# TUGAS 4 PEMROGRAMAN MOBILE



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D4 TEKNIK INFORMATIKA

TEKNOLOGI INFORMASI

POLITEKNIK NEGERI MALANG

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#### Praktikum 1

# Class SuperHero

```
package polinema.ac.id.RafliAlfian.models;

public class SuperHero {
    public String heroName;

    public SuperHero(String heroName) {
        this.heroName = heroName;
    }

    public String getHeroName() {
        return heroName;
    }

    public void setHeroName(String heroName) {
        this.heroName = heroName;
    }
}
```

#### Class SuperHeroAdapter

```
package polinema.ac.id.RafliAlfian.adapters;
import android.content.Context;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
import android.widget.TextView;
import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;
import java.util.List;
import polinema.ac.id.RafliAlfian.R;
import polinema.ac.id.RafliAlfian.R;
import polinema.ac.id.RafliAlfian.models.SuperHero;
public class SuperHeroAdapter extends
RecyclerView.Adapter<SuperHeroAdapter.MyViewHolder>{
    List<SuperHero> heroList;

    public SuperHeroAdapter(List<SuperHero> heroList) {
        this.heroList = heroList;
    }

    @NonNull
    @Override
    public SuperHeroAdapter.MyViewHolder onCreateViewHolder(@NonNull
ViewGroup parent, int viewType) {
        //object context diambil dari parent
        Context context = parent.getContext();
        //object context digunakan untuk membuat object layoutInflater
        LayoutInflater layoutInflater = LayoutInflater.from(context);
        //object layoutInflater digunakan untuk membuat object view yang
merupakan hasil inflate layout (mengubungkan adapter degnan layout)
        View superHeroView =
layoutInflater.inflate(R.layout.item super hero, parent, false);
```

```
//object superHeroView digunakan untuk membuat object viewHolder
    MyViewHolder viewHolder = new MyViewHolder(superHeroView);
    return viewHolder;
}

@Override
public void onBindViewHolder(@NonNull SuperHeroAdapter.MyViewHolder
holder, int position) {
    //ambil satu item hero
    SuperHero hero = heroList.get(position);
    //set text heroName berdasarkan data dari model hero
    holder.heroName.setText(hero.getHeroName());
}

@Override
public int getItemCount() {
    return heroList.size();
}

public class MyViewHolder extends RecyclerView.ViewHolder {
    public TextView heroName;
    public MyViewHolder(@NonNull View itemView) {
        super(itemView);
        //variabel disesuaikan dengan layout, karena pada layout
item_super_hero terdapat satu
        //TextView maka pada kode program ini dibuat satu TextView yang
melakukan findViewById ke id layout yang bersesuaian
        heroName = itemView.findViewById(R.id.heroName);
    }
}
```

#### Class MainActivity

```
package polinema.ac.id.RafliAlfian;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import android.nanotation.SuppressLint;
import android.os.Bundle;
import java.util.List;
import java.util.ArrayList;
import polinema.ac.id.RafliAlfian.adapters.SuperHeroAdapter;
import polinema.ac.id.RafliAlfian.models.SuperHero;

public class MainActivity extends AppCompatActivity {
    //instansiasi Recyclerview
    RecyclerView rvSuperHero;
    //instansiasi list superhero
    List<SuperHero> listSuperHero = new ArrayList<>();
    @SuppressLint("WrongViewCast")
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        //menyambungkan rvSuperHero ke layout
```

```
rvSuperHero = findViewById(R.id.rvSuperHero);
    //Membuat object hero
    SuperHero hero = new SuperHero("Petruk");
    //menambahkan hero ke listSuperHero
    listSuperHero.add(hero);
    //membuat object hero baru
    hero = new SuperHero("Gareng");
    //menambahkan hero baru ke listSuperhero
    listSuperHero.add(hero);
    //Instansiasi Adapter
    SuperHeroAdapter superHeroAdapter = new
SuperHeroAdapter(listSuperHero);
    //set adapter dan layoutmanager
    rvSuperHero.setAdapter(superHeroAdapter);
    rvSuperHero.setLayoutManager(new LinearLayoutManager(this));
}
```

# Class Activity\_main\_xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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="match_parent"
    tools:context=".MainActivity">

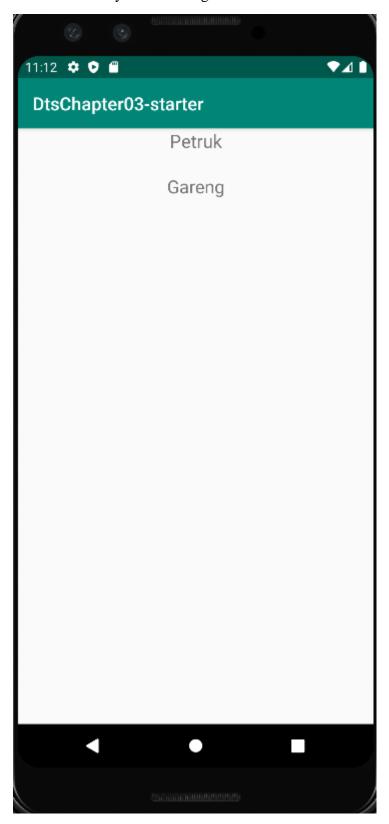
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/rvSuperHero"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintBottom_toBottomOf="parent"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        tools:layout_editor_absoluteX="8dp"
        tools:layout_editor_absoluteY="8dp" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

