

### **BUKU KERJA PRAKTEK MAHASISWA**

Matakuliah : Aplikasi Mobile  
Minggu Ke : 10  
Waktu :  
Tema : Api Volley  
Dosen pengampu : Faisal Lutfi Afriansyah, S.Kom., M.T

#### **Dasar Teori**

Volley adalah library HTTP yang mempermudah dan, yang terpenting, mempercepat networking untuk aplikasi Android.

Volley menawarkan manfaat-manfaat berikut:

- Penjadwalan otomatis permintaan jaringan.
- Beberapa koneksi jaringan serentak.
- Caching respons disk dan memori transparan dengan koherensi cache HTTP standar.
- Dukungan untuk pemrioritasan permintaan.
- API permintaan pembatalan. Anda bisa membatalkan satu permintaan, atau menetapkan blok atau cakupan permintaan untuk dibatalkan.
- Kemudahan kustomisasi, misalnya, untuk mencoba ulang dan backoff.
- Pemesanan kuat yang memudahkan pengisian UI Anda dengan benar menggunakan data yang diambil secara asinkron dari jaringan.
- Fitur proses debug dan penelusuran.

Volley terintegrasi secara mudah dengan protokol apa pun dan memberi performa terbaik dengan dukungan untuk string raw, gambar, dan JSON.

#### **Alat dan Bahan**

- a. Smart Phone
- b. Komputer/Laptop

## Kegiatan Praktikum

1. Buat database di PHPMyAdmin
2. Buat tabel baru di database dengan nama **db\_ci** dengan 2 kolom nama dan nim

Nim adalah primay key.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	<b>nim</b>	varchar(250)	latin1_swedish_ci		No	None			Change  Drop  More
<input type="checkbox"/> 2	<b>nama</b>	varchar(250)	latin1_swedish_ci		No	None			Change  Drop  More

▼ app

▼ manifests

AndroidManifest.xml

3. Tambahhkan internet permission dan access network di **AndroidManifest.xml** file.

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

4. Tambahkan library pada **build.gradle(Module:app)** file

```
dependencies {

    implementation 'androidx.appcompat:appcompat:1.2.0'
    implementation 'com.google.android.material:material:1.3.0'
    implementation 'androidx.constraintlayout:constraintlayout:2.0.4'
    testImplementation 'junit:junit:4.+'
    androidTestImplementation 'androidx.test.ext:junit:1.1.2'
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.3.0'
    implementation 'com.android.volley:volley:1.1.0'
}
```

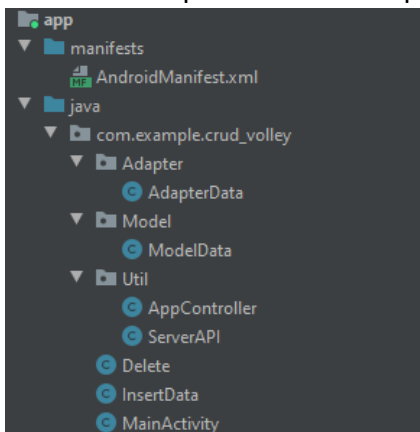
5. Tambahkan 3 package yang terdiri dari file .java yaitu :

- Adapter
  - AdapterData
- Model
  - ModelData
- Util
  - ApplicationController
  - ServerAPI

Dan tambahkan 3 file .java di dalam package utama:

- Delete
- InsertData

Maka akan seperti berikut tampilannya:



