

Welcome to Android Studio by Sasmitoh Rahmad Riady, S.Kom & Wahyu Hadikristanto, S.kom., M.Kom

Android studio and Upload File to server

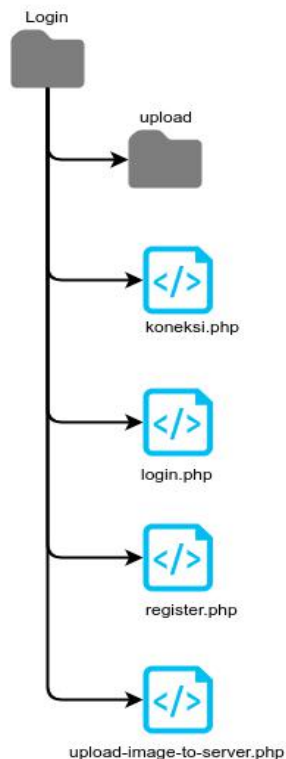
1. Tambah Tabel di Database Login

Buat tabel yaitu **imageupload** dan memiliki atribut **uid,image_path,nim,nohp,tanggal** berikut adalah gambar dari tabel users berikut tipe data.

imageupload		
PK	<u>uid</u>	Int (11) Auto INCREMENT
	image_path	varchar (50)
	image_name	varchar (50)
	nim	varchar (50)
	nohp	varchar (50)
	tanggal	varchar (50)

2. Membuat File PHP upload

Buat file php dan directori baru, berinama directori tersebut dengan nama **upload** dan file php dengan nama **upload-image-to-server.php** di struktur folder project login berikut adalah strukturnya



upload-image-to-server.php

```
<?php
include 'koneksi.php';

if($_SERVER['REQUEST_METHOD'] == 'POST')
{
    $DefaultId = 0;

    $ImageData = $_POST['image_data'];
    $ImageName = $_POST['image_tag'];
    $Nim = $_POST['nim'];
    $NoHp = $_POST['nohp'];
    $Tanggal = $_POST['tanggal'];
    $ImagePath = "upload/$ImageName.jpg";
    $ServerURL = "$ImagePath";

    $InsertSQL = "INSERT INTO imageupload (image_path,image_name,nim,nohp,tanggal)
values('$ServerURL','$ImageName','$Nim','$NoHp','$Tanggal')";

    if(mysqli_query($con, $InsertSQL)){
        file_put_contents($ImagePath,base64_decode($ImageData));
        echo "Your Image Has Been Uploaded.";
    }
    mysqli_close($con);
}
else{
    echo "Please Try Again";
}
?>
```

3. Modifikasi project login®ister di android studio

- **app/res/activity_main.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="10dp"
    android:paddingLeft="5dp"
    android:paddingRight="5dp"
    android:paddingTop="10dp"
    tools:context=".MainActivity">

    <ScrollView
        android:layout_width="fill_parent"
        android:layout_height="wrap_content">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_alignParentTop="true"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="10dp"
            android:orientation="vertical">

            <TextView
                android:id="@+id/txt_username"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="right"
                android:layout_marginRight="15dp"
                android:text="Username" />

            <Button
                android:id="@+id/btn_logout"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_gravity="right"
                android:layout_marginTop="5dp"
                android:background="#00555555"
                android:text="Logout"
                android:textStyle="bold" />

        </LinearLayout>

    </ScrollView>

</RelativeLayout>
```

```

<LinearLayout
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:id="@+id/linearLayout">

    <TextView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Silakan Isi Biodata Diri"
        android:textSize="26dp"
        android:textColor="#000"
        android:fontFamily="sans-serif"
        android:paddingBottom="1dp"/>

    <RelativeLayout
        android:layout_width="fill_parent"
        android:layout_height="1dp"
        android:background="#000"
        android:layout_marginBottom="10dp">
    </RelativeLayout>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Nama"
        android:layout_marginTop="10dp"/>

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/imageName"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Nim"
        android:layout_marginTop="10dp"/>

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/nim"/>

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Tanggal Lahir"
        android:layout_marginTop="10dp"/>

```

```

<Button
    android:id="@+id/bt_datepicker"
    android:text="Show Calender"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content" />

<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/tgl_result"/>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="No. Handphone"
    android:layout_marginTop="10dp"/>

<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/nohp"/>
<Button
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="Select Image"
    android:id="@+id/buttonSelect"
    android:background="#FFF"
    android:layout_margin="10dp"/>

<ImageView
    android:layout_width="fill_parent"
    android:layout_height="200dp"
    android:id="@+id/imageView"/>
<RelativeLayout
    android:layout_width="fill_parent"
    android:layout_height="1dp"
    android:background="#000"
    android:layout_marginBottom="20dp"
    android:layout_marginTop="10dp">
</RelativeLayout>

