"LAPORAN TUGAS FIREBASE CRUF"
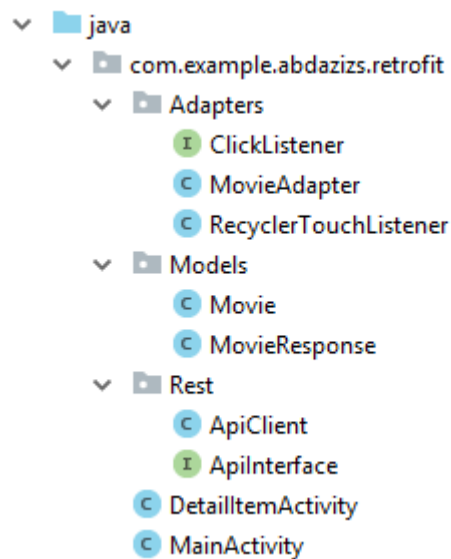# PEMROGRAMAN ANDROID

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PROGRAM STUDI D3 MANAJEMEN INFORMATIKA
JURUSAN TEKNOLOGI INFORMASI
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1. Membuat Class

```
v   java
    v   com.example.abdazizs.retrofit
        v   Adapters
            I   ClickListener
            C   MovieAdapter
            C   RecyclerTouchListener
        v   Models
            C   Movie
            C   MovieResponse
        v   Rest
            C   ApiClient
            I   ApiInterface
        C   DetailItemActivity
        C   MainActivity
```

*menambah Class ClickListener dan RecyclerTouchListener pada Adapters yang di copy dari tugas sebelumnya

Source code (yang diubah)

a. Movie

```java
//tugas tambahan
@SerializedName("popularity")
private Double popularity;
@SerializedName("poster_path")
private String poster;
@SerializedName("backdrop_path")
private String backdrop;

//tugas tambahan
public Double getPopularity() { return popularity; }

public void setPopularity(Double popularity) { this.popularity = popularity; }

public String getPoster() { return poster; }

public void setPoster(String poster) { this.poster = poster; }

public String getBackdrop() { return backdrop; }

public void setBackdrop(String backdrop) { this.backdrop = backdrop; }
```

b. ApiInterface

```java
@GET("movie/{id}")
Call<Movie> getMovieDetails(@Path("id") int id, @Query("api_key") String apiKey);
```

