#### 1. Buatlah java class konfigurasi.java

```
public class konfigurasi{
//Dibawah ini merupakan Pengalamatan dimana Lokasi Skrip CRUD PHP disimpan
//Pada tutorial Kali ini, karena kita membuat localhost maka alamatnya tertuju ke IP komputer
//dimana File PHP tersebut berada
//PENTING! JANGAN LUPA GANTI IP SESUAI DENGAN IP KOMPUTER DIMANA DATA PHP BERADA
    public static final String URL ADD="http://192.168.43.39/pegawai/tambahpgw.php";
   public static final String URL GET ALL = "http://192.168.43.39/pegawai/tampilsemuapgw.php";
   public static final String URL GET EMP = "http://192.168.43.39/pegawai/tampilpgw.php?id=";
   public static final String URL UPDATE EMP = "http://192.168.43.39/pegawai/updatepgw.php?id=";
   public static final String URL DELETE EMP = "http://192.168.43.39/pegawai/hapuspqw.php?id=";
    //Dibawah ini merupakan Kunci yang akan digunakan untuk mengirim permintaan ke Skrip PHP
   public static final String KEY EMP ID = "id";
    public static final String KEY EMP NAMA = "name";
   public static final String KEY EMP POSISI = "position"; //desg itu variabel untuk posisi
    public static final String KEY EMP GAJIH = "salary"; //salary itu variabel untuk gajih
    //JSON Tags
   public static final String TAG JSON ARRAY="result";
   public static final String TAG ID = "id";
   public static final String TAG NAMA = "name";
   public static final String TAG POSISI = "position";//desq
   public static final String TAG GAJIH = "salary";
   //ID karyawan
    //emp itu singkatan dari Employee
   public static final String EMP ID = "emp id";
```

# Buat activity → Main\_Activity

```
import android.app.ProgressDialog;
import android.content.Intent;
import android.os.AsyncTask;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import java.util.HashMap;
import static com.example.evipratiwi.mycrud.konfigurasi.URL_ADD;
```

```
public class MainActivity extends AppCompatActivity implements View.OnClickListener{
    //Dibawah ini merupakan perintah untuk mendefinikan View
   private EditText editTextName;
   private EditText editTextDesg;
   private EditText editTextSal;
   private Button buttonAdd;
   private Button buttonView;
   @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
        //Inisialisasi dari View
        editTextName = (EditText) findViewById(R.id.editTextName);
        editTextDesg = (EditText) findViewById(R.id.editTextDesg);
        editTextSal = (EditText) findViewById(R.id.editTextSalary);
       buttonAdd = (Button) findViewById(R.id.buttonAdd);
       buttonView = (Button) findViewById(R.id.buttonView);
        //Setting listeners to button
       buttonAdd.setOnClickListener(this);
       buttonView.setOnClickListener(this);
    //Dibawah ini merupakan perintah untuk Menambahkan Pegawai (CREATE)
   private void addEmployee(){
        final String name = editTextName.getText().toString().trim();
        final String desg = editTextDesg.getText().toString().trim();
        final String sal = editTextSal.getText().toString().trim();
        class AddEmployee extends AsyncTask<Void, Void, String> {
           ProgressDialog loading;
           @Override
           protected void onPreExecute() {
                super.onPreExecute();
               loading = ProgressDialog.show(MainActivity.this, "Menambahkan...", "Tunggu...", false, false);
           @Override
           protected void onPostExecute(String s) {
                super.onPostExecute(s);
               loading.dismiss();
               Toast.makeText(MainActivity.this,s,Toast.LENGTH LONG).show();
            @Override
```

```
protected String doInBackground(Void... v) {
            HashMap<String, String> params = new HashMap<>();
            params.put(konfigurasi. KEY EMP NAMA, name);
            params.put(konfigurasi.KEY EMP POSISI, desg);
            params.put(konfigurasi.KEY EMP GAJIH, sal);
            RequestHandler rh = new RequestHandler();
            String res = rh.sendPostRequest(konfigurasi.URL ADD, params);
            return res;
   AddEmployee ae = new AddEmployee();
   ae.execute();
@Override
public void onClick(View v) {
   if(v == buttonAdd) {
        addEmployee();
   if(v == buttonView) {
        startActivity(new Intent(this, TampilanSemuaPegawai.class));
```

#### 3. Silahkan masukkan activity\_main.xml

```
android:id="@+id/editTextDesg" />
<TextView
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:text="Gajih" />
<EditText
   android:layout width="match parent"
   android:layout height="wrap content"
   android:id="@+id/editTextSalary" />
<Button
   android:layout width="match parent"
   android:layout height="wrap content"
   android:text="Tambah Pegawai"
   android:id="@+id/buttonAdd" />
<Button
   android:layout width="match parent"
   android:layout height="wrap content"
   android:text="Daftar Pegawai"
   android:id="@+id/buttonView" />
```