5. File AdapterData.java berisi sebagai berikut :

```
package com.example.crud_volley.Adapter;

import android.content.Context;
import android.content.Intent;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import androidx.recyclerview.widget.RecyclerView;

import com.example.crud_volley.InsertData;
import com.example.crud_volley.Model.ModelData;
import com.example.crud_volley.R;

import java.util.List;

public class AdapterData extends RecyclerView.Adapter<AdapterData.ViewHolder> {
    private List<ModelData> mItems ;
    private Context context;

    public AdapterData (Context context, List<ModelData> items)
    {
        this.mItems = items;
        this.context = context;
    }

    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
        View layout = LayoutInflater.from(parent.getContext()).inflate(R.layout.layout_row,parent,
            attachToRoot: false);
        ViewHolder holderData = new ViewHolder(layout);
        return holderData;
    }

    @Override
    public void onBindViewHolder(ViewHolder holder, int position) {
        ModelData md = mItems.get(position);
        holder.tvusername.setText(md.getUsername());
        holder.tvgrup.setText(md.getGrup());
        holder.tvnama.setText(md.getNama());
        holder.tvpassword.setText(md.getPassword());
        holder.md = md;
    }

    @Override
    public int getItemCount() { return mItems.size(); }
```

```

class HolderData extends RecyclerView.ViewHolder
{
    TextView tvusername, tvgrup, tvnama, tvpassword;
    ModelData md;
    public HolderData (View view)
    {
        super(view);
        tvusername = (TextView) view.findViewById(R.id.username);
        tvgrup = (TextView) view.findViewById(R.id.grup);
        tvnama = (TextView) view.findViewById(R.id.nama);
        tvpassword = (TextView) view.findViewById(R.id.password);
        view.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent update = new Intent(context, InsertData.class);
                update.putExtra( name: "update", value: 1);
                update.putExtra( name: "username", md.getUsername());
                update.putExtra( name: "grup", md.getGrup());
                update.putExtra( name: "nama", md.getNama());
                update.putExtra( name: "password", md.getPassword());

                context.startActivity(update);
            }
        });
    }
}

```

6. File ModelData.java berisi sebagai berikut :

```
package com.example.crud_volley.Model;

public class ModelData {String username, grup, nama, password;

    public ModelData(){}

    public ModelData(String username, String grup, String nama, String password) {
        this.username = username;
        this.grup = grup;
        this.nama = nama;
        this.password = password;
    }

    public String getPassword() { return password; }

    public void setPassword(String password) { this.password = password; }

    public String getNama() { return nama; }

    public void setNama(String nama) { this.nama = nama; }

    public String getUsername() { return username; }

    public void setUsername(String username) { this.username = username; }

    public String getGrup() { return grup; }

    public void setGrup(String grup) { this.grup = grup; }
}
```

7. File ApplicationController.java berisi sebagai berikut :

```
package com.example.crud_volley.Util;

import android.app.Application;
import android.text.TextUtils;

import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.toolbox.Volley;

public class ApplicationController extends Application {
    private static final String TAG = ApplicationController.class.getSimpleName();
    private static ApplicationController instance ;
    RequestQueue mRequestQueue;
    @Override
    public void onCreate() {
        super.onCreate();
        instance = this;
    }

    public static synchronized ApplicationController getInstance() { return instance; }

    private RequestQueue getRequestQueue()
    {
        if(mRequestQueue == null)
        {
            mRequestQueue = Volley.newRequestQueue(getApplicationContext());
        }
        return mRequestQueue;
    }

    public <T> void addToRequestQueue(Request<T> req, String tag)
    {
        req.setTag(TextUtils.isEmpty(tag) ? TAG : tag);
        getRequestQueue().add(req);
    }

    public <T> void addToRequestQueue (Request<T> req)
    {
        req.setTag(TAG);
        getRequestQueue().add(req);
    }

    public void cancelAllRequest(Object req)
    {
        if (mRequestQueue != null)
        {
            mRequestQueue.cancelAll(req);
        }
    }
}
```

8. File ServerAPI.java berisi sebagai berikut :

```
package com.example.crud_volley.Util;

public class ServerAPI {
    public static final String URL_DATA = "http://192.168.1.4/crud/Mahasiswa/Api";
    public static final String URL_INSERT = "http://192.168.1.4/crud/Mahasiswa/ApiInsert";
    public static final String URL_DELETE = "http://192.168.1.4/crud/Mahasiswa/ApiDelete";
    public static final String URL_UPDATE = "http://192.168.1.4/crud/Mahasiswa/ApiUpdate";
}
```

Perhatian : Untuk Url diisikan sesuai dengan alamat ip computer masing-masing, untuk cek ip.

