Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

#### **DOKUMEN APLIKASI**

# GOOGLE MATERIAL DESIGN CARDS DAN RECYCLER ANDROID



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Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

#### **DAFTAR ISI**

DAF	TAR ISI	2
DAF	TAR GAMBAR	2
RIN	GKASAN EKSEKUTIF	3
1	Membuat CardView Material Design	4
2	Membuat RecyclerView Material Design	. 10
3	Memanggil CardView dan RecyclerView dari Menu Drawer	. 21
4	Referensi	22

## **DAFTAR GAMBAR**

NO TABLE OF FIGURES ENTRIES FOUND.

Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

#### RINGKASAN EKSEKUTIF

Pada latihan ini kita akan membuat dua object Material Design yang saling terkait satu sama lain, yaitu CardView dan RecylerView. Pertama kita akan membuat CardView dengan ImageView, Text dan Button. Kita memberikan event jika button itu diklik. Kita akan membuat RecyclerView dengan memanggil CardView yang kita telah buat. Jika pada CardView muncul sebuah card, pada RecyclerView akan muncul sebuah daftar aka Lists cards yang bersifat continyu. Semua event click button yang telah dibuat di CardView harus ditulis kembali untuk keperluan RecyclerView.

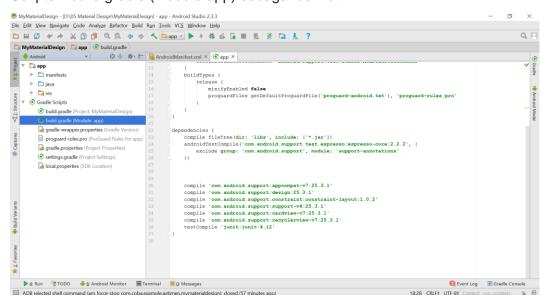
Kita akan membagi dua recycler dengan enam gambar hobby yang disimpan dalam folder drawable. Tiga untuk model pertama dan tiga gambar untuk model kedua. Jika ditekan button Save pada RecyclerView akan memuculkan Toast item yang diklik dengan metode yang berbeda.

Pada latihan ini kita membuat dua buah fragment dan menu drawer untuk CardView yaitu frg\_cards\_android.java dan untuk RecyclerView yaitu frg\_recycler\_view.java. Selamat berlatih Sahabat ASIC.

Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

## 1 Membuat CardView Material Design

a. Untuk mengaktifkan CardView dan RecyclerView kita perlu menambah file build.gradle (Module:app) yang terletak pada folder : app→Gradle Scripts→build.gradle (Module:app) sebagai berikut :



apply plugin: 'com.android.application'

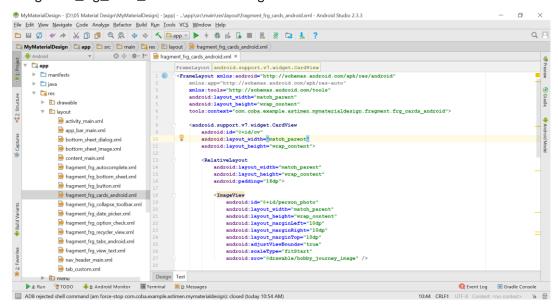
```
compileSdkVersion 25
   buildToolsVersion "26.0.1"
   defaultConfig {
       applicationId "com.coba.example.astimen.mymaterialdesign"
       minSdkVersion 18
        targetSdkVersion 25
       versionCode 1
       versionName "1.0"
        {\tt testInstrumentationRunner}
"android.support.test.runner.AndroidJUnitRunner"
   buildTypes {
       release {
           minifyEnabled false
           proguardFiles getDefaultProguardFile('proguard-android.txt'),
'proguard-rules.pro'
dependencies {
   compile fileTree(dir: 'libs', include: ['*.jar'])
   androidTestCompile('com.android.support.test.espresso:espresso-
core:2.2.2', {
       exclude group: 'com.android.support', module: 'support-
annotations'
   })
    compile 'com.android.support:appcompat-v7:25.3.1'
    compile 'com.android.support:design:25.3.1'
    compile 'com.android.support.constraint:constraint-layout:1.0.2'
    compile 'com.android.support:support-v4:25.3.1'
   compile 'com.android.support:cardview-v7:25.3.1'
   compile 'com.android.support:recyclerview-v7:25.3.1'
   testCompile 'junit:junit:4.12'
}
```

Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

b. Tambahkan:

```
compile 'com.android.support:cardview-v7:25.3.1'
compile 'com.android.support:recyclerview-v7:25.3.1'
```

- c. Perhatikan versi cardview dan recyclerview haru sama dengan appcompat yaitu v-7.25.3.1. Jika tidak sama akan terjadi error. Jalankan button Sync Now dipojok kanan atas.
- d. Butalah sebuah fragment dengan nama frg\_cards\_android dengan file layout xml fragment\_frg\_card\_android.xml sebagai berikut :



```
<FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout_width="match_parent"
   android:layout_height="wrap_content"</pre>
```

 ${\tt tools:context="com.coba.example.astimen.mymaterialdesign.fragment.frg\_cards\_android">}$ 

```
<android.support.v7.widget.CardView
android:id="@+id/cv"</pre>
```

android: layout width="match parent"

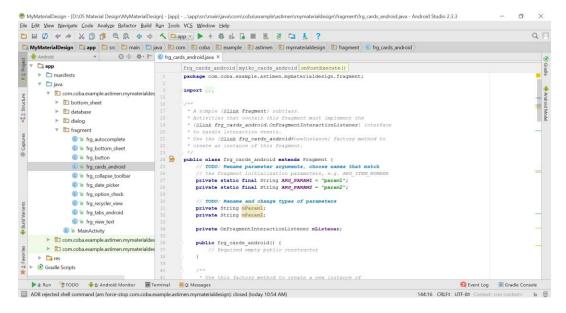
```
android:layout_height="wrap_content">

<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:padding="16dp">

<ImageView
        android:id="@+id/person_photo"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginLeft="10dp"
        android:layout_marginRight="10dp"
        android:layout_marginTop="10dp"
        android:layout_marginTop="10dp"
        android:scaleType="fitStart"
        android:scaleType="fitStart"
        android:src="@drawable/hobby_journey_image" />
```

```
<TextView
                android:id="@+id/person name"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:layout_below="@+id/person_photo"
                android: text="Journey"
                android:textSize="30sp" />
            <TextView
                android:id="@+id/person age"
                android:layout width="match parent"
                android:layout height="wrap content"
                android:layout below="@+id/person name"
                android: text="@string/keterangan" />
            <Button
                android:id="@+id/button_like_card"
                android:layout width="wrap content"
                android:layout_height="wrap_content"
                android:layout below="@+id/person age"
                android:text="Like" />
            <Button
                android:id="@+id/button save card"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:layout_below="@+id/person_age"
                android:layout_toRightOf="@+id/button_like_card"
                android:text="Save" />
        </RelativeLayout>
    </android.support.v7.widget.CardView>
</FrameLayout>
```

