

```
<?php
require_once('koneksi.php');

$sql = "SELECT * FROM contact";
$r = mysqli_query($con,$sql);
$result = array();

while($row = mysqli_fetch_array($r)){
    array_push($result,array(
        "id"=>$row['id'],
        "name"=>$row['name'],
        "number"=>$row['number']
    ));
}

//Menampilkan Array dalam Format JSON
echo json_encode(array('result'=>$result));

mysqli_close($con);
?>
```

nama_kelas/model/tampil.php

```
<?php
require_once('koneksi.php');
$id = $_GET['id'];
$sql = "SELECT * FROM contact WHERE id=$id";
$r = mysqli_query($con,$sql);
$result = array();
$row = mysqli_fetch_array($r);

array_push($result,array(
    "id"=>$row['id'],
    "name"=>$row['name'],
    "number"=>$row['number']
));

echo json_encode(array('result'=>$result));

mysqli_close($con);
?>
```

nama_kelas/model/ubah.php

```
<?php
if($_SERVER['REQUEST_METHOD']=='POST'){
    $id = $_POST['id'];
    $name = $_POST['name'];
    $number = $_POST['number'];

    require_once('koneksi.php');

    $sql = "UPDATE contact SET name = '$name', number = '$number' WHERE id = $id;";

    if(mysqli_query($con,$sql)){
        echo 'Berhasil Mengubah Contact';
    }else{
        echo 'Gagal Mengubah Contact';
    }

    mysqli_close($con);
}
?>
```

nama_kelas/model/hapus.php

```
<?php
require_once('koneksi.php');
$id = $_GET['id'];
$sql = "DELETE FROM contact WHERE id=$id;";

if(mysqli_query($con,$sql)){
    echo 'Berhasil Menghapus Contact';
}else{
    echo 'Gagal Menghapus Contact';
}

mysqli_close($con);
?>
```

res/menu/menu_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:tools="http://schemas.android.com/tools"
      xmlns:android="http://schemas.android.com/apk/res/android"
      xmlns:app="http://schemas.android.com/apk/res-auto">
    <item
        android:id="@+id/action_read"
        android:icon="@drawable/ic_input_get"
        android:title="@string/list"
        app:showAsAction="ifRoom" />
    <item
        android:id="@+id/action_create"
        android:icon="@drawable/ic_input_add"
        android:title="@string/add"
        app:showAsAction="ifRoom" />
</menu>
```

res/values/colors.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="colorPrimary">#607D8B</color>
    <color name="colorPrimaryDark">#455A64</color>
    <color name="colorAccent">#FF5722</color>
    <color name="colorSubTitle">#757575</color>
</resources>
```

res/values/styles.xml

```
<resources>

    <!-- Base application theme. -->
    <style name="AppTheme" parent="Base.Theme.AppCompat.Light.DarkActionBar">
        <!-- Customize your theme here. -->
        <item name="colorPrimary">@color/colorPrimary</item>
        <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
        <item name="colorAccent">@color/colorAccent</item>
    </style>

    <style name="ButtonGeneral" parent="@style/Widget.AppCompat.Button.Colored">
    </style>

</resources>
```

res/values/dimens.xml

```
<?xml version="1.0" encoding="utf-8"?>
<resources>
    <dimen name="activity_vertical_margin">16dp</dimen>
    <dimen name="activity_horizontal_margin">16dp</dimen>
</resources>
```

res/values/strings.xml

```
<resources>
    <string name="app_name">AppMySQL</string>
    <string name="list">List</string>
    <string name="add">Add</string>
    <string name="name">Name</string>
    <string name="phone">Phone</string>
    <string name="edit">Edit</string>
    <string name="delete">Delete</string>
    <string name="save">Save</string>
</resources>
```

