Nama: Dimas Adiyaksa Tri P

NIM: 14116047

TUGAS PRAKTIKUM #5

Pengembangan Aplikasi Mobile

1. Activity_main.xml

2. MainActivity.java

```
InputMethodManager.HIDE NOT ALWAYS);
ConnectivityManager connMgr = (ConnectivityManager)
        getSystemService(Context.CONNECTIVITY_SERVICE);
NetworkInfo networkInfo = null;
if (connMgr != null) {
   networkInfo = connMgr.getActiveNetworkInfo();
if (networkInfo != null && networkInfo.isConnected()
        && queryString.length() != 0) [
   Bundle queryBundle = new Bundle();
   queryBundle.putString("queryString", queryString);
   getSupportLoaderManager().restartLoader(0, queryBundle, this);
   mAuthorText.setText("");
   mTitleText.setText(R.string.loading);
   if (queryString.length() == 0) (
        mTitleText.setText(R.string.no_search_term);
       mAuthorText.setText("");
        mTitleText.setText(R.string.no network);
```

```
@NonNull
@Override
public Loader<String> onCreateLoader(int id, @Nullable Bundle args) {
   String queryString = "";
   if (args != null) (
       queryString = args.getString("queryString");
   return new BookLoader(this, queryString);
@Override
public void onLoadFinished(@NonNull Loader<String> loader, String data) (
        JSONObject jsonObject = new JSONObject(data);
       JSONArray itemsArray = jsonObject.getJSONArray("items");
        int i = 0;
        String title = null;
       String authors = null;
        while (i < itemsArray.length() &&
            JSONObject book = itemsArray.getJSONObject(i);
            JSONObject volumeInfo = book.getJSONObject("volumeInfo");
```

```
authors = volumeInfo.getString("authors");
           } catch (JSONException e) {
               e.printStackTrace();
           mTitleText.setText(title);
           mAuthorText.setText(authors);
           mTitleText.setText(R.string.no_results);
    } catch (Exception e) {
       mTitleText.setText(R.string.no_results);
       e.printStackTrace();
public void onLoaderReset(@NonNull Loader<String> loader) {
```

3. NetworkUtils.java

```
Uri builtURI = Uri.parse(BOOK BASE URL).buildUpon()
        .appendQueryParameter(QUERY PARAM, queryString)
        .appendQueryParameter(MAX RESULTS, "10")
        .appendQueryParameter(PRINT TYPE, "books")
        .build();
URL requestURL = new URL(builtURI.toString());
urlConnection = (HttpURLConnection) requestURL.openConnection();
urlConnection.setRequestMethod("GET");
urlConnection.connect();
InputStream inputStream = urlConnection.getInputStream();
reader = new BufferedReader(new InputStreamReader(inputStream));
StringBuilder builder = new StringBuilder();
String line:
while ((line = reader.readLine()) != null) {
   builder.append(line);
   builder.append("\n");
if (builder.length() == 0) {
```

```
return null;
}

bookJSONString = builder.toString();

catch (IOException e) {
    e.printStackTrace();
} finally {
    // Close the connection and the buffered reader.
    if (urlConnection != null) {
        urlConnection.disconnect();
}

if (reader != null) {
        try {
            reader.close();
        } catch (IOException e) {
            e.printStackTrace();
        }
}

// Write the final JSON response to the log
Log.d(LOG_TAG, bookJSONString);

return bookJSONString;
```

4. BookLoader.java

```
public class BookLoader extends AsyncTaskLoader<String> {
    private String mQueryString;

    BookLoader(Context context, String queryString) {
        super(context);
        mQueryString = queryString;
    }

    @Override
    protected void onStartLoading() {
        super.onStartLoading();
        forceLoad();
    }

    @Nullable
    @Override
    public String loadInBackground() { return NetworkUtils.getBookInfo(mQueryString); }
}
```

Screenshoot Hasil