<LinearLayout
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:gravity="center"
    android:layout_marginBottom="10dp"
    android:layout_marginTop="10dp">

```

```
        <Button
            android:layout_width="200dp"
            android:layout_height="wrap_content"
            android:text="Upload >>"
            android:textColor="#FFF"
            android:background="@color/green"
            android:id="@+id/buttonUpload"
            android:visibility="gone"
            android:layout_marginBottom="20dp"
            android:layout_marginTop="10dp" />

    </LinearLayout>

</LinearLayout>
</LinearLayout>
</ScrollView>
</RelativeLayout>
```

19:30 ... 1,36K/d 4G

Ngoding Study Club

USERNAME : sasmitoh

LOGOUT

Silakan Isi Biodata Diri

Nama
sasmitoh

Nim
31145866

Tanggal Lahir
SHOW CALENDER
04-07-2018

No. Handphone
2.96898

SELECT IMAGE

- **app/java/id.ac.pelitabangsa.mylogin/MainActivity.java**

```
package id.ac.pelitabangsa.cek_sas;

import android.content.Context;
import android.content.Intent;
import android.content.SharedPreferences;
import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.TextView;
import android.app.Activity;
import android.app.ProgressDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.content.pm.PackageManager;
import android.graphics.Bitmap;
import android.net.Uri;
import android.os.AsyncTask;
import android.os.Build;
import android.provider.MediaStore;
```



```

import android.support.v4.content.ContextCompat;
import android.support.v7.app.AlertDialog;
import android.util.Base64;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.Toast;
import java.io.BufferedReader;
import java.io.BufferedWriter;
import java.io.ByteArrayOutputStream;
import java.io.IOException;
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 android.widget.DatePicker;
import javax.net.ssl.HttpURLConnection;

import android.app.DatePickerDialog;
import android.support.annotation.Nullable;

import android.widget.DatePicker;

import java.text.SimpleDateFormat;
import java.util.Calendar;
import java.util.Locale;

public class MainActivity extends AppCompatActivity {

    Button btn_logout, GetImageFromGalleryButton,
    UploadImageOnServerButton, bt_datepicker;
    ImageView ShowSelectedImage;
    TextView txt_username;
    EditText imageName,nim,nohp,tgl_result ;
    String username;
    SharedPreferences sharedPreferences;

    private DatePickerDialog datePickerDialog;
    private SimpleDateFormat dateFormatter;

    Bitmap FixBitmap;

    String ImageTag = "image_tag" ;

```

```

String ImageName = "image_data" ;

String Nim = "nim" ;

String NoHp = "nohp";

String Tanggal = "tanggal";

ProgressDialog progressDialog ;

ByteArrayOutputStream byteArrayOutputStream ;

byte[] byteArray ;

String ConvertImage ;

String GetImageNameFromEditText;

String GetNimFromEditText;

String GetNoHpFromEditText;

String GetTanggalEditText;

URLConnection httpURLConnection ;

URL url;

OutputStream outputStream;

BufferedWriter bufferedWriter ;

int RC ;

BufferedReader bufferedReader ;

StringBuilder stringBuilder;

boolean check = true;

private int GALLERY = 1, CAMERA = 2;

public static final String TAG_USERNAME = "username";

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

    GetImageFromGalleryButton =

```

```

(Button)findViewById(R.id.buttonSelect);

        UploadImageOnServerButton =
(Button)findViewById(R.id.buttonUpload);

        ShowSelectedImage =
(ImageView)findViewById(R.id.imageView);

        imageName=(EditText)findViewById(R.id.imageName);

        byteArrayOutputStream = new ByteArrayOutputStream();

        nim=(EditText)findViewById(R.id.nim);

        nohp=(EditText)findViewById(R.id.nohp);

        dateFormatter = new SimpleDateFormat("dd-MM-yyyy",
Locale.US);

        tgl_result=(EditText)findViewById(R.id.tgl_result);

        bt_datepicker=(Button)findViewById(R.id.bt_datepicker);

        txt_username = (TextView)
findViewById(R.id.txt_username);
        btn_logout = (Button) findViewById(R.id.btn_logout);

        sharedPreferences =
getSharedPreferences(Login.my_shared_preferences,
Context.MODE_PRIVATE);

        username = getIntent().getStringExtra(TAG_USERNAME);

        txt_username.setText("USERNAME : " + username);

        GetImageFromGalleryButton.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View view) {

                showPictureDialog();

            }
        });

        bt_datepicker.setOnClickListener(new
View.OnClickListener() {
            @Override

```

```

        public void onClick(View view) {
            showDateDialog();
        }
    });

    btn_logout.setOnClickListener(new
View.OnClickListener() {

        @Override
        public void onClick(View v) {
            // TODO Auto-generated method stub
            // update login session ke FALSE dan
            // mengosongkan nilai id dan username
            SharedPreferences.Editor editor =
            sharedPreferences.edit();
            editor.putBoolean(Login.session_status,
            false);

            editor.putString(TAG_USERNAME, null);
            editor.commit();