Konfigurasi.java

```
package com.example.nizar.appmysql;

public class Konfigurasi {

    public static final String URL_ADD =
"http://192.168.43.151/contact/model/tambah.php";
    public static final String URL_GET_ALL =
"http://192.168.43.151/contact/model/tampilSemua.php";
    public static final String URL_GET_CON =
"http://192.168.43.151/contact/model/tampil.php?id=";
    public static final String URL_UPDATE_CON =
"http://192.168.43.151/contact/model/ubah.php";
    public static final String URL_DELETE_CON =
"http://192.168.43.151/contact/model/hapus.php?id=";

    public static final String KEY_CON_ID = "id";
    public static final String KEY_CON_NAME = "name";
    public static final String KEY_CON_NUMBER = "number";

    public static final String TAG_JSON_ARRAY = "result";
    public static final String TAG_ID = "id";
    public static final String TAG_NAME = "name";
    public static final String TAG_NUMBER = "number";

    public static final String CON_ID = "CON_id";
}
}
```

RequestHandler.java

```
package com.example.nizar.appmysql;

import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.InputStreamReader;
import java.io.OutputStream;
import java.io.OutputStreamWriter;
import java.io.UnsupportedEncodingException;
import java.net.HttpURLConnection;
import java.net.URL;
import java.net.URLEncoder;
import java.util.HashMap;
import java.util.Map;

import javax.net.ssl.HttpURLConnection;

public class RequestHandler {
    //Metode Untuk mengirim httpPostRequest
    //Metode ini mengambil 2 Argumen
    //Metode Pertama adalah URL dari Skrip yang digunakan untuk mengirimkan
    permintaan
    //Yang lainnya adalah HashMap dengan nilai pasangan nama yang berisi data yang
    akan dikirim dengan permintaan
    public String sendPostRequest(String requestURL, HashMap<String, String>
postDataParams) {
        //Membuat URL
        URL url;

        //Objek StringBuilder untuk menyimpan pesan diambil dari server
        StringBuilder sb = new StringBuilder();
        try {
            //Inisialisasi URL
            url = new URL(requestURL);

            //Membuat Koneksi HttpURLConnection
            HttpURLConnection conn = (HttpURLConnection) url.openConnection();

            //Konfigurasi koneksi
            conn.setReadTimeout(15000);
            conn.setConnectTimeout(15000);
            conn.setRequestMethod("POST");
            conn.setDoInput(true);
            conn.setDoOutput(true);

            //Membuat Keluaran Stream
            OutputStream os = conn.getOutputStream();

            //Menulis Parameter Untuk Permintaan
            //Kita menggunakan metode getPostDataString yang didefinisikan di bawah
            ini
            BufferedWriter writer = new BufferedWriter(
                new OutputStreamWriter(os, "UTF-8"));
            writer.write(getPostDataString(postDataParams));

            writer.flush();
            writer.close();
            os.close();
            int responseCode = conn.getResponseCode();

            if (responseCode == HttpURLConnection.HTTP_OK) {

                BufferedReader br = new BufferedReader(new
InputStreamReader(conn.getInputStream()));
                sb = new StringBuilder();
                String response;
                //Reading server response
                while ((response = br.readLine()) != null){
```

```

        sb.append(response);
    }
}

} catch (Exception e) {
    e.printStackTrace();
}
return sb.toString();
}

public String sendGetRequest(String requestURL){
    StringBuilder sb =new StringBuilder();
    try {
        URL url = new URL(requestURL);
        HttpURLConnection con = (HttpURLConnection) url.openConnection();
        BufferedReader bufferedReader = new BufferedReader(new
InputStreamReader(con.getInputStream()));

        String s;
        while((s=bufferedReader.readLine())!=null){
            sb.append(s+"\n");
        }
    }catch(Exception e){
    }
    return sb.toString();
}

public String sendGetRequestParam(String requestURL, String id){
    StringBuilder sb =new StringBuilder();
    try {
        URL url = new URL(requestURL+id);
        HttpURLConnection con = (HttpURLConnection) url.openConnection();
        BufferedReader bufferedReader = new BufferedReader(new
InputStreamReader(con.getInputStream()));

        String s;
        while((s=bufferedReader.readLine())!=null){
            sb.append(s+"\n");
        }
    }catch(Exception e){
    }
    return sb.toString();
}

private String getPostDataString(HashMap<String, String> params) throws
UnsupportedEncodingException {
    StringBuilder result = new StringBuilder();
    boolean first = true;
    for (Map.Entry<String, String> entry : params.entrySet()) {
        if (first)
            first = false;
        else
            result.append("&");

        result.append(URLEncoder.encode(entry.getKey(), "UTF-8"));
        result.append("=");
        result.append(URLEncoder.encode(entry.getValue(), "UTF-8"));
    }

    return result.toString();
}
}

