

## Retrieving Contents from Remote Server

### API for Retrieving Data

#### getdata.php

```
<?php
    echo '[
        {"sid":1, "name":"Raju Poudel", "address":"Birtamod"},
        {"sid":2, "name":"Ram", "address":"Ktm"},
        {"sid":5, "name":"Hari", "address":"Ktm"}
    ]';
?>
```

```
localhost/bcaapi/getdata.php
[{"sid":1,"name":"Raju Poudel","address":"Birtamod"},{"sid":"3","name":"Ram","address":"Ktm"},{"sid":"5","name":"Hari","address":"Ktm"}]
```

## Retrieve and Display data in APP

#### myactivity.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">

    <Button
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_margin="50dp"
        android:text="Click Here"
        android:id="@+id/btnClick"
    />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Result:"
        android:layout_margin="20dp"
        android:textSize="22sp"
        android:id="@+id/txtRes"
    />
</LinearLayout>
```

### MyActivity.java

```
public class MyActivity extends Activity {
    Button btnClick;
    TextView txtRes;
    @Override
    protected void onCreate(Bundle b) {
        super.onCreate(b);
        setContentView(R.layout.myactivity);
        btnClick=findViewById(R.id.btnClick);
        txtRes=findViewById(R.id.txtRes);

        btnClick.setOnClickListener(view->{
            volleyRequest();
        });
    }

    public void volleyRequest(){
        // Instantiate the RequestQueue.
        RequestQueue queue = Volley.newRequestQueue(this);
        //url for localhost
        String url ="http://10.0.2.2/bcaapi/getdata.php";
        // Request a string response from the provided URL.
        StringRequest stringRequest = new
StringRequest(Request.Method.GET, url,
            new Response.Listener<String>() {
                @Override
                public void onResponse(String response) {
                    //displaying response string in txtRes
                    txtRes.setText(response);
                }
            }, new Response.ErrorListener() {
                @Override
                public void onErrorResponse(VolleyError error) {
                    //displaying error response message
                    Log.d("exception",error.toString());
                }
            });
        // Add the request to the RequestQueue.
        queue.add(stringRequest);
    }
}
```

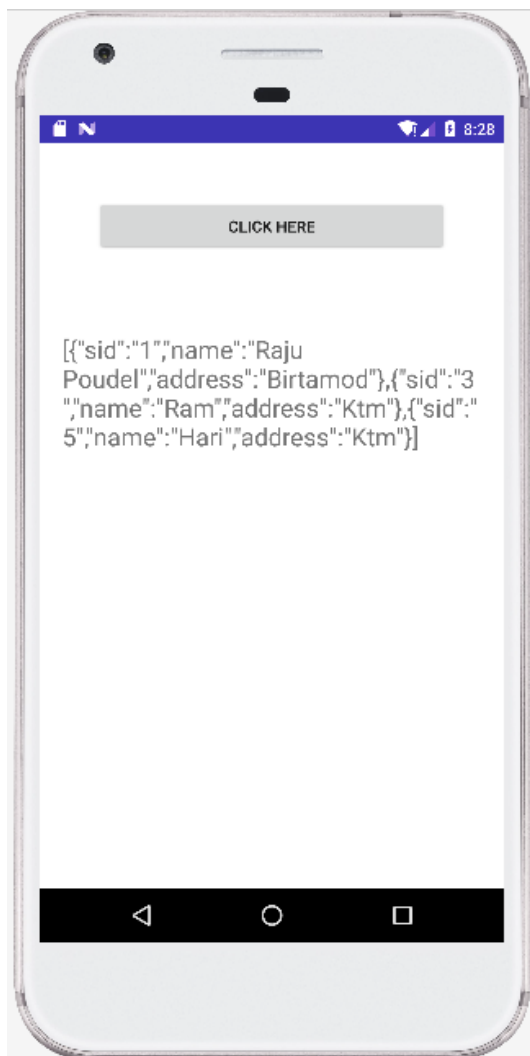
To use volley in your application, we need to add following dependency in our project:

```
dependencies {  
    ...  
    implementation 'com.android.volley:volley:1.1.1'  
}
```

Also, to use Volley, you must add the [android.permission.INTERNET](#) permission to your app's manifest. Without this, your app won't be able to connect to the network.

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

## Output



## Decode JSON and Display as per your wish

```
public void decodeJson(String res){
    try{
        JSONArray jarray=new JSONArray(res);
        for(int i=0;i<jarray.length();i++){
            JSONObject jobj=jarray.getJSONObject(i);
            int sid=jobj.getInt("sid");
            String name=jobj.getString("name");
            String address=jobj.getString("address");
            //display as per your requirement...
        }
    }catch (Exception ex){}
}
```