c. Code DetailItemActivity

```java
package com.example.abdazizs.retrofit;

import android.content.Intent;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.graphics.drawable.BitmapDrawable;
import android.graphics.drawable.Drawable;
import android.os.Bundle;
import android.support.annotation.NonNull;
import android.support.annotation.Nullable;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.RecyclerView;
import android.util.Log;
import android.view.View;
import android.widget.ImageView;
import android.widget.LinearLayout;
import android.widget.TextView;

import com.bumptech.glide.Glide;
import com.bumptech.glide.request.target.SimpleTarget;
import com.bumptech.glide.request.target.Target;
import com.bumptech.glide.request.transition.Transition;
import com.example.abdazizs.retrofit.Adapters.ClickListener;
import com.example.abdazizs.retrofit.Adapters.MovieAdapter;
import com.example.abdazizs.retrofit.Adapters.RecyclerTouchListener;
import com.example.abdazizs.retrofit.Models.Movie;
import com.example.abdazizs.retrofit.Models.MovieResponse;
import com.example.abdazizs.retrofit.Rest.ApiClient;
import com.example.abdazizs.retrofit.Rest.ApiInterface;
import com.squareup.picasso.Picasso;

import java.io.BufferedInputStream;
import java.io.InputStream;
import java.net.URL;
import java.net.URLConnection;
import java.util.List;



import javax.xml.transform.stream.StreamSource;

import retrofit2.Call;
import retrofit2.Callback;
import retrofit2.Response;

import static android.app.PendingIntent.getActivity;
import static android.graphics.drawable.Drawable.createFromPath;

public class DetailItemActivity extends AppCompatActivity {

    TextView nmDetail,tglDetail,ratDetail,deskripDetail,popular;
    LinearLayout lay;
    ImageView poster;
    private final static String API_KEY
="9ed3e221fc7b2c3e9536e74e9122c25b";
    private static final String TAG = MainActivity.class.getSimpleName();

    @Override
    protected void onCreate(@Nullable Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.detail_item_movie);
//        rView = (RecyclerView) findViewById(R.id.movies_recycler_view);
```

```java
        nmDetail = findViewById(R.id.txNamaDetail);
        tglDetail = findViewById(R.id.txTglDetail);
        ratDetail = findViewById(R.id.txratingDeTail);
        popular = findViewById(R.id.txPopularity);
        lay = findViewById(R.id.layBack);
        poster = findViewById(R.id.imgDetail);

        deskripDetail = findViewById(R.id.txDeskripsiDetail);

        //final List<Movie> movies = response.body().getResults();

        ApiInterface apiService =
ApiClient.getClient().create(ApiInterface.class);


        Intent i = getIntent();

        final int id = i.getIntExtra("id",0);

        Call<Movie> callDetail = apiService.getMovieDetails(id,API_KEY);

        callDetail.enqueue(new Callback<Movie>() {
            @Override
            public void onResponse(Call<Movie>call, Response<Movie>
response) {
                int statusCode = response.code();
                final Movie movies = response.body();

                nmDetail.setText(movies.getTitle());
                tglDetail.setText(movies.getReleaseDate());
                deskripDetail.setText(movies.getOverview());
                ratDetail.setText(movies.getVoteAverage().toString());
                popular.setText(movies.getPopularity().toString());

                Glide.with(getApplicationContext()).asBitmap()

.load("https://image.tmdb.org/t/p/w600_and_h900_bestv2" +
movies.getPoster())
                        .into(poster);
                Glide
                        .with(getApplicationContext())
                        .asBitmap()

.load("https://image.tmdb.org/t/p/w600_and_h900_bestv2" +
movies.getBackdrop())
                        .into(new SimpleTarget<Bitmap>(1000, 500) {
                            @Override
                            public void onResourceReady(@NonNull Bitmap
resource, @Nullable Transition<? super Bitmap> transition) {
                                Drawable dr = new
BitmapDrawable(resource);
                                lay.setBackgroundDrawable(dr);
                            }

                        });
            }
            //PERCOBAAN YANG MEMBINGUNGKAN
//                            @Override
//                            public void onResourceReady(Bitmap
resource, GlideAnimation glideAnimation) {
//                                Drawable dr = new
```

```java
BitmapDrawable(resource);
//                                  lay.setBackgroundDrawable(dr);
//                                  // Possibly runOnUiThread()
//                          }
//                  });
//
//
Glide.with(getApplicationContext()).asBitmap().load("https://image.tmdb.o
rg/t/p/w600_and_h900_bestv2"+movies.getBackdrop()).into(new
SimpleTarget<Bitmap>(100,100) {
//                  @Override
//                  public void onResourceReady(@NonNull Bitmap
resource, GlideAnimation glideAnimation) {
//
//                  }
////                          @Override
////                          public void onResourceReady(Bitmap
resource, GlideAnimation glideAnimation) {
////                              Drawable dr = new
BitmapDrawable(resource);
////                              theLayout.setBackgroundDrawable(dr);
////                              // Possibly runOnUiThread()
////                          }
//                  });

              //Bitmap c =  null,b = null;

//              try
//              {
//                  URL url = new
URL("https://api.themoviedb.org/3/movie/latest?api_key="+movies.getPoster
());
//                  InputStream is = new
BufferedInputStream(url.openStream());
//                  b = BitmapFactory.decodeStream(is);
//              } catch(Exception e){}
//
//
//
//              poster.setImageBitmap(b);
//
//              try
//              {
//                  URL url = new
URL("https://api.themoviedb.org/3/movie/latest?api_key="+movies.getBackdr
op());
//                  InputStream is = new
BufferedInputStream(url.openStream());
//                  c = BitmapFactory.decodeStream(is);
//              } catch(Exception e){}
//
//
//              BitmapDrawable background = new BitmapDrawable(c);
//              lay.setBackgroundDrawable(background);



            @Override
            public void onFailure(Call<Movie>call, Throwable t) {
                // Log error here since request failed
                Log.e(TAG, t.toString());
```

```
            }
      });




    }
}
```

