

2 D4 - TEKKOM B

PRAKTIKUM 5



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Praktikum 5

Android Activities, Class & Object, Array

I. Tujuan Pembelajaran

1. Mahasiswa dapat menjelaskan dan menerapkan penggunaan `ListView`
2. Mahasiswa dapat menjelaskan mengenai penerapan Java Class dan Object
3. Mahasiswa dapat menjelaskan penerapan Java Array dan `ArrayAdapter`
4. Mahasiswa dapat menjelaskan dan menerapkan *implicit* Intents

II. Perangkat Praktikum

- PC atau Laptop
- Android Studio
- Android Device

III. Prosedur Percobaan

1. Prosedur praktikum kali ini, kalian akan melanjutkan aplikasi yang telah dikerjakan pada praktikum sebelumnya, dimana kalian telah membuat tiga `CardView` dan sudah dapat menghubungkan `MainActivity` ke `activity` baru pada masing-masing `CardView`
2. Berikutnya kalian akan membuat `ListView`, dimana saat memilih `user` masuk ke `CardView` 'starters', maka akan tampil daftar menu.
3. Buatlah Class baru yaitu Dish Class dalam file `Dish.java` :

```
public class Dish {
    String title;
    String desc;
    int price;

    Dish(String title, String desc, int price){
        this.title = title;
        this.desc = desc;
        this.price = price;
    }

    @NonNull
    @Override
    public String toString() {
        return title + " | " + price;
    }

    public String getTitle() {
        return title;
    }

    public String getDesc() {
        return desc;
    }
}
```

4. Buatlah Array pada StartersActivity.java untuk membuat daftar menu :
<https://www.name-generator.org.uk/food/>

```
ListView startersList = findViewById(R.id.list_view_starters);

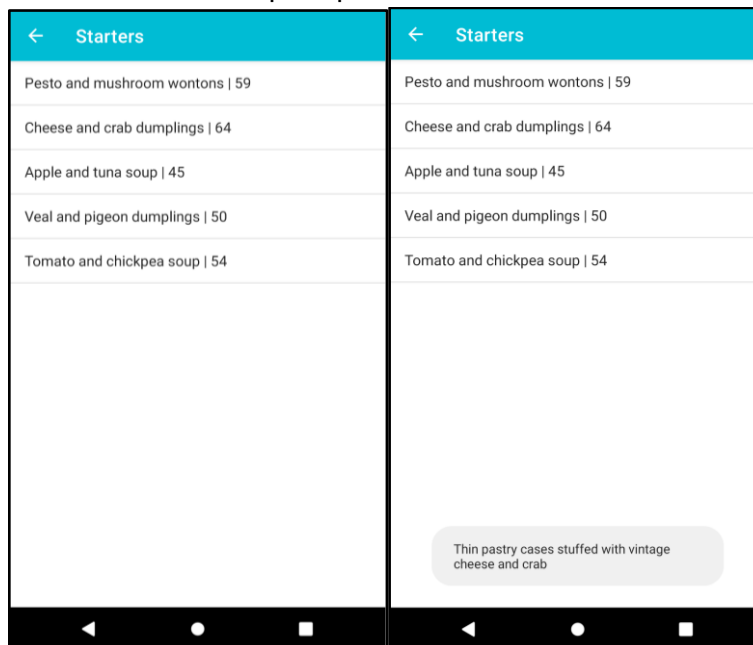
Dish[] dishes = {
    new Dish( title: "Pesto and mushroom wontons", desc: "Thin wonton cases stuffed with sun-dried tomato pesto and portobello mushroom", price: 59),
    new Dish( title: "Cheese and crab dumplings", desc: "Thin pastry cases stuffed with vintage cheese and crab", price: 64),
    new Dish( title: "Apple and tuna soup", desc: "Green apple and tuna combined into creamy soup", price: 45),
    new Dish( title: "Veal and pigeon dumplings", desc: "Thin pastry cases stuffed with veal and pigeon", price: 50),
    new Dish( title: "Tomato and chickpea soup", desc: "Plum tomatoes and fresh chickpea combined into chunky soup", price: 54)
};
```

5. Selanjutnya tambahkan ArrayAdapter untuk menampilkan daftar menu yang dimuat dalam Array pada StartersActivity.java :

```
ArrayAdapter<Dish> dishAdapter = new ArrayAdapter<>( context: this, android.R.layout.simple_list_item_1,dishes);
startersList.setAdapter(dishAdapter);

startersList.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
        Dish ds = dishAdapter.getItem(i);
        Toast toast = Toast.makeText(getApplicationContext(),ds.getDesc(),Toast.LENGTH_SHORT);
        toast.show();
    }
});
```

6. Kemudian akan tampil seperti berikut :



7. Selanjutnya kalian akan menerapkan *implicit intents* dimana dari *TextView* “our store”, *user* dapat menuju aplikasi GMaps yang akan menunjukkan ke suatu lokasi tertentu pada *map*, pada *MainActivity.java* :

<https://developer.android.com/guide/components/intents-common#Maps>

```
TextView locText = findViewById(R.id.text_view_loc);
locText.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent launchMapAppIntent = new Intent(Intent.ACTION_VIEW);
        launchMapAppIntent.setData(Uri.parse("geo:-7.273946852840151, 112.79371116759155?q=Politeknik+Elektronika+Negeri+Surabaya"));
        startActivity(launchMapAppIntent);
    }
});
```