#### Class item super hero.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout_height="50dp">
    <TextView
        android:id="@+id/heroName"
        android:layout_width="match_parent"
        android:layout_width="wrap_content"
        android:text="Hero Name"
        android:textSize="20sp"
        tools:ignore="InvalidId" />
</LinearLayout>
```

Hasil demo Recycleview Sangat Sederhana



#### Praktikum 2

#### **Class Contact**

```
public void setName(String name) {
public void setPhone(String phone) {
public String getImageUrl() {
public void setImageUrl(String imageUrl) {
```

### Class ContactAdaptor

```
package id.primadev.RafliAlfian;
import android.support.w1.widget.RecyclerView;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ImageView;
import android.widget.TextView;
import com.squareup.picasso.Picasso;
import java.util.ArrayList;
import id.primadev.RafliAlfian.Models.Contact;
```

```
public ContactAdapter(List<Contact> listContact) {
public void setListener(OnContactClickListener listener) {
public void onBindViewHolder(@NonNull ContactViewHolder
            public void onClick(View v) {
```

```
});
}
}
```

# Class MainActivity

```
package id.primadev.RafliAlfian;
import android.support.v7.app.AppCompatActivity;
import id.primadev.RafliAlfian.Models.Contact;
   protected void onCreate(Bundle savedInstanceState) {
       super.onCreate(savedInstanceState);
       rv = findViewById(R.id.rvContact);
       layoutManager = new LinearLayoutManager(getApplicationContext());
```

# Class Activity\_main\_xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
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="match_parent"
    tools:context="id.primadev.RafliAlfian.MainActivity">

    <android.support.v7.widget.RecyclerView
        android:id="@+id/rvContact"
        android:layout_width="match_parent"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_marginBottom="8dp"
        android:layout_marginEnd="8dp"
        android:layout_marginTop="8dp"
        android:layout_marginTop="8dp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"

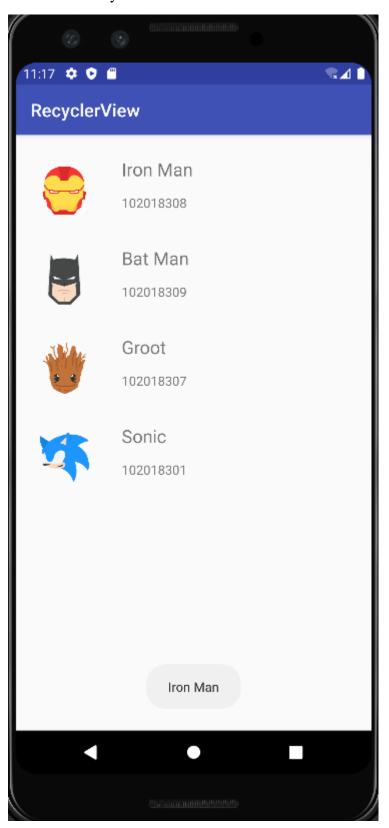
app:layout_constraintTop_toTopOf="parent"></android.support.v7.widget.RecyclerView>

</android.support.constraint.ConstraintLayout>
```

#### Class Item\_contact\_xml

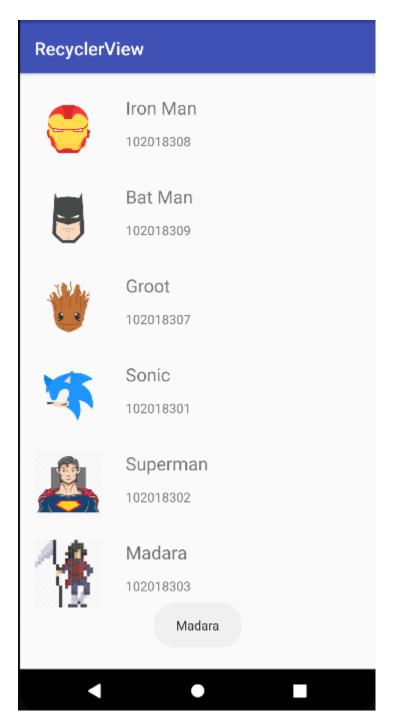
```
<TextView
</android.support.constraint.ConstraintLayout>
```

# Hasil demo Recycleview Sederhana



# **Tugas**

# Method onclick



Jadi method onclick berfungsi jika kita menekan salah satu icon maka akan muncul nama dari icon tersebut