d. Menambah click listtener pada MainActivity

```
call.enqueue(new Callback<MovieResponse>() {
    @Override
    public void onResponse(Call<MovieResponse>call, Response<MovieResponse> response) {
        int statusCode = response.code();
        final List<Movie> movies = response.body().getResults();
        recyclerView.setAdapter(new MovieAdapter(movies, R.layout.List_item_movie, getApplicationContext()));

        recyclerView.addOnItemTouchListener(new RecyclerTouchListener(getApplicationContext(), recyclerView, new ClickListener() {
            @Override
            public void onClick(View view, int posi) {
                Movie m = movies.get(posi);
                int id = m.getId();
                Intent i = new Intent(getApplicationContext(),DetailItemActivity.class);
                i.putExtra( name: "id",id);
                //i.putExtra("id",);
                startActivity(i);
            }

            @Override
            public void onLongClick(View view, int posi) {

            }
        }));
    }
```
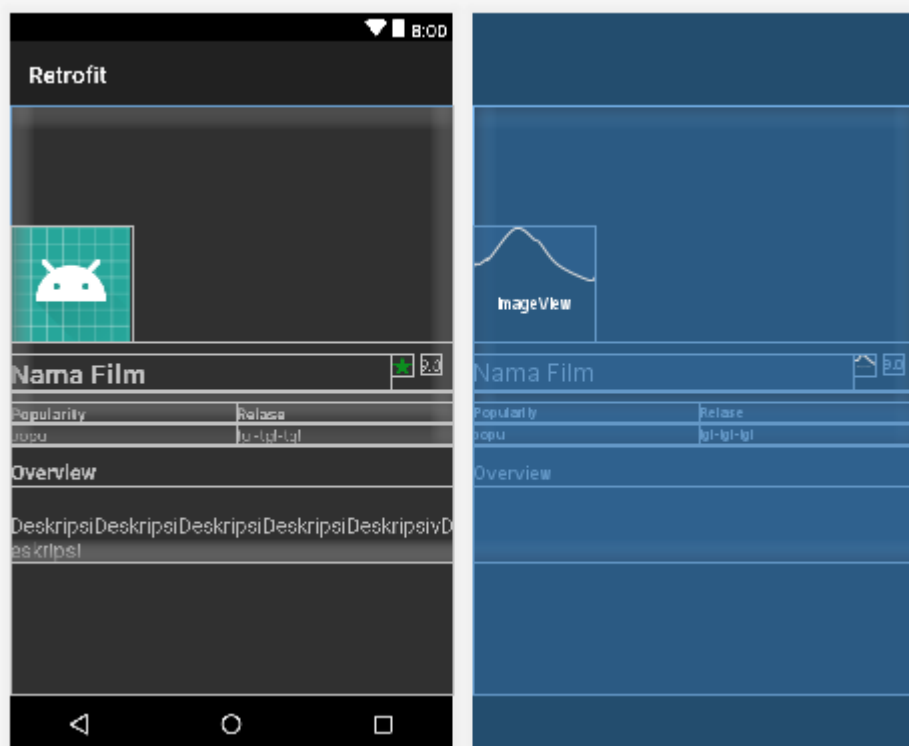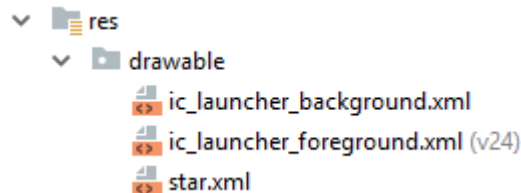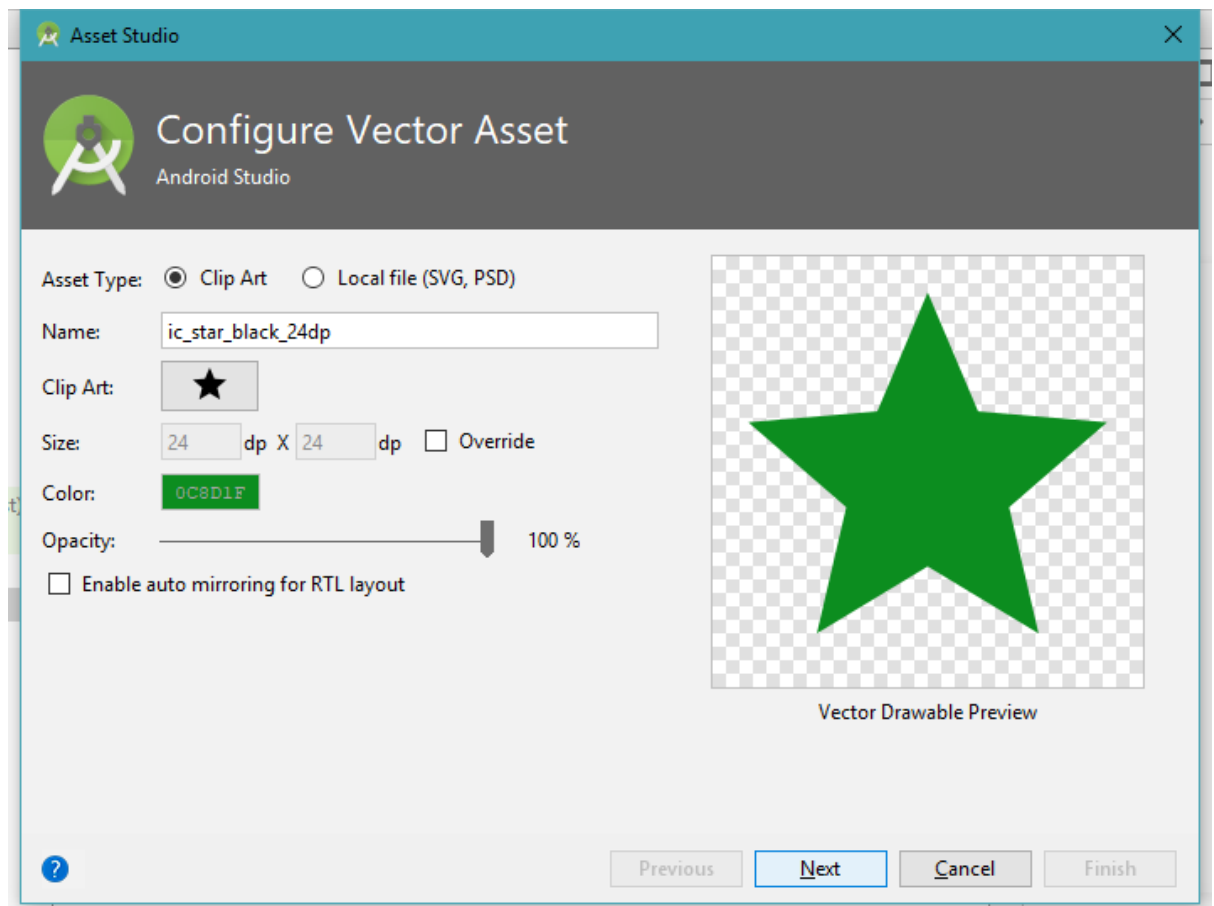
2. Membuat layout
   a. Tambah layout detail_item_movie