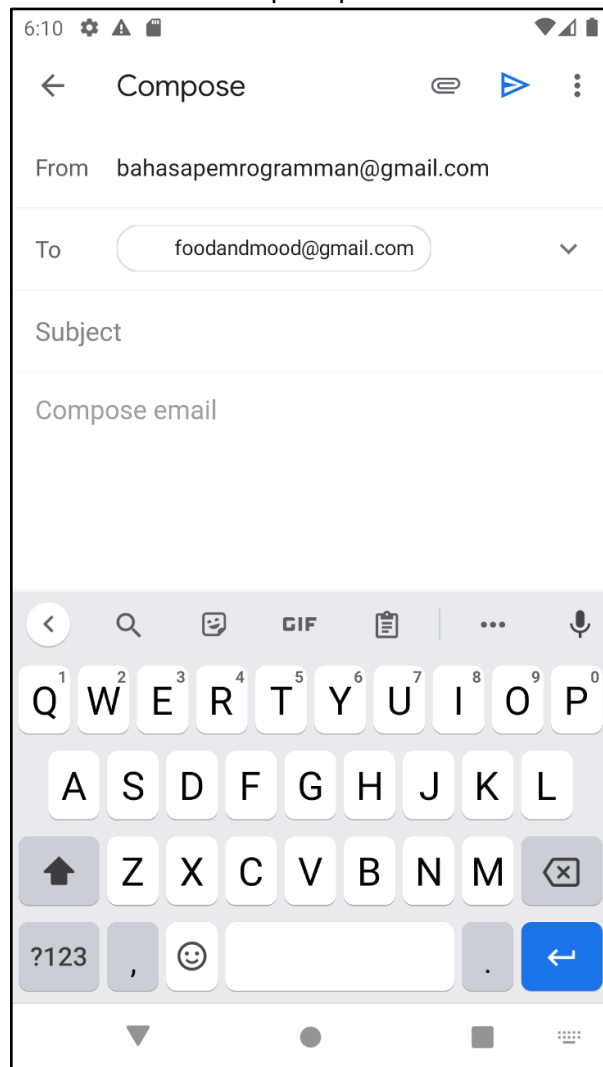
8. Kemudian akan tampil seperti berikut :



9. Selanjutnya dari *textView* “order now”, *user* dapat menuju aplikasi GMail yang memungkinkan untuk menulis dan mengirimkan email, pada MainActivity.java :
- <https://developer.android.com/guide/components/intents-common#ComposeEmail>

```
TextView orderText = findViewById(R.id.text_view_order);
orderText.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent launchEmailAppIntent = new Intent(Intent.ACTION_SENDTO);
        launchEmailAppIntent.setData(Uri.parse("mailto:foodandmood@gmail.com"));
        startActivity(launchEmailAppIntent);
    }
});
```

10. Kemudian akan tampil seperti berikut :



11. Pada AndroidManifest.xml > *intent filter*

```

<activity
    android:name="com.example.foodandmood.MainActivity"
    android:exported="true" >
    <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <action android:name="android.intent.action.SENDTO" />
        <data android:scheme="mailto" />
        <data android:scheme="geo" />
        <category android:name="android.intent.category.LAUNCHER" />
    </intent-filter>
</activity>
</application>

</manifest>

```

IV. Hasil Percobaan

- Source Code
 - MainActivity.java

```

package com.example.praktikum4;

import androidx.appcompat.app.AppCompatActivity;
import androidx.cardview.widget.CardView;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    CardView epep, emel, ninja;
    TextView locText, orderText;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        epep = findViewById(R.id.CardViewIntent_1);
        emel = findViewById(R.id.CardViewIntent_2);
        ninja = findViewById(R.id.CardViewIntent_3);
        locText = findViewById(R.id.text_view_order);
        orderText = findViewById(R.id.textViewIntent_loc);

        epep.setOnClickListener(new View.OnClickListener() {
            @Override

```

```

        public void onClick(View view) {
            Intent List = new Intent(MainActivity.this, Epep.class);
            startActivity(List);
        }
    });

    emel.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent List2 = new Intent(MainActivity.this, Emel.class);
            startActivity(List2);
        }
    });

    ninja.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent List3 = new Intent(MainActivity.this, Ninja.class);
            startActivity(List3);
        }
    });

    locText.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent launchMapAppIntent = new Intent(Intent.ACTION_VIEW);
            launchMapAppIntent.setData(Uri.parse("geo:-7.273946852840151,112.79371116759155?q=Politeknik+Elektronika+Negeri+Surabaya"));
            startActivity(launchMapAppIntent);
        }
    });

    orderText.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent launchEmailAppIntent = new Intent(Intent.ACTION_VIEW);
            launchEmailAppIntent.setData(Uri.parse("http://www.instagram.com/sptianbgus"));
            startActivity(launchEmailAppIntent);
        }
    });
}
}

```

➤ Activity_main.xml

```

<?xml version="1.0" encoding="utf-8"?>

<ScrollView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

