



<b>Nama</b>	:	Muhamad Al Kausar Ramadhan
<b>Nim</b>	:	2041720193
<b>Kelas</b>	:	TI 3A

## PRATIUM 1

### 1. activity\_main.xml

```
1      <?xml version="1.0" encoding="utf-8"?>
2      <androidx.constraintlayout.widget.ConstraintLayout
3          xmlns:android="http://schemas.android.com/apk/res/android"
4          xmlns:app="http://schemas.android.com/apk/res-auto"
5          xmlns:tools="http://schemas.android.com/tools"
6          android:layout_width="match_parent"
7          android:layout_height="match_parent"
8          tools:context=".MainActivity">
9
10         <androidx.recyclerview.widget.RecyclerView
11             android:id="@+id/rvSuperHero"
12             app:layout_constraintLeft_toLeftOf="parent"
13             app:layout_constraintRight_toRightOf="parent"
14             app:layout_constraintTop_toTopOf="parent"
15             app:layout_constraintBottom_toBottomOf="parent"
16             android:layout_width="match_parent"
17             android:layout_height="match_parent"
18             tools:layout_editor_absoluteX="8dp"
19             tools:layout_editor_absoluteY="8dp" />
20
21     </androidx.constraintlayout.widget.ConstraintLayout>
```



## 2. item\_super\_hero.xml

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
3      android:layout_width="match_parent"
4      android:layout_height="50dp"
5      android:orientation="vertical">
6
7      <TextView
8          android:gravity="center"
9          android:id="@+id/heroName"
10         android:layout_width="match_parent"
11         android:layout_height="wrap_content"
12         android:text="Hero Name"
13         android:textSize="20sp" />
14
15  </LinearLayout>
```

## 3. models/SuperHero.java

```
1  package com.example.muhamadaalkausarramadhan.models;
2
3  public class SuperHero {
4
5      public String heroName;
6
7      public SuperHero(String heroName) { this.heroName = heroName; }
8
9
10     public String getHeroName() { return heroName; }
11
12
13     public void setHeroName(String heroName) { this.heroName = heroName; }
14
15
16     |
17
18 }
19
```



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#### 4. adapters/SuperHeroAdapters.java

```
1 package com.example.muhamadalkausarramadhan.adapters;
2
3 import android.content.Context;
4 import android.view.LayoutInflater;
5 import android.view.View;
6 import android.view.ViewGroup;
7 import android.widget.TextView;
8
9 import androidx.annotation.NonNull;
10 import androidx.recyclerview.widget.RecyclerView;
11
12 import com.example.muhamadalkausarramadhan.R;
13 import com.example.muhamadalkausarramadhan.models.SuperHero;
14
15 import java.util.List;
16
17 public class SuperHeroAdapter extends RecyclerView.Adapter<SuperHeroAdapter.MyViewHolder> {
18     List<SuperHero> heroList;
19
20     public SuperHeroAdapter(List<SuperHero> heroList) { this.heroList = heroList; }
21
22     @NonNull
23     @Override
24     public SuperHeroAdapter.MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
25         //object context diambil dari parent
26         Context context = parent.getContext();
27         //object context digunakan untuk membuat object LayoutInflater
28         LayoutInflater inflater = LayoutInflater.from(context);
29         //object LayoutInflater digunakan untuk membuat object view yang merupakan hasil inflate layout (mengubungkan adapter dengan layout)
30         View superHeroView = inflater.inflate(R.layout.item_super_hero, parent, attachToRoot: false);
31         //object superHeroView digunakan untuk membuat object viewHolder
32         MyViewHolder viewHolder = new MyViewHolder(superHeroView);
33         return viewHolder;
34     }
35 }
```

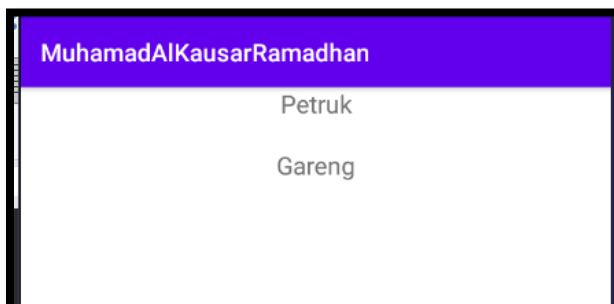
```
36
37
38 @Override
39 public void onBindViewHolder(@NonNull SuperHeroAdapter.MyViewHolder holder, int position) {
40     //ambil satu item hero
41     SuperHero hero = heroList.get(position);
42     //set text heroName berdasarkan data dari model hero
43     holder.heroName.setText(hero.getHeroName());
44 }
45
46 @Override
47 public int getItemCount() { return heroList.size(); }
48
49 public class MyViewHolder extends RecyclerView.ViewHolder {
50     public TextView heroName;
51     public MyViewHolder(@NonNull View itemView) {
52         super(itemView);
53         //variabel disesuaikan dengan layout, karena pada layout item_super_hero terdapat satu
54         //TextView maka pada kode program ini dibuat TextView yang melakukan findViewById ke id layout yang bersesuaian
55         heroName = itemView.findViewById(R.id.heroName);
56     }
57 }
58
59 }
60 }
```



## 5. MainActivity.java