9. Jalankan Command Prompt (CMD)

10. Ketikkan ipconfig, maka akan muncul seperti berikut

```
Wireless LAN adapter Local Area Connection* 1:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Local Area Connection* 2:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . :
    Link-local IPv6 Address . . . . . : fe80::94be:c14f:759:b529%9
    IPv4 Address. . . . . : 192.168.1.4
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : fe80::1%9
                                192.168.1.1

Ethernet adapter Bluetooth Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . :
```

11. File Delete.java berisi sebagai berikut :

```
package com.example.crud_volley;

import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.android.volley.AuthFailureError;
import com.android.volley.Request;
```



```

import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.example.crud_volley.Util.AppController;
import com.example.crud_volley.Util.ServerAPI;

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

import java.util.HashMap;
import java.util.Map;

public class Delete extends AppCompatActivity {
    EditText deleteID ;
    Button btnDelete;
    ProgressDialog pd;

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

        deleteID = (EditText) findViewById(R.id.username_param);
        btnDelete = (Button) findViewById(R.id.btn_delete);
        pd = new ProgressDialog(Delete.this);

        btnDelete.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                deleteData();
            }
        });
    }

    private void deleteData()
    {
        pd.setMessage("Delete Data ...");
        pd.setCancelable(false);
        pd.show();

        StringRequest delReq = new StringRequest(Request.Method.POST,
ServerAPI.URL_DELETE,

```

```

        new Response.Listener<String>() {
            @Override
            public void onResponse(String response) {
                pd.cancel();
                Log.d("volley", "response : " + response.toString());
                try {
                    JSONObject res = new JSONObject(response);
                    Toast.makeText(Delete.this, "pesan : " + res.getString("message"),
Toast.LENGTH_SHORT).show();

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

                startActivity(new Intent(Delete.this, MainActivity.class));
            }
        },
        new Response.ErrorListener() {
            @Override
            public void onErrorResponse(VolleyError error) {
                pd.cancel();
                Log.d("volley", "error : " + error.getMessage());
                Toast.makeText(Delete.this, "pesan : gagal menghapus data",
Toast.LENGTH_SHORT).show();
            }
        }
    ){
        @Override
        protected Map<String, String> getParams() throws AuthFailureError {
            Map<String, String> map = new HashMap<>();
            map.put("username", deleteID.getText().toString());
            return map;
        }
    };

    ApplicationController.getInstance().addToRequestQueue(delReq);
}
}

```

12. File InsertData.java berisi sebagai berikut :

```

package com.example.crud_volley;

import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;

```

```
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

import androidx.appcompat.app.AppCompatActivity;

import com.android.volley.AuthFailureError;
import com.android.volley.Request;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.StringRequest;
import com.example.crud_volley.Util.AppController;
import com.example.crud_volley.Util.ServerAPI;

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

import java.util.HashMap;
import java.util.Map;

public class InsertData extends AppCompatActivity {
    EditText username, grup, nama, password;
    Button btnbatal, btnsimpan;
    ProgressDialog pd;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_insert_data);

        /*get data from intent*/
        Intent data = getIntent();
        final int update = data.getIntExtra("update", 0);
        String intent_username = data.getStringExtra("username");
        String intent_grup = data.getStringExtra("grup");
        String intent_nama = data.getStringExtra("nama");
        String intent_password = data.getStringExtra("password");
        /*end get data from intent*/

        username = (EditText) findViewById(R.id.inp_username);
        grup = (EditText) findViewById(R.id.inp_grup);
        nama = (EditText) findViewById(R.id.inp_nama);
        password = (EditText) findViewById(R.id.inp_password);
        btnbatal = (Button) findViewById(R.id.btn_cancel);
    }
}
```

```

btnsimpan = (Button) findViewById(R.id.btn_simpan);
pd = new ProgressDialog(InsertData.this);

/*kondisi update / insert*/
if(update == 1)
{
    btnsimpan.setText("Update Data");
    username.setText(intent_username);
    username.setVisibility(View.GONE);
    grup.setText(intent_grup);
    nama.setText(intent_nama);
    password.setText(intent_password);

}

btnsimpan.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        if(update == 1)
        {
            Update_data();
        }else {
            simpanData();
        }
    }
});

btnbatal.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent main = new Intent(InsertData.this,MainActivity.class);
        startActivity(main);
    }
});
}

private void Update_data()
{
    pd.setMessage("Update Data");
    pd.setCancelable(false);
    pd.show();

    StringRequest updateReq = new StringRequest(Request.Method.POST,