```

```

<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:padding="28dp">

    <TextView
        android:id="@+id/textViewIntent_Judul"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:fontFamily="sans-serif-condensed-medium"
        android:text="ASEP STORE"
        android:textSize="30sp" />

    <androidx.cardview.widget.CardView
        android:id="@+id/CardViewIntent_1"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="60dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <ImageView
                android:id="@+id/imageViewIntent_1"
                android:layout_width="200dp"
                android:layout_height="155dp"
                android:scaleType="centerCrop"
                android:src="@drawable/free_fire" />

            <TextView
                android:id="@+id/textViewIntent_1"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_marginTop="5dp"
                android:fontFamily="sans-serif-condensed-medium"
                android:gravity="center"
                android:text="Free Fire"
                android:textSize="10pt" />

        </LinearLayout>
    </androidx.cardview.widget.CardView>

    <androidx.cardview.widget.CardView
        android:id="@+id/CardViewIntent_2"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/CardViewIntent_1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="60dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"

```



```

        android:orientation="vertical">

        <ImageView
            android:id="@+id/imageViewIntent_2"
            android:layout_width="200dp"
            android:layout_height="155dp"
            android:scaleType="centerCrop"
            android:src="@drawable/mobile_legends" />

        <TextView
            android:id="@+id/textViewIntent_2"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginTop="5dp"
            android:fontFamily="sans-serif-condensed-medium"
            android:gravity="center"
            android:text="Mobile Legends"
            android:textSize="10pt" />
    </LinearLayout>
</androidx.cardview.widget.CardView>

<androidx.cardview.widget.CardView
    android:id="@+id/CardViewIntent_3"
    android:layout_width="200dp"
    android:layout_height="wrap_content"
    android:layout_below="@+id/CardViewIntent_2"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="60dp">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">

        <ImageView
            android:id="@+id/imageViewIntent_3"
            android:layout_width="200dp"
            android:layout_height="155dp"
            android:src="@drawable/ninja_heroes" />

        <TextView
            android:id="@+id/textViewIntent_3"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginTop="5dp"
            android:fontFamily="sans-serif-condensed-medium"
            android:gravity="center"
            android:text="Ninja Heroes"
            android:textSize="10pt" />
    </LinearLayout>
</androidx.cardview.widget.CardView>

<TextView
    android:id="@+id/textViewIntent_loc"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/CardViewIntent_3"

```

```

        android:layout_centerHorizontal="true"
        android:layout_marginTop="20dp"
        android:fontFamily="sans-serif-light"
        android:text="Instagram"
        android:textSize="10pt" />

        <TextView
            android:id="@+id/text_view_order"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_below="@+id/textViewIntent_loc"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="20dp"
            android:fontFamily="sans-serif-light"
            android:text="View Gmaps"
            android:textSize="10pt" />
    </RelativeLayout>
</ScrollView>

```

➤ Epep.java

```

package com.example.praktikum4;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;

public class Epep extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_epep);

        ListView startersList = findViewById(R.id.lstItem);
        Button btn = findViewById(R.id.btnNinja);

        Dish[] dishes = {
            new Dish("Promo 355 Amunisi", "Mendapatkan 155+200 Amunisi", 70000),
            new Dish("Promo 720 Amunisi", "Mendapatkan 600+120 Amunisi", 98000),
            new Dish("Promo 1080 Amunisi", "Mendapatkan 720+360 Amunisi", 145000),
            new Dish("Promo 1440 Amunisi", "Mendapatkan 1080+360 Amunisi", 195000),
            new Dish("Promo 2000 Amunisi", "Mendapatkan 1440+560 Amunisi", 245000)
        };
    }
}

```

```

Amunisi",270000),
        new Dish("Promo 2720 Amunisi","Mendapatkan 2000+720
Amunisi",350000),
        new Dish("Promo 3440 Amunisi","Mendapatkan 2720+720
Amunisi",450000),
        new Dish("Promo 4000 Amunisi","Mendapatkan 3440+560
Amunisi",520000),
        new Dish("Promo 6000 Amunisi","Mendapatkan 4000+2000
Amunisi",780000),
        new Dish("Promo Membership Mingguan","Mendapatkan 100 Amunisi
tiap hari",30000)

    };

    ArrayAdapter<Dish> dishAdapter = new ArrayAdapter<>(this,
android.R.layout.simple_list_item_1,dishes);
    startersList.setAdapter(dishAdapter);

    startersList.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> adapterView, View view,
int i, long l) {
            Dish ds = dishAdapter.getItem(i);
            Toast toast =
Toast.makeText(getApplicationContext(),ds.getDesc(),Toast.LENGTH_LONG);
            toast.show();
        }
    });

    btn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent menu = new Intent(Epep.this,MainActivity.class);
            startActivity(menu);
        }
    });
}
}

```

➤ Activity_epep.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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_height="match_parent"
    android:layout_width="match_parent"
    android:orientation="vertical">
    <!-- android:gravity="center">-->

```

```

<ImageView
    android:layout_width="match_parent"
    android:layout_height="300dp"
    android:src="@drawable/free_fire" />

<ListView
    android:id="@+id/lstItem"
    android:layout_width="match_parent"
    android:layout_height="350dp" />