```


res/layout/activity_list_view.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView
        android:id="@+id/name"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />

    <TextView
        android:id="@+id/number"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />

</LinearLayout>
```

ListView.java

```
package com.example.nizar.appmysql;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class ListView extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_list_view);
    }
}
```

res/layout/activity_main.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:orientation="vertical"
    android:layout_height="match_parent"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    tools:context=".MainActivity">

    <ListView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/listView" />

</LinearLayout>
```

MainActivity.java

```
package com.example.nizar.apmysql;

import android.app.ProgressDialog;
import android.content.Intent;
import android.os.AsyncTask;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import android.widget.SimpleAdapter;

import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;

import java.util.ArrayList;
import java.util.HashMap;

public class MainActivity extends AppCompatActivity implements
    ListView.OnItemClickListener {

    private ListView listView;

    private String JSON_STRING;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        listView = (ListView) findViewById(R.id.listView);
        listView.setOnItemClickListener(this);
        getJSON();
    }

    private void showContact(){
        JSONObject jsonObject = null;
        ArrayList<HashMap<String,String>> list = new ArrayList<HashMap<String,
String>>();
        try {
            jsonObject = new JSONObject(JSON_STRING);
            JSONArray result = jsonObject.getJSONArray(Konfigurasi.TAG_JSON_ARRAY);
```

```

        for(int i = 0; i<result.length(); i++){
            JSONObject jo = result.getJSONObject(i);
            String id = jo.getString(Konfigurasi.TAG_ID);
            String name = jo.getString(Konfigurasi.TAG_NAME);
            String number = jo.getString(Konfigurasi.TAG_NUMBER);

            HashMap<String,String> contacts = new HashMap<>();
            contacts.put(Konfigurasi.TAG_ID,id);
            contacts.put(Konfigurasi.TAG_NAME,name);
            contacts.put(Konfigurasi.TAG_NUMBER,number);
            list.add(contacts);
        }

    } catch (JSONException e) {
        e.printStackTrace();
    }

    ListAdapter adapter = new SimpleAdapter(
        MainActivity.this, list, R.layout.activity_list_view,
        new String[]{Konfigurasi.TAG_NAME,Konfigurasi.TAG_NUMBER},
        new int[]{R.id.name, R.id.number});

    listView.setAdapter(adapter);
}

private void getJSON(){
    class GetJSON extends AsyncTask<Void,Void,String> {

        ProgressDialog loading;
        @Override
        protected void onPreExecute() {
            super.onPreExecute();
            loading = ProgressDialog.show(MainActivity.this,"Mengambil
Data","Mohon Tunggu...",false,false);
        }

        @Override
        protected void onPostExecute(String s) {
            super.onPostExecute(s);
            loading.dismiss();
            JSON_STRING = s;
            showContact();
        }

        @Override
        protected String doInBackground(Void... params) {
            RequestHandler rh = new RequestHandler();
            String s = rh.sendGetRequest(Konfigurasi.URL_GET_ALL);
            return s;
        }
    }
    GetJSON gj = new GetJSON();
    gj.execute();
}

@Override
public void onItemClick(AdapterView<?> parent, View view, int position, long
id) {
    //Intent intent = new Intent(this, DetailActivity.class);
    //HashMap<String,String> map = (HashMap)parent.getItemAtPosition(position);
    //String empId = map.get(Konfigurasi.TAG_ID).toString();
    //intent.putExtra(Konfigurasi.CON_ID,empId);
    //startActivity(intent);
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {

```

```
        getMenuInflater().inflate(R.menu.menu_main, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        int id = item.getItemId();
        if (id == R.id.action_read) {
            Intent iread = new Intent(this, MainActivity.class);
            startActivity(iread);
            return true;
        } else if (id == R.id.action_create) {
            //Intent icreate = new Intent(this, CreateActivity.class);
            //startActivity(icreate);
            //return true;
        }
        return super.onOptionsItemSelected(item);
    }
}
```

AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.nizar.appmysql">

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

    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
        <activity android:name=".MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name=".ListView" />
    </application>

</manifest>
```