```
1 package com.example.muhamadalkausarramadhan;
2
3 import ...
4
14
15 public class MainActivity extends AppCompatActivity {
16     // instansi RecyclerView
17     RecyclerView rvSuperHero;
18     // instansi list superhero
19     List<SuperHero> listSuperHero = new ArrayList<>();
20
21     @Override
22     protected void onCreate(Bundle savedInstanceState) {
23         super.onCreate(savedInstanceState);
24         setContentView(R.layout.activity_main);
25         //menyambungkan rvSuperHero ke layout
26         rvSuperHero = findViewById(R.id.rvSuperHero);
27         //Membuat object hero
28         SuperHero hero = new SuperHero( heroName: "Petruk");
29         //menambahkan hero ke listSuperHero
30         listSuperHero.add(hero);
31         //membuat object hero baru
32         hero = new SuperHero( heroName: "Gareng");
33         //menambahkan hero baru ke listSuperhero
34         listSuperHero.add(hero);
35         // instansi adapter
36         SuperHeroAdapter superHeroAdapter = new SuperHeroAdapter(listSuperHero);
37         // set adapter dan layout manager
38         rvSuperHero.setAdapter(superHeroAdapter);
39         rvSuperHero.setLayoutManager(new LinearLayoutManager( context: this));
40     }
41 }
```

## 6. Tampilan





## 7. Gradle

```
dependencies {  
  
    implementation 'androidx.appcompat:appcompat:1.5.1'  
    implementation 'com.google.android.material:material:1.6.1'  
    implementation 'androidx.constraintlayout:constraintlayout:2.1.4'  
    implementation 'androidx.recyclerview:recyclerview:1.1.0'  
    testImplementation 'junit:junit:4.13.2'  
    androidTestImplementation 'androidx.test.ext:junit:1.1.3'  
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.4.0'  
}
```



## PRATIKUM 2

### 1. activity\_main.xml

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout 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      tools:context=".MainActivity">
8
9      <androidx.recyclerview.widget.RecyclerView
10         android:id="@+id/rvContact"
11         android:layout_width="match_parent"
12         android:layout_height="match_parent"
13         android:layout_marginBottom="8dp"
14         android:layout_marginEnd="8dp"
15         android:layout_marginStart="8dp"
16         android:layout_marginTop="8dp"
17         app:layout_constraintBottom_toBottomOf="parent"
18         app:layout_constraintEnd_toEndOf="parent"
19         app:layout_constraintStart_toStartOf="parent"
20         app:layout_constraintTop_toTopOf="parent" >
21
22     </androidx.recyclerview.widget.RecyclerView>
23
24 </androidx.constraintlayout.widget.ConstraintLayout>
```