<Button
    android:id="@+id/btnNinja"
    android:layout_width="match_parent"
    android:layout_height="50dp"
    android:text="Menu Utama" />

</LinearLayout>

```

➤ Dish.java

```

package com.example.test2;

import androidx.annotation.NonNull;

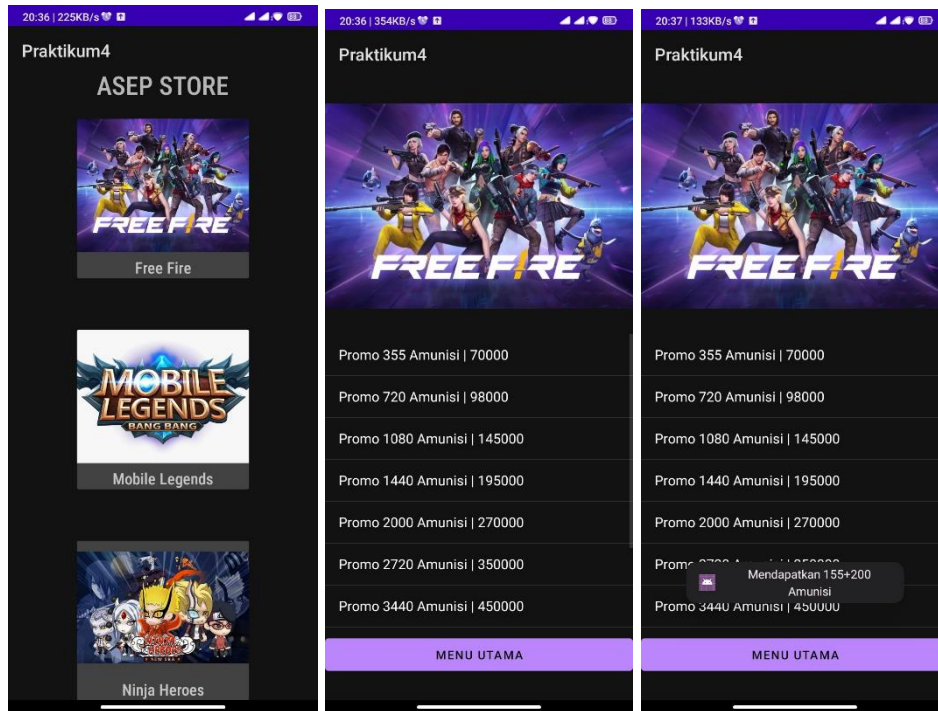
public class Dish {
    String title, desc;
    int price;

    Dish(String title, String desc, int price){
        this.title = title;
        this.desc = desc;
        this.price = price;
    }

    @NonNull
    @Override
    public String toString(){
        return title + " | " + price;
    }
    public String getTitle(){
        return title;
    }
    public String getDesc(){
        return desc;
    }
}

```

- Output



V. Hasil Tugas

- Source Code
 - MainActivity.java

```
package com.example.praktikum4;

import androidx.appcompat.app.AppCompatActivity;
import androidx.cardview.widget.CardView;

import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;

public class MainActivity extends AppCompatActivity {

    CardView epep, emel, ninja;
    TextView locText, orderText;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);

        epep      = findViewById(R.id.CardViewIntent_1);
        emel      = findViewById(R.id.CardViewIntent_2);
        ninja     = findViewById(R.id.CardViewIntent_3);
        locText   = findViewById(R.id.text_view_order);
    }
}
```

```

orderText = findViewById(R.id.textViewIntent_loc);

epep.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent List = new Intent(MainActivity.this, Epep.class);
        startActivity(List);
    }
});

emel.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent List2 = new Intent(MainActivity.this, Emel.class);
        startActivity(List2);
    }
});

ninja.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent List3 = new Intent(MainActivity.this, Ninja.class);
        startActivity(List3);
    }
});

locText.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent launchMapAppIntent = new Intent(Intent.ACTION_VIEW);
        launchMapAppIntent.setData(Uri.parse("geo:-7.273946852840151,
112.79371116759155?q=Politeknik+Elektronika+Negeri+Surabaya"));
        startActivity(launchMapAppIntent);
    }
});