```

```

ServerAPI.URL_UPDATE,
    new Response.Listener<String>() {
        @Override
        public void onResponse(String response) {
            pd.cancel();
            try {
                JSONObject res = new JSONObject(response);
                Toast.makeText(InsertData.this, "pesan : "+ res.getString("message") ,
Toast.LENGTH_SHORT).show();
            } catch (JSONException e) {
                e.printStackTrace();
            }

            startActivity( new Intent(InsertData.this,MainActivity.class));
        }
    },
    new Response.ErrorListener() {
        @Override
        public void onErrorResponse(VolleyError error) {
            pd.cancel();
            Toast.makeText(InsertData.this, "pesan : Gagal Insert Data",
Toast.LENGTH_SHORT).show();
        }
    }
){
    @Override
    protected Map<String, String> getParams() throws AuthFailureError {
        Map<String,String> map = new HashMap<>();
        map.put("username",username.getText().toString());
        map.put("grup",grup.getText().toString());
        map.put("nama",nama.getText().toString());
        map.put("password",password.getText().toString());

        return map;
    }
};

AppController.getInstance().addToRequestQueue(updateReq);
}

private void simpanData()
{

```

```

        pd.setMessage("Menyimpan Data");
        pd.setCancelable(false);
        pd.show();

        StringRequest sendData = new StringRequest(Request.Method.POST,
ServerAPI.URL_INSERT,
        new Response.Listener<String>() {
            @Override
            public void onResponse(String response) {
                pd.cancel();
                try {
                    JSONObject res = new JSONObject(response);
                    Toast.makeText(InsertData.this, "pesan : "+ res.getString("message") ,
Toast.LENGTH_SHORT).show();
                } catch (JSONException e) {
                    e.printStackTrace();
                }

                startActivity( new Intent(InsertData.this,MainActivity.class));
            }
        },
        new Response.ErrorListener() {
            @Override
            public void onErrorResponse(VolleyError error) {
                pd.cancel();
                Toast.makeText(InsertData.this, "pesan : Gagal Insert Data",
Toast.LENGTH_SHORT).show();
            }
        }
    ){
        @Override
        protected Map<String, String> getParams() throws AuthFailureError {
            Map<String,String> map = new HashMap<>();
            map.put("username",username.getText().toString());
            map.put("grup",grup.getText().toString());
            map.put("nama",nama.getText().toString());
            map.put("password",password.getText().toString());

            return map;
        }
    };

    AppController.getInstance().addToRequestQueue(sendData);
}
}

```

13. Untuk XML ada 3 penambahan yang dilakukan yaitu :  
• activity\_delete

- activity\_insert\_data
- layout\_row

14. File activity\_delete.xml berisi sebagai berikut :

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/activity_delete"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:paddingBottom="16dp"
    android:orientation="vertical"
    android:paddingLeft="16dp"
    android:paddingRight="16dp"
    android:paddingTop="16dp"
    tools:context="com.example.crud_volley.Delete">

    <EditText
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="username"
        android:id="@+id/username_param"/>

    <Button
        android:text="Delete"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/btn_delete"/>
</LinearLayout>
```

username

DELETE

username\_program

DELETE



15. File activity\_insert\_data.xml berisi sebagai berikut :

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="10dp">
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/tilusername">
        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="Username"
            android:id="@+id/inp_username"/>
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/tilnama">
        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="nama"
            android:id="@+id/inp_nama"/>
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/tilpassword">
        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="password"
            android:id="@+id/inp_password"/>
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/tilgrup">
        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:hint="grup"
            android:id="@+id/inp_grup"/>
    </com.google.android.material.textfield.TextInputLayout>
</LinearLayout>
```

```

<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_marginTop="10dp"
    android:orientation="horizontal">
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Batal"
        android:id="@+id/btn_cancel"/>
    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Simpan"
        android:id="@+id/btn_simpan"/>
</LinearLayout>
</LinearLayout>

```

The image displays two side-by-side visual representations of an Android login form, likely generated from the provided XML code.

