Unit 1

Input

1. Tujuan

Mahasiswa mampu membuat aplikasi yang dapat melakukan penginputan.

1. Teori Dasar

Materi dapat dilihat pada pateri Intent

1. Praktikum
2. Membuat aplikasi yang dapat mengirim data dari activity satu ke activity lainnya.

* Buka project Android Studio
* Buatlah 2 file activity dan 2 file java.
* Untuk menambah file klik kanan pada java pilih **New,** pilih **Activity,** pilih **Empty**
* Kemudian buka file xml pada folder app/res/values/string.xml, kemudian tambahkan data sebagai berikut:

(string.xml)

<resources>

    <string name="output">Tampilan Output</string>

    <string name="app\_name">Belajar Input</string>

    <string name="nama">Nama :</string>

    <string name="umur">Umur :</string>

    <string name="perempuan">Perempuan</string>

    <string name="lakilaki">Laki-Laki</string>

    <string name="jeniskelamin">Jenis Kelamin :</string>

    <string name="kirimdata">Kirim Data</string>

</resources>

(activity\_main.xml)

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

<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"

                android:layout\_width="match\_parent"

                android:layout\_height="match\_parent" >

    <TextView

        android:id="@+id/nameText"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_alignParentLeft="true"

        android:layout\_alignParentTop="true"

        android:layout\_marginLeft="18dp"

        android:layout\_marginTop="24dp"

        android:text="@string/nama" />

    <EditText

        android:id="@+id/nama"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_alignParentRight="true"

        android:layout\_alignTop="@+id/nameText"

        android:ems="10" android:inputType="text"/>

     <TextView

        android:id="@+id/umurText"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_alignLeft="@+id/nameText"

        android:layout\_below="@+id/nama"

        android:layout\_marginTop="26dp"

        android:text="@string/umur" />

     <EditText

        android:id="@+id/umur"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_alignParentRight="true"

        android:layout\_alignTop="@+id/umurText"

        android:ems="10" android:inputType="text"/>

     <TextView

        android:id="@+id/jeniskelaminText"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_alignLeft="@+id/gridLayout1"

        android:layout\_below="@+id/umur"

        android:layout\_marginTop="19dp"

        android:text="@string/jeniskelamin" />

    <GridLayout

        android:id="@+id/gridLayout1"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_alignLeft="@+id/umurText"

        android:layout\_below="@+id/umur"

        android:layout\_marginTop="44dp" >

         <RadioGroup

            android:id="@+id/jeniskelamin"

            android:layout\_width="match\_parent"

            android:layout\_height="wrap\_content"

            android:orientation="horizontal" >

             <RadioButton

                android:id="@+id/femaleRadio"

                android:layout\_width="wrap\_content"

                android:layout\_height="wrap\_content"

                android:checked="true"

                android:text="@string/perempuan" />

             <RadioButton

                android:id="@+id/maleRadio"

                android:layout\_width="wrap\_content"

                android:layout\_height="wrap\_content"

                android:checked="true"

                android:text="@string/lakilaki" />

        </RadioGroup>

    </GridLayout>

     <Button

        android:id="@+id/kirimdata"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:layout\_alignRight="@+id/gridLayout1"

        android:layout\_below="@+id/gridLayout1"

        android:layout\_marginTop="21dp"

        android:text="@string/kirimdata"

 android:onClick="kirimData"/>

</RelativeLayout>

(MainActivity.java)

**import** android.support.v7.app.AppCompatActivity;

**import** android.content.Intent;

**import** android.os.Bundle;

**import** android.view.View;

**import** android.view.View.OnClickListener;

**import** android.widget.Button;

**import** android.widget.EditText;

**import** android.widget.RadioButton;

**import** android.widget.RadioGroup;

*//Created by Fathur (okedroid.com)*

**public** **class**  MainActivity  **extends** AppCompatActivity **implements** OnClickListener {

*//mendeklarasikan variabel*

    RadioGroup genderRadioGroup;

    EditText nama;

    EditText umur;

***/\*\* memanggil activity pertama dibuat\*/***

    @Override

**public** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

nama = (EditText) findViewById(R.id.nama);

        umur = (EditText) findViewById(R.id.umur);

        genderRadioGroup = (RadioGroup) findViewById(R.id.jeniskelamin);

    }

    @Override

**public** **void** kirimData(View v) {

        Intent intent = **new** Intent(getApplicationContext(), MainActivity2.**class**);

*//Membuat obyek bundle*

        Bundle b = **new** Bundle();

*//Menyisipkan tipe data String ke dalam obyek bundle*

        b.putString("nama", nama.getText().toString());

        b.putString("umur", umur.getText().toString());

**int** id = genderRadioGroup.getCheckedRadioButtonId();

        RadioButton radioButton = (RadioButton) findViewById(id);

        b.putString("jeniskelamin", radioButton.getText().toString());