3. Menambah file pada drawable dengan nama star

4. Menambah library glide pada gradle

```
dependencies {
    implementation fileTree(include: ['*.jar'], dir: 'libs')
    implementation 'com.android.support:appcompat-v7:28.0.0'
    implementation 'com.android.support.constraint:constraint-layout:1.1.3'
    testImplementation 'junit:junit:4.12'
    androidTestImplementation 'com.android.support.test:runner:1.0.2'
    androidTestImplementation 'com.android.support.test.espresso:espresso-core:3.0.2'
    //Retrofit, Gson, RecyclerView
    implementation 'com.google.code.gson:gson:2.6.2'
    implementation 'com.squareup.retrofit2:retrofit:2.0.2'
    implementation 'com.squareup.retrofit2:converter-gson:2.0.2'
    implementation 'com.android.support:recyclerview-v7:28.0.0'
    implementation 'com.android.support:support-v4:28.0.0'
    implementation 'com.github.bumptech.glide:glide:4.8.0'
    implementation 'com.squareup.picasso:picasso:2.71828'
```

5. Hasil

Retrofit

Dilwale Dulhania Le Jayenge
1995-10-20
Raj is a rich, carefree, happy-go-lucky second
generation NRI. Simran is the daughter of
Chaudhary Baldev Singh, who in spite of being

⭐ 9.2

The Shawshank Redemption
1994-09-23
Framed in the 1940s for the double murder of
his wife and her lover, upstanding banker Andy
Dufresne begins a new life at the Shawshank

⭐ 8.6

The Godfather
1972-03-14
Spanning the years 1945 to 1955, a chronicle of
the fictional Italian-American Corleone crime
family. When organized crime family patriarch, Vito

⭐ 8.6

Your Name.
2016-08-26
High schoolers Mitsuha and Taki are complete
strangers living separate lives. But one night, they
suddenly switch places. Mitsuha wakes up in

⭐ 8.5

Schindler's List
1993-12-15
The true story of how businessman Oskar
Schindler saved over a thousand Jewish lives
from the Nazis while they worked as slaves in his

⭐ 8.5

Retrofit

Dilwale Dulhania Le Jayenge ★ 9.2

Popularity
19.103

Relase
1995-10-20

Overview

Raj is a rich, carefree, happy-go-lucky second generation NRI. Simran is the daughter of Chaudhary Baldev Singh, who in spite of being an NRI is very strict about adherence to Indian values. Simran has left for India to be married to her childhood fiancé. Raj leaves for India with a mission at his hands, to claim his lady love under the noses of her whole family. Thus begins a saga.