**Left View (Light Gray Theme):**

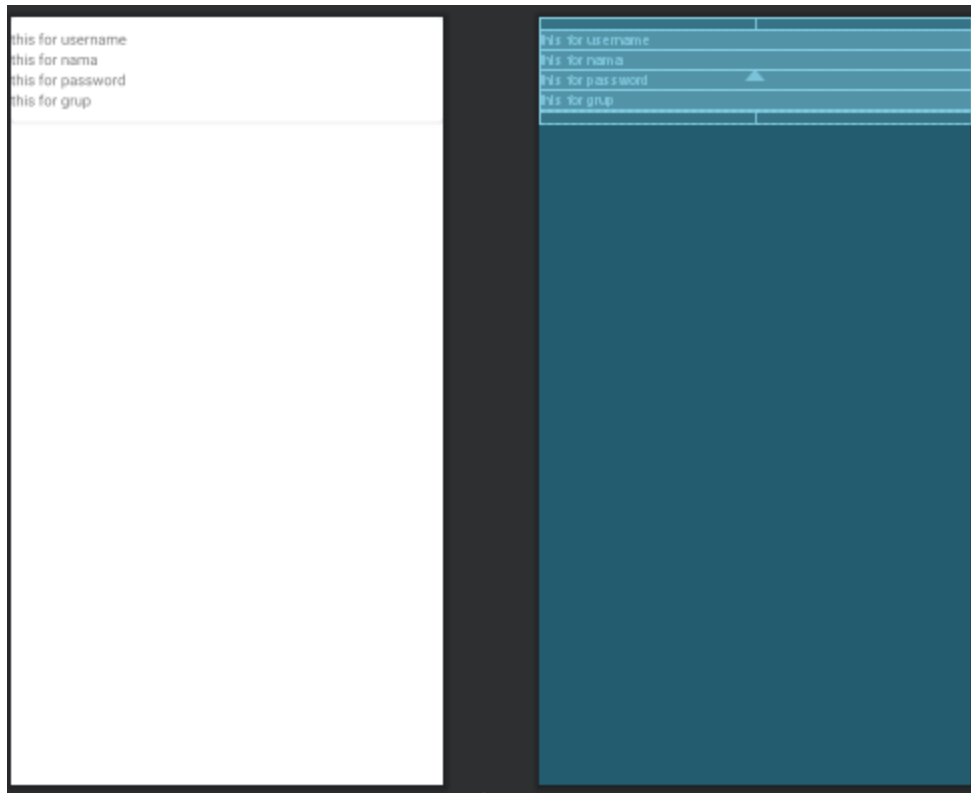
- Four text input fields stacked vertically, labeled: Username, nama, password, and grup.
- Two buttons at the bottom: BATAL (Cancel) and SIMPAN (Save).

**Right View (Teal Theme):**

- Four text input fields stacked vertically, labeled: Inp\_username, Inp\_nama, Inp\_password, and Inp\_group.
- Two buttons at the bottom: BATAL (Cancel) and SIMPAN (Save).

16. File layout\_row.xml berisi sebagai berikut :

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    app:cardElevation="3dp"
    app:cardCornerRadius="5dp"
    android:layout_marginBottom="8dp">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="100dp">
        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_centerInParent="true">
            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="this for username"
                android:id="@+id/username"/>
            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="this for nama"
                android:layout_below="@id/username"
                android:id="@+id/nama"/>
            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="this for password"
                android:layout_below="@id/nama"
                android:id="@+id/password"/>
            <TextView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="this for grup"
                android:layout_below="@id/password"
                android:id="@+id/grup"/>
        </RelativeLayout>
    </RelativeLayout>
</androidx.cardview.widget.CardView>
```



17. Sedangkan untuk MainActivity.java, activity\_main.xml dan AndroidManifest.xml sebagai berikut :

a) MainActivity.java

```
package com.example.crud_volley;

import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import android.app.ProgressDialog;
import android.content.Intent;
import android.os.Bundle;
import android.util.Log;
import android.view.View;
import android.widget.Button;

import com.android.volley.Request;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import com.android.volley.toolbox.JsonArrayRequest;
import com.example.crud_volley.Adapter.AdapterData;
import com.example.crud_volley.Model.ModelData;
```