*//Menambahkan bundle intent*

        intent.putExtras(b);

*//memulai Activity kedua*

        startActivity(intent);

    }

}

Pada bagian Layout 2 dan Activity 2, kalian bisa menggunakan codingan berikut:

(activity\_main\_2.xml)

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

<GridLayout xmlns:android="http://schemas.android.com/apk/res/android"

            android:layout\_width="match\_parent"

            android:layout\_height="match\_parent"

            android:columnCount="3" >

    <TextView

        android:id="@+id/nameText"

        android:layout\_column="1"

        android:layout\_gravity="left"

        android:layout\_row="1"

        android:text="@string/nama" />

    <TextView

        android:id="@+id/namaValue"

        android:layout\_column="2"

        android:layout\_gravity="left"

        android:layout\_row="1"

        android:text=""

        android:textAppearance="?android:attr/textAppearanceMedium" />

     <TextView

        android:id="@+id/umurText"

        android:layout\_column="1"

        android:layout\_gravity="left"

        android:layout\_row="3"

        android:text="@string/umur" />

     <TextView

        android:id="@+id/umurValue"

        android:layout\_column="2"

        android:layout\_gravity="left"

        android:layout\_row="3"

        android:text=""

        android:textAppearance="?android:attr/textAppearanceMedium" />

     <TextView

        android:id="@+id/jeniskelaminText"

        android:layout\_column="1"

        android:layout\_gravity="left"

        android:layout\_row="5"

        android:text="@string/jeniskelamin" />

     <TextView

        android:id="@+id/jeniskelaminValue"

        android:layout\_column="2"

        android:layout\_gravity="left"

        android:layout\_row="5"

        android:text=""

        android:textAppearance="?android:attr/textAppearanceMedium" />

     <Space

        android:layout\_width="21dp"

        android:layout\_height="1dp"

        android:layout\_column="0"

        android:layout\_gravity="fill\_horizontal"

        android:layout\_row="0" />

     <Space

        android:layout\_width="1dp"

        android:layout\_height="21dp"

        android:layout\_column="0"

        android:layout\_gravity="fill\_horizontal"

        android:layout\_row="0" />

    <Space

        android:layout\_width="64dp"

        android:layout\_height="1dp"

        android:layout\_column="1"

        android:layout\_gravity="fill\_horizontal"

        android:layout\_row="0" />

     <Space

        android:layout\_width="1dp"

        android:layout\_height="10dp"

        android:layout\_column="0"

        android:layout\_gravity="fill\_horizontal"

        android:layout\_row="2" />

     <Space

        android:layout\_width="1dp"

        android:layout\_height="10dp"

        android:layout\_column="0"

        android:layout\_gravity="fill\_horizontal"

        android:layout\_row="4" />

</GridLayout>

(MainActivity\_2.java)

**import** android.os.Bundle;

**import** android.support.v7.app.AppCompatActivity;

**import** android.widget.TextView;

*//Created by Fathur (okedroid.com)*

**public** **class** MainActivity2 **extends** AppCompatActivity {

    @Override

**protected** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main2);

        Bundle b = getIntent().getExtras();

*//membuat obyek dari widget textview*

        TextView nama = (TextView) findViewById(R.id.namaValue);

        TextView umur = (TextView) findViewById(R.id.umurValue);

        TextView jeniskelamin = (TextView) findViewById(R.id.jeniskelaminValue);

*//menset nilai dari widget textview*

        nama.setText(b.getCharSequence("nama"));

        umur.setText(b.getCharSequence("umur"));

        jeniskelamin.setText(b.getCharSequence("jeniskelamin"));

    }

}

1. Membuat Aplikasi Input Password tanpa database

* Buka project Android Studio
* Buatlah 2 file activity dan 2 file java.
* Kemudian buka file xml pada folder app/res/values/string.xml, kemudian tambahkan data sebagai berikut:

(activity\_main.xml)

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

<RelativeLayout

xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:layout\_margin="16dp">

<LinearLayout

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:layout\_alignParentBottom="true"

        android:background="#0091EA">

    <Button

            android:text="LOGIN"

            android:textColor="#FFF"

            android:layout\_width="match\_parent"

            android:layout\_height="wrap\_content"

            android:layout\_alignParentBottom="true"

            android:layout\_centerHorizontal="true"

            android:background="?android:attr/selectableItemBackground"

            android:id="@+id/button2"

            android:onClick="loginMasuk"

            android:textStyle="normal|bold"/>

    />

</LinearLayout>

<EditText

        android:id="@+id/edittext\_password"

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:hint="Password"

        android:inputType="textCapWords"

        style="@style/AppTheme"

        android:layout\_centerVertical="true"

        android:layout\_alignParentStart="true"

        android:textSize="30sp"

        android:fontFamily="monospace"/>

<EditText

        android:id="@+id/edittext\_username"