            Intent intent = new Intent(MainActivity.this,
            Login.class);
            finish();
            startActivity(intent);
        }
    });

    UploadImageOnServerButton.setOnClickListener(new
View.OnClickListener() {
        @Override
        public void onClick(View view) {

            GetImageNameFromEditText =
            imageName.getText().toString();
            GetNimFromEditText = nim.getText().toString();
            GetNoHpFromEditText =
            nohp.getText().toString();
            GetTanggalEditText =
            tgl_result.getText().toString();

            UploadImageToServer();

        }
    });

    if
(ContextCompat.checkSelfPermission(MainActivity.this,

```

```

android.Manifest.permission.CAMERA) !=
PackageManager.PERMISSION_GRANTED) {
    if (Build.VERSION.SDK_INT >=
Build.VERSION_CODES.M) {
        requestPermissions(new
String[]{android.Manifest.permission.CAMERA},
5);
    }
}

private void showDateDialog(){

    /**
     * Calendar untuk mendapatkan tanggal sekarang
     */
    Calendar newCalendar = Calendar.getInstance();

    /**
     * Initiate DatePicker dialog
     */
    datePickerDialog = new DatePickerDialog(this, new
DatePickerDialog.OnDateSetListener() {

        @Override
        public void onDateSet(DatePicker view, int year,
int monthOfYear, int dayOfMonth) {

            /**
             * Method ini dipanggil saat kita selesai
memilih tanggal di DatePicker
             */

            /**
             * Set Calendar untuk menampung tanggal yang
dipilih
             */
            Calendar newDate = Calendar.getInstance();
            newDate.set(year, monthOfYear, dayOfMonth);

            /**
             * Update TextView dengan tanggal yang kita
pilih
             */

            tgl_result.setText(dateFormatter.format(newDate.getTime()));
        }

    }, newCalendar.get(Calendar.YEAR),
newCalendar.get(Calendar.MONTH),

```

```

newCalendar.get(Calendar.DAY_OF_MONTH));

    /**
     * Tampilkan DatePicker dialog
     */
    datePickerDialog.show();
}

private void showPictureDialog(){
    AlertDialog.Builder pictureDialog = new
AlertDialog.Builder(this);
    pictureDialog.setTitle("Select Action");
    String[] pictureDialogItems = {
        "Camera" };
    pictureDialog.setItems(pictureDialogItems,
        new DialogInterface.OnClickListener() {
            @Override
            public void onClick(DialogInterface
dialog, int which) {
                switch (which) {
                    case 0:
                        takePhotoFromCamera();
                        break;
                }
            }
        });
    pictureDialog.show();
}

private void takePhotoFromCamera() {
    Intent intent = new
Intent(android.provider.MediaStore.ACTION_IMAGE_CAPTURE);
    startActivityForResult(intent, CAMERA);
}

@Override
public void onActivityResult(int requestCode, int
resultCode, Intent data) {

    super.onActivityResult(requestCode, resultCode, data);
    if (resultCode == this.RESULT_CANCELED) {
        return;
    }
    if (requestCode == CAMERA) {
        FixBitmap = (Bitmap) data.getExtras().get("data");
        ShowSelectedImage.setImageBitmap(FixBitmap);

        UploadImageOnServerButton.setVisibility(View.VISIBLE);
        // saveImage(thumbnail);
    }
}

```

```

        //Toast.makeText(ShadiRegistrationPart5.this,
        "Image Saved!", Toast.LENGTH_SHORT).show();
    }
}

    public void UploadImageToServer(){

        FixBitmap.compress(Bitmap.CompressFormat.JPEG, 40,
        byteArrayOutputStream);

        byteArray = byteArrayOutputStream.toByteArray();

        ConvertImage = Base64.encodeToString(byteArray,
        Base64.DEFAULT);

        class AsyncTaskUploadClass extends
        AsyncTask<Void,Void,String> {

            @Override
            protected void onPreExecute() {

                super.onPreExecute();

                progressDialog =
                ProgressDialog.show(MainActivity.this,"Data Dikirim","Please
                Wait",false,false);
            }

            @Override
            protected void onPostExecute(String string1) {

                super.onPostExecute(string1);

                progressDialog.dismiss();

                Toast.makeText(MainActivity.this,string1,Toast.LENGTH_LONG).sh
                ow();

                nim.setText("");
                nohp.setText("");
                imageName.setText("");
                tgl_result.setText("");
                ShowSelectedImage.setImageBitmap(null);

            }

            @Override
            protected String doInBackground(Void... params) {

```

```

        ImageProcessClass imageProcessClass = new
ImageProcessClass();