## 2. item\_contact.xml

```
1  <?xml version="1.0" encoding="utf-8"?>
2  <androidx.constraintlayout.widget.ConstraintLayout
3      xmlns:android="http://schemas.android.com/apk/res/android"
4      xmlns:app="http://schemas.android.com/apk/res-auto"
5      xmlns:tools="http://schemas.android.com/tools"
6      android:layout_width="match_parent"
7      android:layout_height="wrap_content">
8
9      <ImageView
10         android:id="@+id/imageContact"
11         android:layout_width="75dp"
12         android:layout_height="74dp"
13         android:layout_marginStart="8dp"
14         android:layout_marginLeft="8dp"
15         android:layout_marginTop="16dp"
16         android:layout_marginBottom="8dp"
17         android:src="@mipmap/ic_launcher"
18         app:layout_constraintBottom_toBottomOf="parent"
19         app:layout_constraintStart_toStartOf="parent"
20         app:layout_constraintTop_toTopOf="parent" />
```

```
22  //text view nama kontak
23  <TextView
24      android:id="@+id/txtName"
25      android:layout_width="0dp"
26      android:layout_height="wrap_content"
27      android:layout_marginStart="8dp"
28      android:layout_marginTop="16dp"
29      android:layout_marginEnd="8dp"
30      android:text="Nama"
31      android:textSize="20dp"
32      app:layout_constraintEnd_toEndOf="parent"
33      app:layout_constraintStart_toStartOf="@+id/guideline3"
34      app:layout_constraintTop_toTopOf="parent" />
35
36  //text view no telepon
37  <TextView
38      android:id="@+id/txtPhone"
39      android:layout_width="0dp"
40      android:layout_height="wrap_content"
41      android:layout_marginBottom="8dp"
42      android:layout_marginEnd="8dp"
43      android:layout_marginStart="8dp"
44      android:text="Nomor Telepon"
45      app:layout_constraintBottom_toBottomOf="parent"
46      app:layout_constraintEnd_toEndOf="parent"
47      app:layout_constraintStart_toStartOf="@+id/guideline3"
48      app:layout_constraintTop_toBottomOf="@+id/txtName" />
```



```
50 <androidx.constraintlayout.widget.Guideline
51     android:id="@+id/guideline3"
52     android:layout_width="wrap_content"
53     android:layout_height="wrap_content"
54     android:orientation="vertical"
55     app:layout_constraintGuide_begin="101dp" />
56
57 </androidx.constraintlayout.widget.ConstraintLayout>
```

### 3. Contact.java

```
1 package com.example.muhamadalkausarramadhan_p2;
2
3 public class Contact {
4
5     private String name;
6     private String phone;
7     private String imageUrl;
8
9     public Contact(String name, String phone, String imageUrl) {
10         this.name = name;
11         this.phone = phone;
12         this.imageUrl = imageUrl;
13     }
14
15     public String getName() {
16         return name;
17     }
18
19     public void setName(String name) { this.name = name; }
20
21     public String getPhone() { return phone; }
22
23     public void setPhone(String phone) { this.phone = phone; }
24
25     public String getImageUrl() { return imageUrl; }
26
27     public void setImageUrl(String imageUrl) { this.imageUrl = imageUrl; }
28 }
```





#### 4. ContactAdapter.java

```
1 package com.example.muhamadaikausarramadhan_p2;
2
3 import ...
4
16
17 public class ContactAdapter extends RecyclerView.Adapter<ContactAdapter.ContactViewHolder>{
18
19     private List<Contact> listContact = new ArrayList<>();
20
21     public ContactAdapter(List<Contact> listContact) { this.listContact = listContact; }
22
23
24     private OnContactClickListener listener;
25
26
27     public interface OnContactClickListener {
28         public void onClick(View view, int position);
29     }
30
31     public void setListener(OnContactClickListener listener) { this.listener = listener; }
32
33
34     @NonNull
35     @Override
36     public ContactViewHolder onCreateViewHolder(@NonNull ViewGroup viewGroup, int i) {
37         View vh = LayoutInflater.
38             from(viewGroup.getContext()).
39             inflate(R.layout.item_contact, viewGroup, attachToRoot false);
40         ContactViewHolder viewHolder = new ContactViewHolder(vh);
41         return viewHolder;
42     }
43 }
```