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:hint="Username"

        android:inputType="textCapWords"

        android:layout\_marginBottom="16dp"

        android:textSize="30sp"

        android:fontFamily="monospace"

        android:layout\_above="@+id/edittext\_password"

        android:layout\_alignParentStart="true"/>

<TextView

        android:text="User Login"

        android:textColor="#fff"

        android:background="#0091EA"

        android:layout\_width="match\_parent"

        android:layout\_height="wrap\_content"

        android:id="@+id/textView2"

        android:textStyle="normal|bold"

        android:textSize="36sp"

        android:textAlignment="center"

        android:layout\_alignParentTop="true"

        android:layout\_alignParentStart="true"

        android:layout\_marginTop="42dp"/>

</RelativeLayout>

(MainActivity.java)

**import** android.content.Intent;

**import** android.os.Bundle;

**import** android.support.v7.app.AppCompatActivity;

**import** android.view.View;

**import** android.widget.EditText;

**import** android.widget.Toast;

**public** **class** MainActivity **extends** AppCompatActivity {

    EditText editText1 ,editText2; *//Deklarasi object dari class EdiText*

    String text1 ,text2; *//Deklarasi object string*

    @Override

**protected** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_main);

        getSupportActionBar().setTitle("User Login Sederhana");

        getSupportActionBar().setSubtitle("okedroid.com");

    }

**public** **void** loginMasuk(View view) {

*//Method onClick pada Button*

      editText1 = (EditText)findViewById(R.id.edittext\_username);

      editText2 = (EditText) findViewById(R.id.edittext\_password);

      text1 = editText1.getText().toString();

      text2 = editText2.getText().toString();

*//Kondisi jika username dan password benar maka akan menampilkan pesan text toast*

*//Login sukses dan masuk ke activity 2*

**if** ((text1.contains("Username"))&&((text2.contains("Password")))) {

          Toast.makeText(**this**, "Login Sukses", Toast.LENGTH\_SHORT).show();

          Intent intent = **new** Intent(MainActivity.**this**, SecondActivity.**class**);

          startActivity(intent);

      }

**else** **if** ((text1.matches("")||text2.matches("")))

*/\**

*Atau jika input text 1 dan text 2 kosong*

*\*/*

        {

*//Maka akan menampilkan pesan text toast*

            Toast.makeText(**this**, "Isikan Username dan Password", Toast.LENGTH\_SHORT).show();

          }

**else** {

*//jika kedua kondisi diatas tidak memenuhi*

          Toast.makeText(**this**, "Login Gagal /Username Password Salah", Toast.LENGTH\_SHORT).show();

        }

      }

    }

Pada bagian Layout 2 dan Activity 2, kalian bisa menggunakan codingan berikut:  
  
(activity\_main\_2.xml)

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

<RelativeLayout

    xmlns:android="http://schemas.android.com/apk/res/android"

    xmlns:tools="http://schemas.android.com/tools"

    android:id="@+id/activity\_second"

    android:layout\_width="match\_parent"

    android:layout\_height="match\_parent"

    android:paddingBottom="@dimen/activity\_vertical\_margin"

    android:paddingLeft="@dimen/activity\_horizontal\_margin"

    android:paddingRight="@dimen/activity\_horizontal\_margin"

    android:paddingTop="@dimen/activity\_vertical\_margin">

    <TextView

        android:text="Welcome User"

        android:layout\_width="wrap\_content"

        android:layout\_height="wrap\_content"

        android:id="@+id/textView"

        android:textSize="36sp"

        android:layout\_centerVertical="true"

        android:layout\_centerHorizontal="true"/>

</RelativeLayout>

(MainActivity\_2.java)

**import** android.os.Bundle;

**import** android.support.v7.app.AppCompatActivity;

**public** **class** SecondActivity **extends** AppCompatActivity {

    @Override

**protected** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_second);

    }

}

Pada settingan *AndroidManifest.xml*,pastikan seperti berikut:  
  
*(AndroidManifest.xml)*

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

**package**="com.example.lenovo.latihan">

     <application

        android:allowBackup="true"

        android:icon="@mipmap/ic\_launcher"

        android:label="@string/app\_name"

        android:supportsRtl="true"

        android:theme="@style/AppTheme">

        <activity android:name=".MainActivity">

            <intent-filter>

                <action android:name="android.intent.action.MAIN"/>

                <category android:name="android.intent.category.LAUNCHER"/>

            </intent-filter>

        </activity>

        <activity android:name=".SecondActivity"

                  android:parentActivityName=".MainActivity"

            >

        </activity>

    </application>

</manifest>

1. Tugas

Selesaikanlah seluruh praktikum pada latihan 1, 2.