- e. Kita membuat dalam card sebuah ImageView, sebuat TextView dan buah Button seperti layout diatas.
- f. Ubah kode frg\_cards\_android.java sebagai berikut :



```
package com.coba.example.astimen.mymaterialdesign.fragment;
import android.content.Context;
import android.net.Uri;
import android.os.AsyncTask;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.Toast;
import com.coba.example.astimen.mymaterialdesign.R;
 * A simple {@link Fragment} subclass.
 * Activities that contain this fragment must implement the
 * \ \{ \textit{@link} \ \text{frg\_cards\_android.OnFragmentInteractionListener} \} \ \text{interface}
 * to handle interaction events.
 * Use the {@link frg cards android#newInstance} factory method to
 * create an instance of this fragment.
public class frg cards android extends Fragment {
    // TODO: Rename parameter arguments, choose names that match
    // the fragment initialization parameters, e.g. ARG ITEM NUMBER
    private static final String ARG PARAM1 = "param1";
    private static final String ARG_PARAM2 = "param2";
    // TODO: Rename and change types of parameters
    private String mParam1;
    private String mParam2;
    private OnFragmentInteractionListener mListener;
    public frg_cards_android() {
        // Required empty public constructor
    /**
     ^{\star} Use this factory method to create a new instance of
     ^{\star} this fragment using the provided parameters.
     * @param param1 Parameter 1.
     * @param param2 Parameter 2.
     * @return A new instance of fragment frg_cards_android.
    // TODO: Rename and change types and number of parameters
    public static frg_cards_android newInstance(String param1, String
param2) {
        frg cards android fragment = new frg cards android();
        Bundle args = new Bundle();
        args.putString(ARG_PARAM1, param1);
        args.putString(ARG_PARAM2, param2);
        fragment.setArguments(args);
        return fragment;
    }
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        if (getArguments() != null) {
            mParam1 = getArguments().getString(ARG_PARAM1);
            mParam2 = getArguments().getString(ARG PARAM2);
    }
```

```
@Override
   public View onCreateView(LayoutInflater inflater, ViewGroup container,
                            Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        new myikc cards android().execute();
       return inflater.inflate(R.layout.fragment frg cards android,
container, false);
   }
    // TODO: Rename method, update argument and hook method into UI event
   public void onButtonPressed(Uri uri) {
        if (mListener != null) {
           mListener.onFragmentInteraction(uri);
        }
    }
   @Override
   public void onAttach(Context context) {
      super.onAttach(context);
}
    @Override
   public void onDetach() {
       super.onDetach();
       mListener = null;
    }
    /**
    * This interface must be implemented by activities that contain this
    * fragment to allow an interaction in this fragment to be
communicated
     * to the activity and potentially other fragments contained in that
     * activity.
     * 
    * See the Android Training lesson <a href=
"http://developer.android.com/training/basics/fragments/communicating.html
     * >Communicating with Other Fragments</a> for more information.
   public interface OnFragmentInteractionListener {
       // TODO: Update argument type and name
        void onFragmentInteraction(Uri uri);
   public void pesan toast ( final String pesan) {
        Toast.makeText(getActivity(), pesan, Toast.LENGTH LONG).show();
    class myikc cards android extends AsyncTask<String, String, String> {
        @Override
       protected String doInBackground(String... args) {
           return null;
```

#### protected void onPostExecute(String file\_url) {

```
Button btn_like=(Button)
getView().findViewById(R.id.button_like_card);
            btn like.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    pesan toast("Button Like clicked ....");
                }
            });
            Button btn save=(Button)
getView().findViewById(R.id.button save card);
            btn_save.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    pesan toast("Button Save clicked ....");
                }
            });
       }
    }
}
```

g. Perhatikan jika height dan width Fragment tidak sama dengan CardView nya akan tebentuk space, maka kita menyamakanya sebagai berikut :

```
FrameLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android: layout_width="match_parent"
   android:layout_height="wrap_content"
tools:context="com.coba.example.astimen.mymaterialdesign.fragment.frg_card
s_android">
    <android.support.v7.widget.CardView</pre>
        android:id="@+id/cv"
        android:layout width="match parent"
        android: layout height="wrap content">
        <RelativeLayout
            android:layout_width="match_parent"
            android: layout height="wrap content"
            android:padding="16dp">
            <ImageView</pre>
```

- h. Kode diatas akan menampilkan pesan\_toast jika button dalam card diklik baik button Like maupun button Save.
- i. Silahkan mencobanya dengan memanggilnya dari menu drawer.

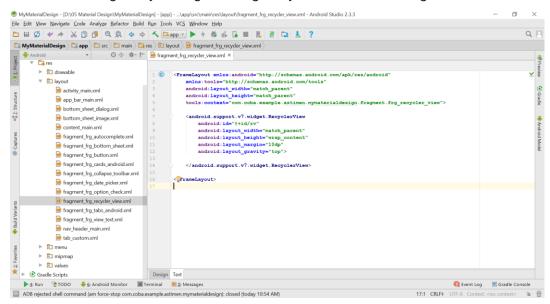
Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

## 2 Membuat RecyclerView Material Design

 a. Sekarang rancangan layout card yang bernama cv (CardView) kita panggil dari rv (RecyclerView) sebagai berikut :

```
<android.support.v7.widget.CardView
    android:id="@+id/cv"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
```

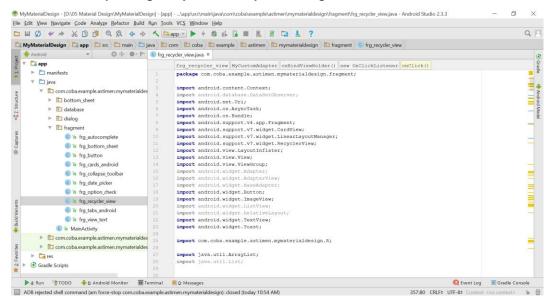
b. Buatlah rancangan layou fragment\_frg\_recycler\_view.xml sebagai berikut :



c. Perhatikan kode xml layout diatas kita memberikan margin 10 dp untuk kiri, kanan, atas dan bawah sehingga RecyclerView tampak lebih bagus. Berinama dengan rv (RecyclerView).

Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

d. Ubahlah kode java frg\_recycler\_view.java sebagai berikut :



```
package com.coba.example.astimen.mymaterialdesign.fragment;
import android.content.Context;
import android.database.DataSetObserver;
import android.net.Uri;
import android.os.AsyncTask;
import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v7.widget.CardView;
import android.support.v7.widget.LinearLayoutManager;
import android.support.v7.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Adapter;
import android.widget.AdapterView;
import android.widget.BaseAdapter;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.ListView;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;
import com.coba.example.astimen.mymaterialdesign.R;
import java.util.ArrayList;
import java.util.List;
 * A simple {@link Fragment} subclass.
 ^{\star} Activities that contain this fragment must implement the
 * {@link frg recycler_view.OnFragmentInteractionListener} interface
 * to handle interaction events.
 * Use the {@link frg_recycler_view#newInstance} factory method to
 * create an instance of this fragment.
public class frg recycler view extends Fragment {
    // TODO: Rename parameter arguments, choose names that match
    // the fragment initialization parameters, e.g. ARG ITEM NUMBER
    private static final String ARG_PARAM1 = "param1";
    private static final String ARG PARAM2 = "param2";
```

Dokumen Aplikasi Ver 1.0 Google Material CardView dan RecyclerView IKC

```
// TODO: Rename and change types of parameters
    private String mParam1;
   private String mParam2;
    private OnFragmentInteractionListener mListener;
    private static String name="";
   private static String age="";
    private static int photiId;
   private int nom=0;
   private static ArrayList<SearchResults> results = new
ArrayList<SearchResults>();
   private SearchResults sr1 = new SearchResults();
      public frg recycler view() {
        // Required empty public constructor
    }
     * Use this factory method to create a new instance of
     * this fragment using the provided parameters.
     * @param param1 Parameter 1.
     * @param param2 Parameter 2.
     * @return A new instance of fragment frg_recycler_view.
    // TODO: Rename and change types and number of parameters
   public static frg_recycler_view newInstance(String param1, String
param2) {
        frg_recycler_view fragment = new frg_recycler_view();
        Bundle args = new Bundle();
        args.putString(ARG_PARAM1, param1);
        args.putString(ARG_PARAM2, param2);
        fragment.setArguments(args);
        return fragment;
    }
    @Override
   public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        if (getArguments() != null) {
            mParam1 = getArguments().getString(ARG PARAM1);
            mParam2 = getArguments().getString(ARG PARAM2);
        }
    }
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        // Inflate the layout for this fragment
        new myikc recycler().execute();
        return inflater.inflate (R.layout.fragment frg recycler view,
container, false);
    }
    // TODO: Rename method, update argument and hook method into UI event
   public void onButtonPressed(Uri uri) {
        if (mListener != null) {
            mListener.onFragmentInteraction(uri);
        }
    }
    @Override
    public void onAttach(Context context) {
        super.onAttach(context);
```

```
@Override
         public void onDetach() {
                   super.onDetach();
                   mListener = null;
          }
          /**
             * This interface must be implemented by activities that contain this
            * fragment to allow an interaction in this fragment to be
communicated
            * to the activity and potentially other fragments contained in that
            * activity.
            * 
            * See the Android Training lesson <a href=
"http://developer.android.com/training/basics/fragments/communicating.html" in the property of the property 
             ^st >Communicating with Other Fragments</a> for more information.
         public interface OnFragmentInteractionListener {
                   // TODO: Update argument type and name
                   void onFragmentInteraction(Uri uri);
         public void pesan toast ( final String pesan) {
                   Toast.makeText(getActivity(), pesan, Toast.LENGTH LONG).show();
          }
         class myikc recycler extends AsyncTask<String, String, String> {