### 4. Buat file RequestHandler.java

```
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.io.Writer;
import java.net.HttpURLConnection;
import java.net.URI;
import java.net.URL;
import java.net.URLEncoder;
import java.util.HashMap;
import java.util.Map;
import javax.net.ssl.HttpsURLConnection;
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 {
        //inisiasi 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 == HttpsURLConnection.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();
```

#### 5. Buat Activity → TampilanSemuaPegawai

```
import androidx.appcompat.app.AppCompatActivity;
import android.app.ProgressDialog;
import android.content.Intent;
import android.os.AsyncTask;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.ListAdapter;
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 TampilanSemuaPegawai 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 tampilan semua pegawai);
        listView = (ListView) findViewById(R.id.listView);
        //listView.setOnItemClickListener(this);
        listView.setOnItemClickListener(this);
        getJSON();
   private void showEmployee(){
        JSONObject jsonObject = null;
        ArrayList<HashMap<String, String>> list = new ArrayList<HashMap<String, String>>();
        try {
            jsonObject = new JSONObject(JSON STRING);
            JSONArray result = jsonObject.qetJSONArray(konfigurasi. TAG JSON ARRAY);
            for(int i = 0; i<result.length(); i++) {</pre>
                JSONObject jo = result.getJSONObject(i);
                String id = jo.getString(konfigurasi.TAG ID);
                String name = jo.getString(konfigurasi.TAG NAMA);
                HashMap<String, String> employees = new HashMap<>();
                employees.put(konfigurasi.TAG ID, id);
```

```
employees.put(konfigurasi. TAG NAMA, name);
            list.add(employees);
    } catch (JSONException e) {
        e.printStackTrace();
    ListAdapter adapter = new SimpleAdapter(
            TampilanSemuaPegawai.this, list, R.layout.list item,
            new String[]{konfigurasi.TAG ID, konfigurasi.TAG NAMA},
            new int[]{R.id.id, R.id.name});
    listView.setAdapter(adapter);
private void getJSON(){
    class GetJSON extends AsyncTask<Void, Void, String> {
        ProgressDialog loading;
        @Override
        protected void onPreExecute() {
            super.onPreExecute();
            loading = ProgressDialog.show(TampilanSemuaPegawai.this,"Mengambil Data","Mohon Tunggu...",false,false);
        @Override
        protected void onPostExecute(String s) {
            super.onPostExecute(s);
            loading.dismiss();
            JSON STRING = s;
            showEmployee();
        @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, tampilPegawai.class);
    HashMap<String, String> map = (HashMap) parent.getItemAtPosition(position);
    String empId = map.get(konfigurasi.TAG ID).toString();
    intent.putExtra(konfigurasi.EMP ID, empId);
```

```
startActivity(intent);
}
```