```
import com.example.crud_volley.Util.AppController;
import com.example.crud_volley.Util.ServerAPI;

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

import java.util.ArrayList;
import java.util.List;

public class MainActivity extends AppCompatActivity {
    RecyclerView mRecyclerview;
    RecyclerView.Adapter mAdapter;
    RecyclerView.LayoutManager mManager;
    List<ModelData> mItems;
    Button btnInsert, btnDelete;
    ProgressDialog pd;

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

        mRecyclerview = (RecyclerView) findViewById(R.id.recyclerviewTemp);
        btnInsert = (Button) findViewById(R.id.btn_insert);
        btnDelete = (Button) findViewById(R.id.btn_delete);
        pd = new ProgressDialog(MainActivity.this);
        mItems = new ArrayList<>();

        loadJson();

        mManager = new
LinearLayoutManager(MainActivity.this,LinearLayoutManager.VERTICAL,false);
        mRecyclerview.setLayoutManager(mManager);
        mAdapter = new AdapterData(MainActivity.this,mItems);
        mRecyclerview.setAdapter(mAdapter);

        btnInsert.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(MainActivity.this,InsertData.class);
                startActivity(intent);
            }
        });
    }
};
```

```

btnDelete.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent hapus = new Intent(MainActivity.this, Delete.class);
        startActivity(hapus);
    }
});
}

private void loadJson()
{
    pd.setMessage("Mengambil Data");
    pd.setCancelable(false);
    pd.show();

//    System.out.println("Mengambil Data");

    JsonRequest reqData = new JsonRequest(Request.Method.POST,
ServerAPI.URL_DATA, null,
    new Response.Listener<JSONArray>() {
        @Override
        public void onResponse(JSONArray response) {
            System.out.println("Length : "+response.length());
            pd.cancel();
            Log.d("volley", "response : " + response.toString());
            for(int i = 0 ; i < response.length(); i++)
            {
                try {
                    JSONObject data = response.getJSONObject(i);
                    ModelData md = new ModelData();
                    md.setUsername(data.getString("username"));
                    md.setGrup(data.getString("grup"));
                    md.setNama(data.getString("nama"));
                    md.setPassword(data.getString("password"));
                    mItems.add(md);
                } catch (JSONException e) {
                    e.printStackTrace();
                }
            }
            System.out.println("Length : "+response.length());
            mAdapter.notifyDataSetChanged();
        }
    }
}

```

```
    },  
    new Response.ErrorListener() {  
        @Override  
        public void onErrorResponse(VolleyError error) {  
            pd.cancel();  
            Log.d("volley", "error : " + error.getMessage());  
        }  
    });  
  
    ApplicationController.getInstance().addToRequestQueue(reqData);  
}  
  
}
```

b) Activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="horizontal">
        <Button
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:text="Insert"
            android:id="@+id/btn_insert"/>
        <Button
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:layout_weight="1"
            android:id="@+id/btn_delete"
            android:text="Delete"/>
    </LinearLayout>
    <androidx.recyclerview.widget.RecyclerView
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/recyclerviewTemp"
        android:layout_margin="5dp"/>
</LinearLayout>
```



c) AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.crud_volley">
    <uses-permission android:name="android.permission.INTERNET"/>
    <uses-permission android:name="android.permission.ACCESS_NETWORK_STATE"/>
    <application
        android:name="com.example.crud_volley.Util.AppController"
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="CRUD_Volley"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:usesCleartextTraffic="true"
        android:theme="@style/Theme.CRUD_Volley">

        <activity android:name="com.example.crud_volley.MainActivity">
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
        <activity android:name="com.example.crud_volley.InsertData"/>
        <activity android:name="com.example.crud_volley.Delete"/>
    </application>
</manifest>
```

## 18. Tampilan hasil

14:09 1.00

**CRUD\_Volley**

**INSERT** **DELETE**

arvita
arvita
123456
admin

---

shintata
shintata
123456
user



14:09 0.41

**CRUD\_Volley**

Username
nama
password
grup

**BATAL** **SIMPAN**