orderText.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent launchEmailAppIntent = new Intent(Intent.ACTION_VIEW);
        launchEmailAppIntent.setData(Uri.parse("http://www.instagram.com/sptianbgus"));
        startActivity(launchEmailAppIntent);
    }
});
}
}

```

➤ Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>

<ScrollView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:padding="28dp">

        <TextView
            android:id="@+id/textViewIntent_Judul"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:fontFamily="sans-serif-condensed-medium"
            android:text="ASEP STORE"
            android:textSize="30sp" />

        <androidx.cardview.widget.CardView
            android:id="@+id/CardViewIntent_1"
            android:layout_width="200dp"
            android:layout_height="wrap_content"
            android:layout_centerHorizontal="true"
            android:layout_marginTop="60dp">

            <LinearLayout
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:orientation="vertical">

                <ImageView
                    android:id="@+id/imageViewIntent_1"
                    android:layout_width="200dp"
                    android:layout_height="155dp"
                    android:scaleType="centerCrop"
                    android:src="@drawable/free_fire" />

                <TextView
                    android:id="@+id/textViewIntent_1"
                    android:layout_width="match_parent"
                    android:layout_height="match_parent"
                    android:layout_marginTop="5dp"
                    android:fontFamily="sans-serif-condensed-medium"
                    android:gravity="center"
                    android:text="Free Fire"
                    android:textSize="10pt" />
            </LinearLayout>
        </androidx.cardview.widget.CardView>

        <androidx.cardview.widget.CardView
            android:id="@+id/CardViewIntent_2">
```

```

        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/CardViewIntent_1"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="60dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <ImageView
                android:id="@+id/imageViewIntent_2"
                android:layout_width="200dp"
                android:layout_height="155dp"
                android:scaleType="centerCrop"
                android:src="@drawable/mobile_legends" />

            <TextView
                android:id="@+id/textViewIntent_2"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_marginTop="5dp"
                android:fontFamily="sans-serif-condensed-medium"
                android:gravity="center"
                android:text="Mobile Legends"
                android:textSize="10pt" />

        </LinearLayout>
    </androidx.cardview.widget.CardView>

    <androidx.cardview.widget.CardView
        android:id="@+id/CardViewIntent_3"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:layout_below="@+id/CardViewIntent_2"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="60dp">

        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:orientation="vertical">

            <ImageView
                android:id="@+id/imageViewIntent_3"
                android:layout_width="200dp"
                android:layout_height="155dp"
                android:src="@drawable/ninja_heroes" />

            <TextView
                android:id="@+id/textViewIntent_3"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_marginTop="5dp"
                android:fontFamily="sans-serif-condensed-medium"
                android:gravity="center"
                android:text="Ninja Heroes"

```



```

        android:textSize="10pt" />
    </LinearLayout>
</androidx.cardview.widget.CardView>

<TextView
    android:id="@+id/textViewIntent_loc"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/CardViewIntent_3"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="20dp"
    android:fontFamily="sans-serif-light"
    android:text="Instagram"
    android:textSize="10pt" />

<TextView
    android:id="@+id/text_view_order"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_below="@+id/textViewIntent_loc"
    android:layout_centerHorizontal="true"
    android:layout_marginTop="20dp"
    android:fontFamily="sans-serif-light"
    android:text="View Gmaps"
    android:textSize="10pt" />
</RelativeLayout>
</ScrollView>

```

➤ Epep.java

```

package com.example.praktikum4;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;

public class Epep extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_epep);

        ListView startersList = findViewById(R.id.lstItem);
        Button btn = findViewById(R.id.btnNinja);

        Dish[] dishes = {

```

```

        new Dish("Promo 355 Amunisi", "Mendapatkan 155+200
Amunisi", 70000),
        new Dish("Promo 720 Amunisi", "Mendapatkan 600+120
Amunisi", 98000),
        new Dish("Promo 1080 Amunisi", "Mendapatkan 720+360
Amunisi", 145000),
        new Dish("Promo 1440 Amunisi", "Mendapatkan 1080+360
Amunisi", 195000),
        new Dish("Promo 2000 Amunisi", "Mendapatkan 1440+560
Amunisi", 270000),
        new Dish("Promo 2720 Amunisi", "Mendapatkan 2000+720
Amunisi", 350000),
        new Dish("Promo 3440 Amunisi", "Mendapatkan 2720+720
Amunisi", 450000),
        new Dish("Promo 4000 Amunisi", "Mendapatkan 3440+560
Amunisi", 520000),
        new Dish("Promo 6000 Amunisi", "Mendapatkan 4000+2000
Amunisi", 780000),
        new Dish("Promo Membership Mingguan", "Mendapatkan 100 Amunisi
tiap hari", 30000)

    };

    ArrayAdapter<Dish> dishAdapter = new ArrayAdapter<>(this,
android.R.layout.simple_list_item_1, dishes);
    startersList.setAdapter(dishAdapter);

    startersList.setOnItemClickListener(new
AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> adapterView, View view,
int i, long l) {
            Dish ds = dishAdapter.getItem(i);
            Toast toast =
Toast.makeText(getApplicationContext(), ds.getDesc(), Toast.LENGTH_LONG);
            toast.show();
        }
    });

    btn.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent menu = new Intent(Epep.this, MainActivity.class);
            startActivity(menu);
        }
    });
}
}

```

➤ Activity_epep.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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_height="match_parent"
    android:layout_width="match_parent"
    android:orientation="vertical">
    <!--      android:gravity="center">-->

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="300dp"
        android:src="@drawable/free_fire" />

    <ListView
        android:id="@+id/lstItem"
        android:layout_width="match_parent"
        android:layout_height="350dp" />

    <Button
        android:id="@+id/btnNinja"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:text="Menu Utama" />

</LinearLayout>
```

➤ Emel.java

```
package com.example.praktikum4;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;

public class Emel extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_emel);
    }
}
```

```

        ListView startersList = findViewById(R.id.lstItem);
        Button btn = findViewById(R.id.btnEmel);