                   @Override
                   protected String doInBackground(String... args) {
                              return null;
                    }
                   protected void onPostExecute(String file url) {
                              setData();
                             //setData2()
                    }
          }
         public void setData()
                   results.clear();
                   sr1 = new SearchResults();
                    sr1.set name("Archery");
                   sr1.set_age("23 years old");
                   srl.set_photId(R.drawable.hobby_archery_image);
                   results.add(sr1);
                   sr1 = new SearchResults();
                   sr1.set name("Coding");
                   sr1.set age("24 years old");
                   srl.set photId(R.drawable.hobby coding image);
                   results.add(sr1);
```

```
sr1 = new SearchResults();
        sr1.set name("Jorney");
        sr1.set_age("25 years old");
        srl.set photId(R.drawable.hobby_journey_image);
        results.add(sr1);
        RecyclerView recyclerView=(RecyclerView)
getView().findViewById(R.id.rv);
        recyclerView.setHasFixedSize(true);
        MyCustomAdapter mAdapter = new MyCustomAdapter(results);
        RecyclerView.LayoutManager mLayoutManager = new
LinearLayoutManager(getContext());
        recyclerView.setLayoutManager(mLayoutManager);
        recyclerView.setAdapter(mAdapter);
   public void setData2()
        ArrayList searchHobby = new ArrayList<SearchHobby>();
        searchHobby.add(new SearchHobby("Reading", "26 tahun",
R.drawable.hobby reading image));
        searchHobby.add(new SearchHobby("Ridding", "27 tahun",
R.drawable.hobby_ridding_image));
        searchHobby.add(new SearchHobby("Swimming", "28 tahun",
R.drawable.hobby swimming image));
        RecyclerView recyclerView=(RecyclerView)
getView().findViewById(R.id.rv);
        recyclerView.setHasFixedSize(true);
        MyCustomAdapter2 mAdapter2 = new MyCustomAdapter2 (searchHobby);
        RecyclerView.LayoutManager mLayoutManager2 = new
LinearLayoutManager(getContext());
        recyclerView.setLayoutManager(mLayoutManager2);
        recyclerView.setAdapter(mAdapter2);
    public class SearchHobby {
       private String name = "";
        private String age = "";
        private int photoId;
        SearchHobby(String name, String age, int photoId) {
            this.name = name;
            this.age = age;
            this.photoId = photoId;
        //----name
        public void set name(String name) {
            this.name = name;
        public String get name() {
            return name;
        //---age
        public void set_age(String age) {
            this.age = age;
```

Dokumen Aplikasi Ver 1.0 Google Material CardView dan RecyclerView IKC

```
public String get_age() {
            return age;
        //----photoId
        public void set_photId(int photoId) {
            this.photoId = photoId;
        public int get_photoId() {
            return photoId;
    public class SearchResults {
       private String name = "";
        private String age = "";
       private int photoId;
        //----name
        public void set_name(String name) {
            this.name = name;
        public String get_name() {
           return name;
        //---age
        public void set_age(String age) {
            this.age = age;
        public String get_age() {
           return age;
        //----photoId
        public void set photId(int photoId) {
            this.photoId = photoId;
        public int get photoId() {
           return photoId;
    }
   public class MyCustomAdapter extends
RecyclerView.Adapter<MyCustomAdapter.MyViewHolder> {
        private ArrayList<SearchResults> searchResults;
        public class MyViewHolder extends RecyclerView.ViewHolder {
            public TextView name, age;
            public ImageView photo;
            public CardView cvMain;
            public Button btnLike,btnSave;
            public MyViewHolder(View view) {
                super(view);
                name = (TextView) view.findViewById(R.id.person_name);
                age = (TextView) view.findViewById(R.id.person_age);
                photo = (ImageView) view.findViewById(R.id.person photo);
                cvMain = (CardView) view.findViewById(R.id.cv);
                btnSave = (Button)
view.findViewById(R.id.button_save_card);
```

Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

```
btnLike = (Button)
view.findViewById(R.id.button like card);
           }
        }
        public MyCustomAdapter(ArrayList<SearchResults> searchResults) {
            this.searchResults = searchResults;
        }
        @Override
       public MyViewHolder onCreateViewHolder(ViewGroup parent, int
viewType) {
            View itemView = LayoutInflater.from(parent.getContext())
                    .inflate (R.layout. fragment frg cards android, parent,
false);
            return new MyViewHolder(itemView);
        }
        @Override
        public void onBindViewHolder(MyViewHolder holder, int position) {
            final SearchResults sr = searchResults.get(position);
            holder.name.setText(sr.get name());
            holder.age.setText(sr.get_age());
            holder.photo.setImageResource(sr.get_photoId());
            holder.cvMain.setOnClickListener(new View.OnClickListener() {
                public void onClick(View v) {
                    // do something
                    pesan toast(sr.get name());
            });
            holder.btnLike.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    // do something
                    pesan toast("Clik button Like : "+sr.get name());
                }
            });
            holder.btnSave.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                 // do something
              pesan_toast("Clik button Save : "+sr.get_name() + "
               setData2();
        }
        @Override
        public int getItemCount() {
            return searchResults.size();
        }
```

} public class MyCustomAdapter2 extends RecyclerView.Adapter<MyCustomAdapter2.MyViewHolder> { private ArrayList<SearchHobby> searchHobby; public class MyViewHolder extends RecyclerView.ViewHolder { public TextView name, age; public ImageView photo; public CardView cvMain; public Button btnLike,btnSave; public MyViewHolder(View view) { super(view); name = (TextView) view.findViewById(R.id.person\_name); age = (TextView) view.findViewById(R.id.person age); photo = (ImageView) view.findViewById(R.id.person photo); cvMain = (CardView) view.findViewById(R.id.cv); btnSave = (Button) view.findViewById(R.id.button save card); btnLike = (Button) view.findViewById(R.id.button like card); } } public MyCustomAdapter2(ArrayList<SearchHobby> searchHobby) { this.searchHobby = searchHobby; @Override public MyViewHolder onCreateViewHolder(ViewGroup parent, int viewType) { View itemView = LayoutInflater.from(parent.getContext()) .inflate (R.layout. fragment\_frg\_cards\_android, parent, false); return new MyViewHolder(itemView); } @Override public void onBindViewHolder(MyViewHolder holder, int position) { final SearchHobby sr2 = searchHobby.get(position); holder.name.setText(sr2.get name()); holder.age.setText(sr2.get age()); holder.photo.setImageResource(sr2.get\_photoId()); holder.cvMain.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { // do something pesan toast(sr2.get name()); }); holder.btnLike.setOnClickListener(new View.OnClickListener() { @Override public void onClick(View v) { // do something pesan toast("Clik button Like : "+sr2.get name());

});

e. Hal yang perlu diperhatikan dalam membuat RecyclerView adalah pembuatan MyCustomAdapter dan MyCustomAdapter2 dengan extends dari RecyclerView.Adapter. Adapter ini mengubah adapter yang biasa kita buat dengan extends BaseAdapter untuk ListView. Karena RecyclerView adalah ListView untuk Cards Marterial Design.

```
public class MyCustomAdapter extends
RecyclerView.Adapter<MyCustomAdapter.MyViewHolder> {
```

f. Pembutan ArrayList juga kita buat dua model class SearchResults dan SearchHobby. Pada SearchHobby kita tambahkan kode java sebagai berikut:

```
public class SearchHobby {
   private String name = "";
   private String age = "";
   private int photoId;
    SearchHobby(String name, String age, int photoId) {
        this.name = name;
        this.age = age;
        this.photoId = photoId;
    //----name
   public void set_name(String name) {
        this.name = name;
   public String get name() {
       return name;
    //----age
   public void set age(String age) {
        this.age = age;
   public String get age() {
       return age;
    }
```

```
//----photoId
    public void set photId(int photoId) {
        this.photoId = photoId;
    public int get photoId() {
        return photoId;
public class SearchResults {
   private String name = "";
   private String age = "";
   private int photoId;
    //---name
   public void set_name(String name) {
       this.name = name;
   public String get_name() {
       return name;
    //---age
   public void set age(String age) {
       this.age = age;
   public String get_age() {
       return age;
    //----photoId
   public void set photId(int photoId) {
       this.photoId = photoId;
   public int get_photoId() {
       return photoId;
}
```

g. Pemanggilan data dibuat dua model setData dan setData2 dengan pembagian tiga gambar untuk masing-masing setting Data sebagai berikut :

```
results.clear();

sr1 = new SearchResults();
sr1.set_name("Archery");
sr1.set_age("23 years old");
sr1.set_photId(R.drawable.hobby_archery_image);
results.add(sr1);

sr1 = new SearchResults();
sr1.set_name("Coding");
sr1.set_age("24 years old");
sr1.set_age("24 years old");
sr1.set_photId(R.drawable.hobby_coding_image);
results.add(sr1);

sr1 = new SearchResults();
```

Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

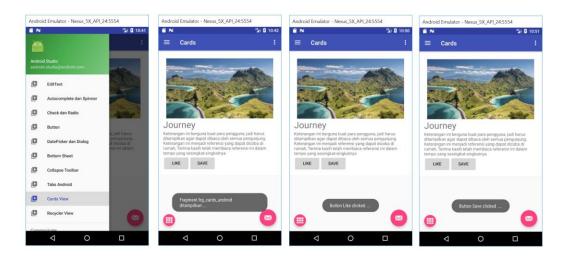
```
sr1.set name("Jorney");
    sr1.set age("25 years old");
    sr1.set_photId(R.drawable.hobby_journey_image);
    results.add(sr1);
   RecyclerView recyclerView=(RecyclerView)
getView().findViewById(R.id.rv);
    recyclerView.setHasFixedSize(true);
   MyCustomAdapter mAdapter = new MyCustomAdapter(results);
   RecyclerView.LayoutManager mLayoutManager = new
LinearLayoutManager(getContext());
   recyclerView.setLayoutManager(mLayoutManager);
   recyclerView.setAdapter(mAdapter);
public void setData2()
   ArrayList searchHobby = new ArrayList<SearchHobby>();
    searchHobby.add(new SearchHobby("Reading", "26 tahun",
R.drawable.hobby reading image));
   searchHobby.add(new SearchHobby("Ridding", "27 tahun",
R.drawable.hobby ridding image));
    searchHobby.add(new SearchHobby("Swimming", "28 tahun",
R.drawable.hobby_swimming_image));
   RecyclerView recyclerView=(RecyclerView)
getView().findViewById(R.id.rv);
   recyclerView.setHasFixedSize(true);
   MyCustomAdapter2 mAdapter2 = new MyCustomAdapter2(searchHobby);
   RecyclerView.LayoutManager mLayoutManager2 = new
LinearLayoutManager(getContext());
   recyclerView.setLayoutManager(mLayoutManager2);
   recyclerView.setAdapter(mAdapter2);
```

h. Pemanggilan setData2 dilakukan dengan click button Save pada pemanggilan pertama. Pemanggilan setData akan dilakukan dengan click button Save pada pemanggilan kedua. Selamat mencoba.

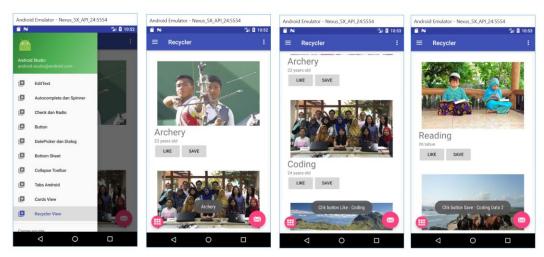
Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

## 3 Memanggil CardView dan RecyclerView dari Menu Drawer

a. Sekarang kita panggil CardView dari menu drawer "Card View". Akan muncul fragment frg\_cards\_android.java sebagai berikut :



- b. Kita dapat click button Like dan Save pada Cards akan memunculkan pesan\_toast sesuai dengan button tersebut yang diaturs dalam fragment frg\_cards\_android.java.
- c. Sekarang kita panggil Recycler View dari menu drawer "Recycler". Akan muncul fragment frg\_recycler\_view.java sebagai berikut :



- d. Pada setData akan muncul tiga kartu yang menunjukan hobby Archery, Coding dan Journey. Jika diclick button Save akan memunculkan tiga kartu yang lain Reading, Ridding Horse dan Swimming.
- e. Selamat mencoba sahabat ASIC.

Dokumen Aplikasi	Ver 1.0
Google Material CardView dan RecyclerView	IKC

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