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```
45      @Override
46      public void onBindViewHolder(@NonNull ContactViewHolder contactViewHolder, int i) {
47
48          Contact item = listContact.get(i);
49          contactViewHolder.txtPhone.setText(item.getPhone());
50          contactViewHolder.txtName.setText(item.getName());
51          Picasso.get().load(item.getImageUrl())
52              .placeholder(R.drawable.ic_launcher_background)
53              .into(contactViewHolder.imageContact);
54      }
55
56      @Override
57      public int getItemCount() { return listContact.size(); }
58
59
60      public class ContactViewHolder extends RecyclerView.ViewHolder {
61          public ImageView imageContact;
62          public TextView txtName,txtPhone;
63
64
65          public ContactViewHolder(@NonNull View itemView) {
66              super(itemView);
67              imageContact = itemView.findViewById(R.id.imageContact);
68              txtName = itemView.findViewById(R.id.txtName);
69              txtPhone = itemView.findViewById(R.id.txtPhone);
70              itemView.setOnClickListener(new View.OnClickListener() {
71                  @Override
72                  public void onClick(View v) { listener.onClick(v, getAdapterPosition()); }
73              });
74          }
75      }
76
77  }
78  }
```



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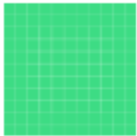
## 5. MainActivity.java

```
1 package com.example.muhamadalkausarramadhan_p2;
2
3 import ...
4
13
14 public class MainActivity extends AppCompatActivity implements ContactAdapter.OnContactClickListener {
15
16     public RecyclerView rv;
17     public ContactAdapter contactAdapter;
18     public RecyclerView.LayoutManager layoutManager;
19     public List<Contact> listContact = new ArrayList<>();
20
21     @Override
22     protected void onCreate(Bundle savedInstanceState) {
23         super.onCreate(savedInstanceState);
24         setContentView(R.layout.activity_main);
25
26         rv = findViewById(R.id.rvContact);
27
28         listContact.add(new Contact( name: "Iron Man",
29             phone: "102018308",
30             imageUrl: "https://cdn4.iconfinder.com/data/icons/famous-characters-add-on-vol-1-flat/48/Famous_Character_-_Add_On_1-14-512.png"));
31
32         listContact.add(new Contact( name: "Bat Man",
33             phone: "102018309",
34             imageUrl: "https://cdn4.iconfinder.com/data/icons/famous-characters-add-on-vol-1-flat/48/Famous_Character_-_Add_On_1-22-512.png"));
35
36         listContact.add(new Contact( name: "Groot",
37             phone: "102018307",
38             imageUrl: "https://cdn4.iconfinder.com/data/icons/famous-characters-add-on-vol-1-flat/48/Famous_Character_-_Add_On_1-21-512.png"));
39
40         listContact.add(new Contact( name: "Sonic",
41             phone: "102018301",
42             imageUrl: "https://cdn4.iconfinder.com/data/icons/famous-characters-add-on-vol-1-flat/48/Famous_Character_-_Add_On_1-26-512.png"));
43
44
45         contactAdapter = new ContactAdapter(listContact);
46         contactAdapter.setListener(this);
47         layoutManager = new LinearLayoutManager(getApplicationContext());
48         rv.setAdapter(contactAdapter);
49         rv.setLayoutManager(layoutManager);
50
51     }
52
53     @Override
54     public void onClick(View view, int position) {
55         Contact contact = listContact.get(position);
56         Toast.makeText( context: this, contact.getName(), Toast.LENGTH_LONG)
57             .show();
58     }
59 }
```



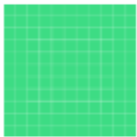
## 6. Tampilan

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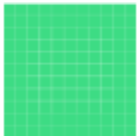
Iron Man

102018308



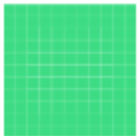
Bat Man

102018309



Groot

102018307



Sonic

102018301

## 7. Gradle

```
dependencies {  
  
    implementation 'androidx.appcompat:appcompat:1.5.1'  
    implementation 'com.google.android.material:material:1.6.1'  
    implementation 'androidx.constraintlayout:constraintlayout:2.1.4'  
    implementation 'com.squareup.picasso:picasso:2.71828'  
    testImplementation 'junit:junit:4.13.2'  
    androidTestImplementation 'androidx.test.ext:junit:1.1.3'  
    androidTestImplementation 'androidx.test.espresso:espresso-core:3.4.0'  
}
```



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## LINK GITHUB

<https://github.com/kausar-vento/tugas-pembelajaran-mesin-minggu4.git>