        HashMap<String,String> HashMapParams = new
HashMap<String,String>();

        HashMapParams.put(ImageTag,
GetImageNameFromEditText);

        HashMapParams.put(Nim, GetNimFromEditText);

        HashMapParams.put(NoHp, GetNoHpFromEditText);

        HashMapParams.put(Tanggal,
GetTanggalEditText);

        HashMapParams.put(ImageName, ConvertImage);

        String FinalData =
imageProcessClass.ImageHttpRequest("http://192.168.43.169/logi
n/upload-image-to-server.php", HashMapParams);

        return FinalData;
    }
}
AsyncTaskUploadClass AsyncTaskUploadClassOBJ = new
AsyncTaskUploadClass();
AsyncTaskUploadClassOBJ.execute();
}

public class ImageProcessClass{

    public String ImageHttpRequest(String
requestURL,HashMap<String, String> PData) {

        StringBuilder stringBuilder = new StringBuilder();

        try {
            url = new URL(requestURL);

            httpURLConnection = (HttpURLConnection)
url.openConnection();

            httpURLConnection.setReadTimeout(20000);

            httpURLConnection.setConnectTimeout(20000);

            httpURLConnection.setRequestMethod("POST");

```



```

        httpURLConnection.setDoInput(true);
        httpURLConnection.setDoOutput(true);

        outputStream =
httpURLConnection.getOutputStream();

        bufferedWriter = new BufferedWriter(
                                new OutputStreamWriter(outputStream,
"UTF-8"));

bufferedWriter.write(bufferedWriterDataFN(PData));

        bufferedWriter.flush();
        bufferedWriter.close();
        outputStream.close();

        RC = httpURLConnection.getResponseCode();
        if (RC == HttpURLConnection.HTTP_OK) {
            bufferedReader = new BufferedReader(new
InputStreamReader(httpURLConnection.getInputStream()));

            stringBuilder = new StringBuilder();

            String RC2;

            while ((RC2 =
bufferedReader.readLine()) != null){

                stringBuilder.append(RC2);
            }

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

    private String bufferedWriterDataFN(HashMap<String,
String> HashMapParams) throws UnsupportedOperationException {

        stringBuilder = new StringBuilder();

```

```

        for (Map.Entry<String, String> KEY :
HashMapParams.entrySet()) {
            if (check)
                check = false;
            else
                stringBuilder.append("&");

stringBuilder.append(URLEncoder.encode(KEY.getKey(), "UTF-
8"));

                stringBuilder.append("=");

stringBuilder.append(URLEncoder.encode(KEY.getValue(), "UTF-
8"));
        }

        return stringBuilder.toString();
    }

    }

    @Override
    public void onRequestPermissionsResult(int requestCode,
String[] permissions, int[] grantResults) {
        super.onRequestPermissionsResult(requestCode,
permissions, grantResults);
        if (requestCode == 5) {
            if (grantResults[0] ==
PackageManager.PERMISSION_GRANTED) {
                // Now user should be able to use camera

            }
            else {

                Toast.makeText(MainActivity.this, "Unable to
use Camera..Please Allow us to use Camera",
Toast.LENGTH_LONG).show();

            }
        }
    }
}

```

- app/manifest/AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest
xmlns:android="http://schemas.android.com/apk/res/android"
    package="id.ac.pelitabangsa.cek_sas">

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

    <application
        android:name=".app.AppController"
        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=".Login">
            <intent-filter>
                <action
android:name="android.intent.action.MAIN" />

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

</manifest>
```

4. Tambah library untuk memanggil kamera

- **app/Gradle Scripts/build.gradle**

```
implementation 'com.android.volley:volley:1.0.0' /*tambahan  
volley library*/
```

berikut pull code

```
apply plugin: 'com.android.application'

android {
    compileSdkVersion 27
    defaultConfig {
        applicationId "id.ac.pelitabangsa.cek_sas"
        minSdkVersion 14
        targetSdkVersion 27
        versionCode 1
        versionName "1.0"
        testInstrumentationRunner
        "android.support.test.runner.AndroidJUnitRunner"
    }
    buildTypes {
        release {
            minifyEnabled false
            proguardFiles getDefaultProguardFile('proguard-  
android.txt'), 'proguard-rules.pro'
        }
    }
}

dependencies {
    implementation fileTree(dir: 'libs', include: ['*.jar'])
    implementation 'com.android.support:appcompat-v7:27.1.1'
    implementation 'com.android.support.constraint:constraint-  
layout:1.1.2'
    testImplementation 'junit:junit:4.12'
    androidTestImplementation
    'com.android.support.test:runner:1.0.2'
    implementation 'com.android.volley:volley:1.0.0' /*tambahan  
volley library*/
    androidTestImplementation
    'com.android.support.test.espresso:espresso-core:3.0.2'
```

```
}
```