LAMPIRAN

MainActivity.java

```
package
com.example.translateindonesia_enrekang;
import
androidx.appcompat.app.AppCompatActivit
y;
import android.content.Intent;
import android.os.Bundle;
import android.text.TextUtils;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ImageView;
import android.widget.TextView;
import android.widget.Toast;
import com.android.volley.Request;
import com.android.volley.RequestQueue;
import com.android.volley.Response;
import com.android.volley.VolleyError;
import
com.android.volley.toolbox.StringRequest;
import com.android.volley.toolbox.Volley;
import org.json.JSONException;
import org.json.JSONObject;
import java.util.HashMap;
import java.util.Map;
public class MainActivity extends
AppCompatActivity {
    private EditText KamusEdt;
    private ImageView swapBtn;
    // creating variable.
    private TextView ResKamus;
    private Button GetKamusBut;
    @Override
    protected void onCreate(Bundle
savedInstanceState) {
        super.onCreate(savedInstanceState);

setContentView(R.layout.activity_main);
        // initializing all our variables
        ResKamus =
findViewById(R.id.ResKamus);
        GetKamusBut =
findViewById(R.id.ButGetKamus);
        KamusEdt =
findViewById(R.id.EdtKamus);
        swapBtn =
findViewById(R.id.ButSwap);
        // adding click listener for our button
        swapBtn.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                // Intent class will help to go to
next activity using
                // it's object named intent.
                // SecondActivty is the name of
new created EmptyActivity.
                Intent intent = new
Intent(MainActivity.this,
MainActivity2.class);
                startActivity(intent);
            }
        });
        // adding click listener for our button.
        GetKamusBut.setOnClickListener(new
View.OnClickListener() {
            @Override
            public void onClick(View v) {
                // checking if the text field is
empty or not.
                if
(TextUtils.isEmpty(KamusEdt.getText().toS
tring())) {

Toast.makeText(MainActivity.this,
"Masukan Kata",
Toast.LENGTH_SHORT).show();
                    return;
                }
                // calling method to process data.

getKamusDetails(KamusEdt.getText().toStri
ng());
            }
        });
    }
    private void getKamusDetails(String key)
{
        // url to post our data
        String url =
"http://kamusenrekangindonesia.my.id/enr-
ind.php";
        // creating a new variable for our
request xqueue
        RequestQueue queue =
Volley.newRequestQueue(MainActivity.this
);
        // on below line we are calling a string
        // request method to post the data to our
API
        // in this we are calling a post method.
        StringRequest request = new
StringRequest(Request.Method.POST, url,
new
com.android.volley.Response.Listener<Strin
g>() {
            @Override
            public void onResponse(String
response) {
```

```
            try {
                // on below line passing our
response to json object.
                JSONObject jsonObject = new
JSONObject(response);
                // on below line we are checking
if the response is null or not.
                if (jsonObject.getString("data")
== null) {
                    // displaying a toast message
if we get error

Toast.makeText(MainActivity.this,
"Masukan Kata.",
Toast.LENGTH_SHORT).show();
                } else {
                    // if we get the data then we
are setting it in our text views in below line.

ResKamus.setText(jsonObject.getString("da
ta"));
                }
                // on below line we are
displaying
                // a success toast message.
            } catch (JSONException e) {
                e.printStackTrace();
            }
        }
    }, new Response.ErrorListener() {
        @Override
        public void
onErrorResponse(VolleyError error) {
            // method to handle errors.

Toast.makeText(MainActivity.this, "Fail to
get data" + error,
Toast.LENGTH_SHORT).show();
        }
    }) {
        @Override
        public String getBodyContentType()
{
            // as we are passing data in the
form of url encoded
            // so we are passing the content
type below
            return "application/x-www-form-
urlencoded; charset=UTF-8";
        }
        @Override
        protected Map<String, String>
getParams() {
            // below line we are creating a map
for storing our values in key and value pair.
            Map<String, String> params =
new HashMap<String, String>();
            // on below line we are passing our
key and value pair to our parameters.
            params.put("key", key);
            // at last we are returning our
params.
            return params;
        }
    };
    // below line is to make
    // a json object request.
    queue.add(request);
  }
}
```

Enrekang-Indonesia

```
<?php require 'connect_db.php'; ?>
<?php
// an array to display response
$response = array();
// on below line we are checking if the
parameter send is id or not.
if ($_POST['key']) {
  // if the parameter send from the user then
  // we will search the item for specific
keyword.
  $key = $_POST['key'];
  //on below line we are selecting the data
with below key.
  // if we get the response then we are
displaying it below.
  $translateWord = $key;
  $words        = explode(' ',
$translateWord);
  $words        = str_replace("'", "\\'",
$words);
  $list = implode(',',
array_map(function($word)
  {
    return "'" . strtolower(trim($word)) . "'";
  }, $words));
  $words        = str_replace("\\'", "'",
$words); //back to real single quote

  //query to get data
  $query = "SELECT LOWER(enrekang)
AS enrekang, LOWER(indonesia) AS
indonesia
            FROM translate
            WHERE LOWER(enrekang) IN
($list)";

  //excute quesry and get result
  $res = mysqli_query($con, $query);
    //we iterate the result
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```
   while ($row = mysqli_fetch_assoc($res))
{
      $text   = strtolower($row['indonesia']);
      $dat    = array(
         'enrekang' => $row['enrekang'],
         'indonesia' => $row['indonesia']
      );
      $rows[] = $dat;
   }
   $translation = array();
   //if result not null
   if (mysqli_num_rows($res) != 0) {
      foreach ($words as $word) {
         if (($key =
array_search(strtolower($word),
array_column($rows, 'enrekang'))) !== false)
{
            // match case of result
            if (strtoupper($word) == $word) {
               $translation[] =
strtoupper($rows[$key]['indonesia']);
            } elseif (ucfirst($word) == $word)
{
               $translation[] =
ucfirst($rows[$key]['indonesia']);
            } else {
               $translation[] =
$rows[$key]['indonesia'];
            }
         } else {
            // no match, leave alone
            $translation[] = $word;
         }
      }
      $translation        = implode(' ',
$translation);
      $response['error']   = false;
      $response['message'] = "Retrieval
Successful!";
      $response['data']    = $translation;
   }
   //if result nt have data, just send keyword
   else {
      $translation        = $key;
      $response['error']   = false;
      $response['message'] = "Retrieval
Successful!";
      $response['data']    = $translation;
   }
}
else {
   // if the user donot adds any paramter
while making request
   // then we are displaying the error as
insufficient parameters.
   $response['error']   = true;
   $response['message'] = "Insufficient
Parameters";
}
// at last we are printing
// all the data on below line.
echo json_encode($response);
?>
```