        Dish[] dishes = {
            new Dish("Promo 355 Diamond", "Mendapatkan 155+200 Diamond", 70000),
            new Dish("Promo 720 Diamond", "Mendapatkan 600+120 Diamond", 98000),
            new Dish("Promo 1080 Diamond", "Mendapatkan 720+360 Diamond", 145000),
            new Dish("Promo 1440 Diamond", "Mendapatkan 1080+360 Diamond", 195000),
            new Dish("Promo 2000 Diamond", "Mendapatkan 1440+560 Diamond", 270000),
            new Dish("Promo 2720 Diamond", "Mendapatkan 2000+720 Diamond", 350000),
            new Dish("Promo 3440 Diamond", "Mendapatkan 2720+720 Diamond", 450000),
            new Dish("Promo 4000 Diamond", "Mendapatkan 3440+560 Diamond", 520000),
            new Dish("Promo 6000 Diamond", "Mendapatkan 4000+2000 Diamond", 780000),
            new Dish("Promo Membership Mingguan", "Mendapatkan 100 Diamond tiap hari", 30000)
        };

        ArrayAdapter<Dish> dishAdapter = new ArrayAdapter<>(this, android.R.layout.simple_list_item_1, dishes);
        startersList.setAdapter(dishAdapter);

        startersList.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
                Dish ds = dishAdapter.getItem(i);
                Toast toast =
                Toast.makeText(getApplicationContext(), ds.getDesc(), Toast.LENGTH_LONG);
                toast.show();
            }
        });

        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent menu = new Intent(Emel.this, MainActivity.class);
                startActivity(menu);
            }
        });
    }
}

```

➤ Activity_emel.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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_height="match_parent"
    android:layout_width="match_parent"
    android:orientation="vertical">
    <!--      android:gravity="center">-->

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="300dp"
        android:src="@drawable/mobile_legends" />

    <ListView
        android:id="@+id/lstItem"
        android:layout_width="match_parent"
        android:layout_height="350dp" />

    <Button
        android:id="@+id/btnEmel"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:text="Menu Utama" />

</LinearLayout>
```

➤ Ninja.java

```
package com.example.praktikum4;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.Toast;

public class Ninja extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_ninja);
    }
}
```

```

        ListView startersList = findViewById(R.id.lstItem);
        Button btn = findViewById(R.id.btnNinja);

        Dish[] dishes = {
            new Dish("Promo 355 Cakra", "Mendapatkan 155+200 Cakra", 70000),
            new Dish("Promo 720 Cakra", "Mendapatkan 600+120 Cakra", 98000),
            new Dish("Promo 1080 Cakra", "Mendapatkan 720+360 Cakra", 145000),
            new Dish("Promo 1440 Cakra", "Mendapatkan 1080+360 Cakra", 195000),
            new Dish("Promo 2000 Cakra", "Mendapatkan 1440+560 Cakra", 270000),
            new Dish("Promo 2720 Cakra", "Mendapatkan 2000+720 Cakra", 350000),
            new Dish("Promo 3440 Cakra", "Mendapatkan 2720+720 Cakra", 450000),
            new Dish("Promo 4000 Cakra", "Mendapatkan 3440+560 Cakra", 520000),
            new Dish("Promo 6000 Cakra", "Mendapatkan 4000+2000 Cakra", 780000),
            new Dish("Promo Membership Mingguan", "Mendapatkan 100 Cakra tiap hari", 30000)
        };

        ArrayAdapter<Dish> dishAdapter = new ArrayAdapter<>(this, android.R.layout.simple_list_item_1, dishes);
        startersList.setAdapter(dishAdapter);

        startersList.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
                Dish ds = dishAdapter.getItem(i);
                Toast toast = Toast.makeText(getApplicationContext(), ds.getDesc(), Toast.LENGTH_LONG);
                toast.show();
            }
        });

        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent menu = new Intent(Ninja.this, MainActivity.class);
                startActivity(menu);
            }
        });
    }
}

```

➤ Activity_ninja.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout
    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_height="match_parent"
    android:layout_width="match_parent"
    android:orientation="vertical">
    <!-- android:gravity="center">-->

    <ImageView
        android:layout_width="match_parent"
        android:layout_height="300dp"
        android:src="@drawable/ninja_heroes" />

    <ListView
        android:id="@+id/lstItem"
        android:layout_width="match_parent"
        android:layout_height="350dp" />

    <Button
        android:id="@+id/btnNinja"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:text="Menu Utama" />

</LinearLayout>
```

➤ Dish.java

```
package com.example.test2;

import androidx.annotation.NonNull;

public class Dish {
    String title, desc;
    int price;

