

## HttpHandler.java

```
package com.sutanto.teguh.json2;
import android.support.annotation.NonNull;
import android.util.Log;

import java.io.BufferedInputStream;
import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStream;
import java.io.InputStreamReader;
import java.net.HttpURLConnection;
import java.net.MalformedURLException;
import java.net.ProtocolException;
import java.net.URL;

/**
 * Created by teguh on 22/11/16.
 */

public class HttpHandler {
    private static final String TAG = HttpHandler.class.getSimpleName();
    public HttpHandler() {}

    public String makeServiceCall(String reqUrl) {
        String response = null;
        try {
            URL url = new URL(reqUrl);
            HttpURLConnection conn = (HttpURLConnection)
url.openConnection();
            conn.setRequestMethod("GET");
            InputStream in = new
BufferedInputStream(conn.getInputStream());
            response = convertStreamToString(in);
        } catch (Exception e) {
            Log.e(TAG, "Exception: " + e.getMessage());
        }
        return response;
    }
    @NonNull
    private String convertStreamToString(InputStream is) {
        BufferedReader reader = new BufferedReader(new
InputStreamReader(is));
        StringBuilder sb = new StringBuilder();
        String line;
        try {
            while ((line = reader.readLine()) != null) {
                sb.append(line).append('\n');
            }
        } catch (IOException e) {
            e.printStackTrace();
        } finally {
            try {
                reader.close();
            } catch (IOException e) {
                e.printStackTrace();
            }
        }

        return sb.toString();
    }
}
```



```

        // Phone node is JSON Object
        JSONObject phone = c.getJSONObject("phone");
        String mobile = phone.getString("mobile");
        String home = phone.getString("home");
        String office = phone.getString("office");
        // tmp hash map for single contact
        HashMap<String, String> contact = new HashMap<>();
        // adding each child node to HashMap key => value
        contact.put("id", id);
        contact.put("name", name);
        contact.put("email", email);
        contact.put("mobile", mobile);
        // adding contact to contact list
        contactList.add(contact);
    }
} catch (final JSONException e) {
    Log.e(TAG, "Json parsing error: " + e.getMessage());
    runOnUiThread(new Runnable() {
        @Override
        public void run() {
            Toast.makeText(getApplicationContext(),
                "Json parsing error: " +
e.getMessage(),
                Toast.LENGTH_LONG).show();
        }
    });
}

} else {
    Log.e(TAG, "Tidak dapat mengunduh JSon dari server.");
    runOnUiThread(new Runnable() {
        @Override
        public void run() {
            Toast.makeText(getApplicationContext(),
                "Couldn't get json from server. Check
LogCat for possible errors!",
                Toast.LENGTH_LONG).show();
        }
    });
}

return null;
}

@Override
protected void onPostExecute(Void result) {
    super.onPostExecute(result);
    ListAdapter adapter = new SimpleAdapter(MainActivity.this,
contactList,
        R.layout.list_item, new String[]{
"name", "email", "mobile"},
        new int[]{R.id.nama, R.id.email, R.id.mobile});
    lv.setAdapter(adapter);
}
}
}

```