6. activity\_tampilan\_semua\_pegawai.xml

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

## 7. buatlah activity → tampilPegawai

```
import androidx.appcompat.app.AppCompatActivity;
import android.app.AlertDialog;
import android.app.ProgressDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.AsyncTask;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import org.json.JSONArray;
import org.json.JSONException;
import org.json.JSONObject;
import java.util.HashMap;
public class tampilPegawai extends AppCompatActivity implements View.OnClickListener{
   private EditText editTextId;
   private EditText editTextName;
   private EditText editTextDesg;
   private EditText editTextSalary;
   private Button buttonUpdate;
   private Button buttonDelete;
   private String id;
    @Override
   protected void onCreate(Bundle savedInstanceState)
```

```
super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_tampil_pegawai);
    Intent intent = getIntent();
    id = intent.getStringExtra(konfigurasi.EMP ID);
    editTextId = (EditText) findViewById(R.id.editTextId);
    editTextName = (EditText) findViewById(R.id.editTextName);
    editTextDesg = (EditText) findViewById(R.id.editTextDesg);
    editTextSalary = (EditText) findViewById(R.id.editTextSalary);
    buttonUpdate = (Button) findViewById(R.id.buttonUpdate);
    buttonDelete = (Button) findViewById(R.id.buttonDelete);
    buttonUpdate.setOnClickListener(this);
    buttonDelete.setOnClickListener(this);
    editTextId.setText(id);
    getEmployee();
private void getEmployee(){
    class GetEmployee extends AsyncTask<Void, Void, String> {
        ProgressDialog loading;
        @Override
        protected void onPreExecute() {
            super.onPreExecute();
            loading = ProgressDialog.show(tampilPegawai.this,"Fetching...","Wait...",false,false);
        @Override
        protected void onPostExecute(String s) {
            super.onPostExecute(s);
            loading.dismiss();
            showEmployee(s);
        @Override
        protected String doInBackground(Void... params) {
            RequestHandler rh = new RequestHandler();
            String s = rh.sendGetRequestParam(konfigurasi.URL GET EMP,id);
            return s;
    GetEmployee ge = new GetEmployee();
    ge.execute();
private void showEmployee(String json) {
    try {
        JSONObject jsonObject = new JSONObject(json);
```

```
JSONArray result = jsonObject.getJSONArray(konfigurasi. TAG JSON ARRAY);
        JSONObject c = result.getJSONObject(0);
        String name = c.getString(konfigurasi.TAG NAMA);
        String desg = c.getString(konfigurasi.TAG POSISI);
        String sal = c.getString(konfigurasi.TAG GAJIH);
        editTextName.setText(name);
        editTextDesq.setText(desq);
        editTextSalary.setText(sal);
    } catch (JSONException e) {
        e.printStackTrace();
private void updateEmployee() {
    final String name = editTextName.getText().toString().trim();
    final String desg = editTextDesg.getText().toString().trim();
    final String salary = editTextSalary.getText().toString().trim();
    class UpdateEmployee extends AsyncTask<Void, Void, String>{
        ProgressDialog loading;
        @Override
        protected void onPreExecute() {
            super.onPreExecute();
            loading = ProgressDialog.show(tampilPegawai.this, "Updating...", "Wait...", false, false);
        @Override
        protected void onPostExecute(String s) {
            super.onPostExecute(s);
            loading.dismiss();
            Toast.makeText(tampilPegawai.this,s,Toast.LENGTH LONG).show();
        }
        @Override
        protected String doInBackground(Void... params) {
            HashMap<String, String> hashMap = new HashMap<>();
            hashMap.put(konfigurasi.KEY EMP ID, id);
            hashMap.put(konfigurasi.KEY EMP NAMA, name);
            hashMap.put(konfigurasi.KEY EMP POSISI, desg);
            hashMap.put(konfigurasi.KEY EMP GAJIH, salary);
            RequestHandler rh = new RequestHandler();
            String s = rh.sendPostRequest(konfigurasi. URL UPDATE EMP, hashMap);
            return s;
    UpdateEmployee ue = new UpdateEmployee();
```

```
ue.execute();
private void deleteEmployee(){
    class DeleteEmployee extends AsyncTask<Void, Void, String> {
        ProgressDialog loading;
        @Override
        protected void onPreExecute() {
            super.onPreExecute();
            loading = ProgressDialog.show(tampilPegawai.this, "Updating...", "Tunggu...", false, false);
        @Override
        protected void onPostExecute(String s) {
            super.onPostExecute(s);
           loading.dismiss();
            Toast.makeText(tampilPegawai.this, s, Toast.LENGTH LONG).show();
        @Override
        protected String doInBackground(Void... params) {
            RequestHandler rh = new RequestHandler();
            String s = rh.sendGetRequestParam(konfigurasi. URL DELETE EMP, id);
           return s;
    DeleteEmployee de = new DeleteEmployee();
    de.execute();
private void confirmDeleteEmployee(){
    AlertDialog.Builder alertDialogBuilder = new AlertDialog.Builder(this);
    alertDialogBuilder.setMessage("Apakah Kamu Yakin Ingin Menghapus Pegawai ini?");
    alertDialogBuilder.setPositiveButton("Ya",
            new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface arg0, int arg1) {
                    deleteEmployee();
                    startActivity(new Intent(tampilPegawai.this, TampilanSemuaPegawai.class));
            });
    alertDialogBuilder.setNegativeButton("Tidak",
            new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface arg0, int arg1) {
            });
```

```
AlertDialog alertDialog = alertDialogBuilder.create();
    alertDialog.show();
}

@Override
public void onClick(View v) {
    if(v == buttonUpdate) {
        updateEmployee();
    }

    if(v == buttonDelete) {
        confirmDeleteEmployee();
    }
}
```

8. Xml dari activity tersebut dengan LinearLayout orientasi vertical

```
<TextView
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:text="ID Pegawai" />
<EditText
   android:layout width="match parent"
   android:layout height="wrap content"
   android:id="@+id/editTextId" />
<TextView
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:text="Nama Pegawai" />
<EditText
   android:layout width="match parent"
   android:layout height="wrap content"
   android:id="@+id/editTextName" />
<TextView
   android:layout width="wrap content"
   android:layout height="wrap content"
   android:text="Posisi" />
<EditText
   android:layout width="match parent"
   android:layout height="wrap content"
   android:id="@+id/editTextDesg" />
<TextView
   android:layout width="wrap content"
```

```
android:layout height="wrap content"
   android:text="Salary" />
<EditText
   android:layout width="match parent"
   android:layout height="wrap content"
    android:id="@+id/editTextSalary" />
<Button
   android:layout width="match parent"
   android:layout height="wrap content"
   android:text="Update Pegawai"
   android:id="@+id/buttonUpdate" />
<Button
   android:layout width="match parent"
   android:layout height="wrap content"
   android:text="Hapus Pegawai"
    android:id="@+id/buttonDelete" />
```

#### 9. list\_item.xml

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

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