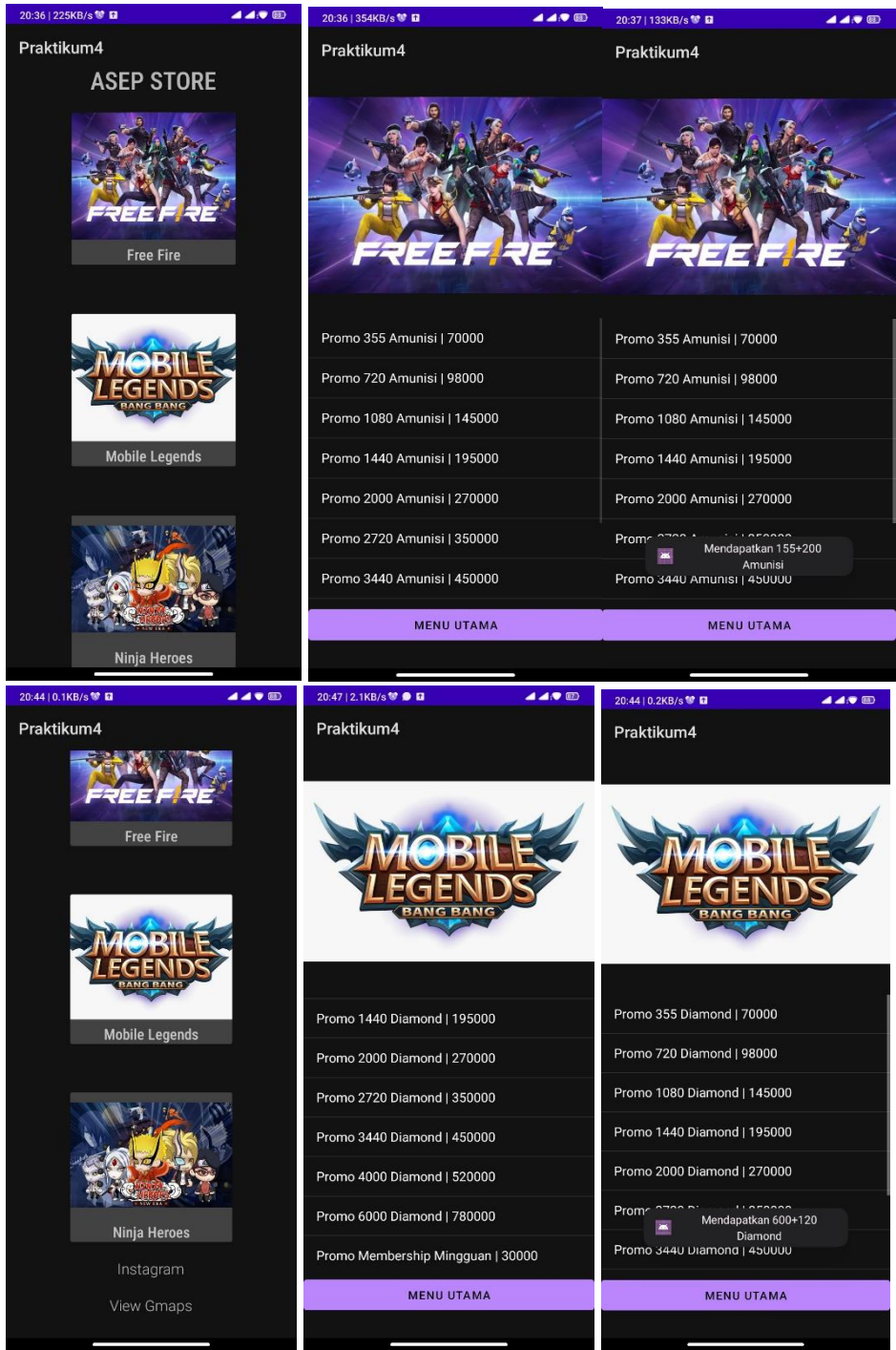
    Dish(String title, String desc, int price){
        this.title = title;
        this.desc = desc;
        this.price = price;
    }

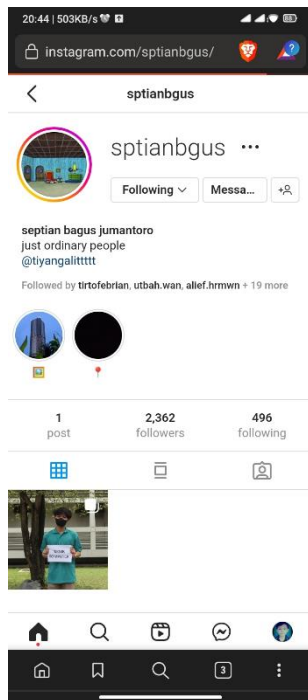
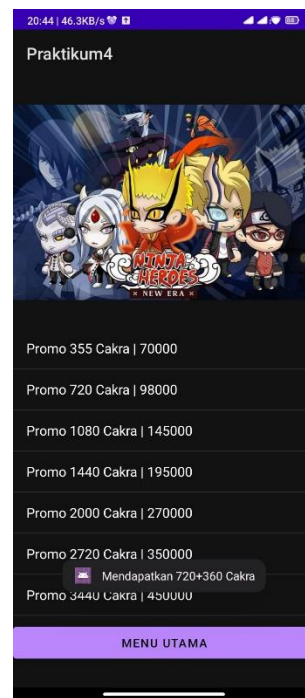
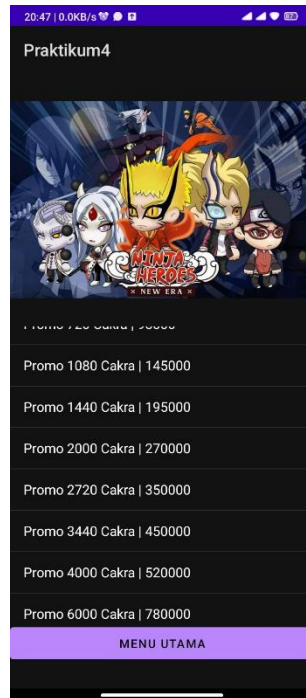
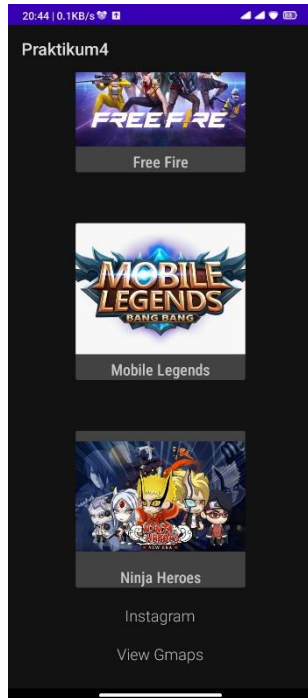
    @NonNull
    @Override
    public String toString(){
        return title + " | " + price;
    }

