

TUGAS
Rangkuman RecyclerView
Pemrograman Mobile



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JURUSAN TEKNOLOGI INFORMASI
PROGRAM STUDI TEKNIK INFORMATIKA
POLITEKNIK NEGERI MALANG

1. Menyeting Build.Gradle

```
1  apply plugin: 'com.android.application'
2
3  android {
4      compileSdkVersion 28
5      defaultConfig {
6          applicationId "com.hoga.recyclerview"
7          minSdkVersion 16
8          targetSdkVersion 28
9          versionCode 1
10         versionName "1.0"
11         testInstrumentationRunner "android.support.test.runner.AndroidJUnitRunner"
12     }
13     buildTypes {
14         release {
15             minifyEnabled false
16             proguardFiles getDefaultProguardFile('proguard-android.txt'), 'proguard-rules.pro'
17         }
18     }
19 }
20
21 dependencies {
22     implementation fileTree(dir: 'libs', include: ['*.jar'])
23     implementation 'com.android.support:cardview-v7:28.0.+'
24     implementation 'com.android.support:recyclerview-v7:28.0.+'
25     implementation 'com.android.support:appcompat-v7:28.0.0-rc02'
26     implementation 'com.android.support.constraint:constraint-layout:1.1.3'
27     testImplementation 'junit:junit:4.12'
28     androidTestImplementation 'com.android.support.test:runner:1.0.2'
29     androidTestImplementation 'com.android.support.test.espresso:espresso-core:3.0.2'
30 }
31
```

2. Membuat widget.RecyclerView pada activity_main.xml

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      xmlns:app="http://schemas.android.com/apk/res-auto"
4      xmlns:tools="http://schemas.android.com/tools"
5      android:layout_width="match_parent"
6      android:layout_height="match_parent"
7      android:padding="10dp"
8      tools:context=".MainActivity">
9
10     <android.support.v7.widget.RecyclerView
11         android:id="@+id/rv"
12         android:layout_width="match_parent"
13         android:layout_height="match_parent">
14
15     </android.support.v7.widget.RecyclerView>
16
17 </LinearLayout>
```

3. Setelah itu kita membuat list_data.xml yang nantinya itu sebagai isian dari widget.RecyclerView

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="wrap_content">
5
6      <RelativeLayout
7          android:layout_width="match_parent"
8          android:layout_height="wrap_content"
9          android:padding="16dp">
10
11          <TextView
12              android:id="@+id/tvNama"
13              android:layout_width="wrap_content"
14              android:layout_height="wrap_content"
15              android:textSize="19dp"
16              android:textStyle="bold">
17
18              <TextView
19                  android:id="@+id/tvKelamin"
20                  android:layout_width="wrap_content"
21                  android:layout_height="wrap_content"
22                  android:textSize="15dp"
23                  android:textStyle="italic"
24                  android:layout_below="@+id/tvNama">
25
26          </RelativeLayout>
27      <!--<android.support.v7.widget.CardView-->
28  </RelativeLayout>
```

4. Selanjutnya yaitu membuat Data.java yang berisikan nama dan kelamin(jenis kelamin), sebagai isi dari RecyclerView.

```
1 package com.hoga.recyclerview.Model;
2
3 public class Data {
4     public String nama;
5
6     public String kelamin;
7
8     public Data (String nama, String kelamin) {
9         this.nama = nama;
10        this.kelamin = kelamin;
11    }
12
13    public String getName() { return nama; }
14
15    public void setName(String nama) { this.nama = nama; }
16
17    public String getKelamin() { return kelamin; }
18
19    public void setKelamin(String kelamin) { this.kelamin = kelamin; }
20 }
21
22
```

5. Lalu bukalah MainActivity.java, kemudian ubahlah isian data, yang kemudian akan ditampilkan pada tampilan daftar.

```
9 import java.util.List;
10
11 public class MainActivity extends AppCompatActivity {
12     private RecyclerView rView;
13     private RecyclerView.LayoutManager lManager;
14     private RecyclerView.Adapter adapter;
15     private List<Data> myData = new ArrayList<>();
16     private Data data;
17     @Override
18     protected void onCreate(Bundle savedInstanceState) {
19         super.onCreate(savedInstanceState);
20         setContentView(R.layout.activity_main);
21         rView=findViewById(R.id.rv);
22         rView.setHasFixedSize(true);
23
24         lManager = new LinearLayoutManager( context: this);
25         rView.setLayoutManager(lManager);
26
27         data = new Data( nama: "Iftul", kelamin: "Semi Laki-Laki");
28         myData.add(data);
29         data = new Data( nama: "Pirza", kelamin: "Semi Laki-Laki");
30         myData.add(data);
31         data = new Data( nama: "Asepp", kelamin: "Laki-Laki Tulen");
32         myData.add(data);
33         data = new Data( nama: "Madon", kelamin: "Semi Laki-Laki");
34         myData.add(data);
35         data = new Data( nama: "Tya", kelamin: "Semi Laki-Laki");
36         myData.add(data);
37         data = new Data( nama: "Marsu", kelamin: "Semi Laki-Laki");
38         myData.add(data);
39         data = new Data( nama: "Maul", kelamin: "Semi Laki-Laki");
40         myData.add(data);
41
42         adapter = new Adapter(myData);
43         rView.setAdapter(adapter);
44     }
45 }
```

6. Kemudian buatlah Adapter. Pada onCreateViewHolder() akan memanggil list_data.xml yang kemudian akan di masukkan ke dalam activity_main.xml.

```
14 public class Adapter extends RecyclerView.Adapter<Adapter.DataViewHolder> {
15
16     public List<Data> myData;
17     public Adapter (List<Data>myData){
18
19         this.myData=myData;
20     }
21
22     @NonNull
23     @Override
24     public DataViewHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {
25         View v = LayoutInflater.from(viewGroup.getContext()).inflate(R.layout.list_data,viewGroup, attachToRoot: false);
26         DataViewHolder DVH = new DataViewHolder(v);
27         return DVH;
28     }
29
30     @Override
31     public void onBindViewHolder(@NonNull DataViewHolder dataViewHolder, int i) {
32         Data data = myData.get(i);
33         dataViewHolder.nama.setText(data.getNama());
34         dataViewHolder.kelamin.setText(data.getKelamin());
35     }
36     @Override
37     public int getItemCount() {
38         return myData.size();
39     }
40
41     public class DataViewHolder extends RecyclerView.ViewHolder {
42
43         TextView nama,kelamin;
44         public DataViewHolder(@NonNull View itemView) {
45             super(itemView);
46
47             nama = itemView.findViewById(R.id.tvNama);
48             kelamin = itemView.findViewById(R.id.tvKelamin);
49         }
50     }
51 }
```

7. Hasil yang akan didapat setelah di run.