    public String getTitle(){
```

```
        return title;
    }
    public String getDesc(){
        return desc;
    }
}
```

• Output





Analisa

Pada praktikum tersebut dapat diketahui bahwa sebuah file MainActivity.java memiliki Intent yang terdapat beberapa cardview yang ketika ditekan, maka akan masuk ke Activity baru yaitu EpepActivity, EmelActivity, NinjaActivity. Pada masing-masing Activity terdapat listview yang menampilkan menu yang ada, setiap menu ketika di klik maka akan muncul deskripsi dari menu tersebut.

Untuk sebuah Dish.java yang akan digunakan sebagai adapter untuk menampilkan isian dari sebuah array menu. Dish.java berisi judul dari sebuah menu, deskripsi menu, dan harga dari menu tersebut. Menu tersebut akan dimasukan kedalam listview yang seterusnya akan ditampilkan kedalam aplikasi. Untuk memanggilnya dalam Activity, dapat memanggil namanya secara langsung

```
Dish[] dishes = {
    new Dish("Promo 355 Amunisi", "Mendapatkan 155+200 Amunisi", 70000),
    new Dish("Promo 720 Amunisi", "Mendapatkan 600+120 Amunisi", 98000),
    new Dish("Promo 1080 Amunisi", "Mendapatkan 720+360 Amunisi", 145000),
    new Dish("Promo 1440 Amunisi", "Mendapatkan 1080+360 Amunisi", 195000),
    new Dish("Promo 2000 Amunisi", "Mendapatkan 1440+560 Amunisi", 270000),
    new Dish("Promo 2720 Amunisi", "Mendapatkan 2000+720 Amunisi", 350000),
    new Dish("Promo 3440 Amunisi", "Mendapatkan 2720+720 Amunisi", 450000),
    new Dish("Promo 4000 Amunisi", "Mendapatkan 3440+560 Amunisi", 520000),
    new Dish("Promo 6000 Amunisi", "Mendapatkan 4000+2000 Amunisi", 780000),
    new Dish("Promo Membership Mingguan", "Mendapatkan 100 Amunisi tiap
hari", 30000)
};
```

Selanjutnya dimasukan kedalam ArrayAdapter agar setiap teks dari array bisa ditampilkan.

```
ArrayAdapter<Dish> dishAdapter = new ArrayAdapter<>(this,
android.R.layout.simple_list_item_1, dishes);
startersList.setAdapter(dishAdapter);
```

Setiap menu di klik, maka akan muncul popup toast deskripsi dari menu tersebut.

Digunakan sebuah OnItemClickListener

```
startersList.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i,
long l) {
        Dish ds = dishAdapter.getItem(i);
        Toast toast =
Toast.makeText(getApplicationContext(), ds.getDesc(), Toast.LENGTH_LONG);
        toast.show();
    }
});
```

Untuk menggunakan Implicit Intent, digunakan sebuah Intent tetapi dengan target yang berberda. Digunakan Uri.parse() untuk mengidentifikasi alamat apa yang diberikan dan aplikasi apa yang akan dituju.

```
orderText.setOnClickListener(new View.OnClickListener() {  
    @Override  
    public void onClick(View view) {  
        Intent launchEmailAppIntent = new Intent(Intent.ACTION_VIEW);  
  
        launchEmailAppIntent.setData(Uri.parse("http://www.instagram.com/sptianbgus"))  
    };  
        startActivity(launchEmailAppIntent);  
    }  
});
```

Pada AndroidManifest, dimodifikasi pada 3 Intent dari MainActivity yaitu StarterActivity, MainsActivity, DessertActiviy agar terdapat up action untuk kembali ke MainActivity

```
<activity  
    android:name=".Epep"  
    android:exported="false" />  
<activity  
    android:name=".Ninja"  
    android:exported="false" />  
<activity  
    android:name=".Emel"  
    android:exported="false" />  
<activity  
    android:name=".ListActivity"  
    android:label="List"  
    android:parentActivityName=".MainActivity" />
```

- Android:name=""
Berfungsi untuk mengidentifikasi dari Activity tersebut
- Android:label=""
Berfungsi untuk memberikan label pada actionbar
- Android: parentActivityName=""
Berfungsi untuk mengidentifikasi induk dari activity tersebut dan memberikan up action untuk kembali ke MainActivity