LAPORAN PRAKTIKUM

PEMROGRAMAN PERANGKAT BERGERAK (Mobile) "Using Intent"



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JURUSAN TEKNIK KOMPUTER DAN INFORMATIKA PROGRAM STUDI D3 TEKNIK INFORMATIKA POLITEKNIK NEGERI BANDUNG TAHUN 2021

1. Linking Activities using Intents

• Source Code

}

}

}

MainActivity.class);

```
• MainActivity.java
package com.example.usingintent;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
public class MainActivity extends AppCompatActivity {
    @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    }
    public void onClick(View view) {
        Intent intent = new Intent(MainActivity.this,
SecondActivity.class);
        startActivity(intent);
}
• SecondActivity.java
package com.example.usingintent;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
public class SecondActivity extends AppCompatActivity {
    @Override
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

setContentView(R.layout.activity second);

Intent intent = new Intent(SecondActivity.this,

public void onClick(View view) {

startActivity(intent);

• Activity main.xml

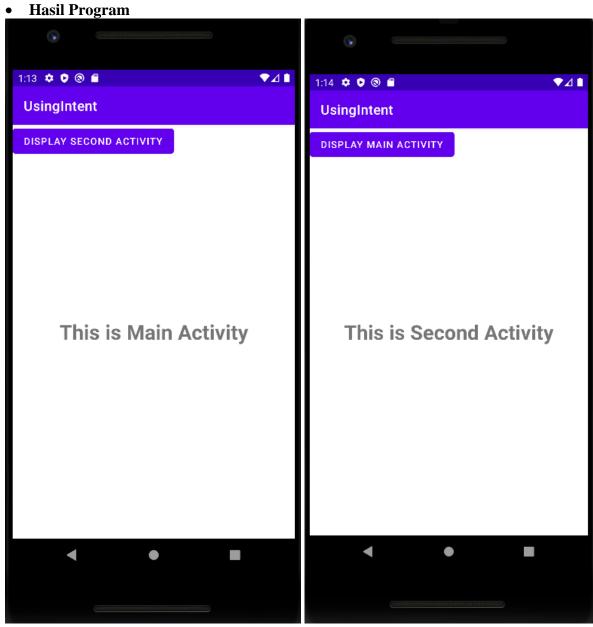
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
   android:layout height="match parent"
   tools:context=".MainActivity">
   <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="This is Main Activity"
        android:textStyle="bold"
        android:textSize="30dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintLeft toLeftOf="parent"
        app:layout constraintRight toRightOf="parent"
        app:layout constraintTop toTopOf="parent" />
    <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Display Second Activity"
        android:onClick="onClick"/>
```

</androidx.constraintlayout.widget.ConstraintLayout>

Activity_second.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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=".SecondActivity">
   <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="This is Second Activity"
        android:textStyle="bold"
        android:textSize="30dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintLeft toLeftOf="parent"
        app:layout constraintRight toRightOf="parent"
        app:layout constraintTop toTopOf="parent" />
    <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Display Main Activity"
        android:onClick="onClick"/>
```

</androidx.constraintlayout.widget.ConstraintLayout>



2. Returning Result from an Intent

• Source Code

MainActivity.java

```
package com.example.usingintent;
import androidx.activity.result.contract.ActivityResultContracts;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.view.View;
import android.widget.Toast;
public class MainActivity extends AppCompatActivity {
    int request Code = 1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    public void onClick(View view) {
        startActivityForResult(new Intent(MainActivity.this,
SecondActivity.class), request Code);
    public void onActivityResult(int requestCode, int resultCode,
Intent data)
    {
        if (requestCode == request Code) {
            if (resultCode == RESULT OK) {
                Toast.makeText(this, data.getData().toString(),
                        Toast.LENGTH SHORT).show();
            }
        }
    }
}
```

SecondActivity.java

```
package com.example.usingintent;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.view.View;
import android.widget.EditText;
import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.os.Bundle;

public class SecondActivity extends AppCompatActivity {
    @Override
```

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

public void onClick(View view) {
    Intent data = new Intent();
    //---get the EditText view---
    EditText txt_username =

(EditText) findViewById(R.id.txtUsername);
    //--set the data to pass back---
    data.setData(Uri.parse( txt_username.getText().toString()));
    setResult(RESULT_OK, data);
    //---closes the activity---
    finish();
}
```

• activity_main.xml

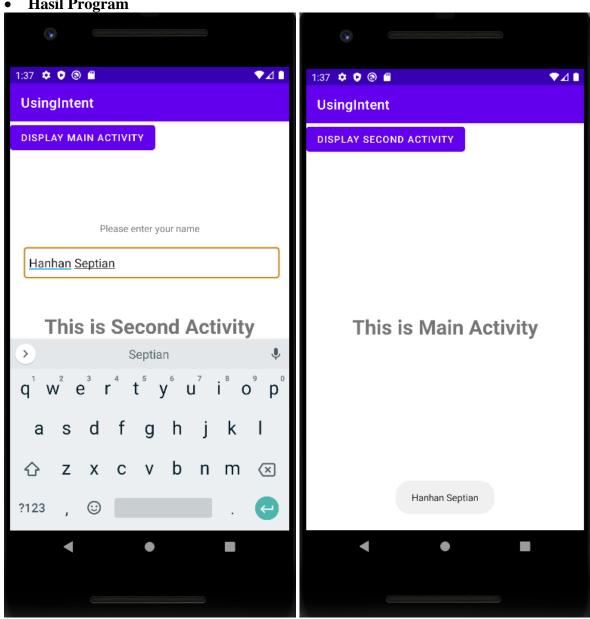
```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
   xmlns:tools="http://schemas.android.com/tools"
   android:layout width="match parent"
    android:layout_height="match_parent"
   tools:context=".MainActivity">
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="This is Main Activity"
        android:textStyle="bold"
        android:textSize="30dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintLeft toLeftOf="parent"
        app:layout_constraintRight toRightOf="parent"
        app:layout constraintTop toTopOf="parent" />
    <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Display Second Activity"
        android:onClick="onClick"/>
```

</androidx.constraintlayout.widget.ConstraintLayout>

Activity second.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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=".SecondActivity">
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="This is Second Activity"
        android:textSize="30dp"
        android:textStyle="bold"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintLeft toLeftOf="parent"
        app:layout constraintRight toRightOf="parent"
        app:layout constraintTop toTopOf="parent" />
    <TextView
        android:id="@+id/textView3"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout marginStart="132dp"
        android:layout marginTop="148dp"
        android:layout marginEnd="132dp"
        android:text="Please enter your name"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintHorizontal bias="0.0"
        app:layout constraintStart toStartOf="parent"
        app:layout constraintTop toTopOf="parent" />
    <EditText
        android:id="@+id/txtUsername"
        android:layout width="381dp"
        android:layout height="50dp"
        android:layout marginTop="16dp"
        android:layout marginEnd="12dp"
        android:background="@android:drawable/editbox background"
        app:layout constraintEnd toEndOf="parent"
        app:layout constraintTop toBottomOf="@+id/textView3" />
    <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:onClick="onClick"
        android:text="Display Main Activity"
        tools:layout editor absoluteX="0dp"
        tools:layout editor absoluteY="-2dp" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

• Hasil Program



3. Passing Data Using an Intent Object

• Source Code

MainActivity.java

```
package com.example.usingintent;
import androidx.activity.result.contract.ActivityResultContracts;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
import android.content.Intent;
public class MainActivity extends AppCompatActivity {
    int request Code = 1;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity main);
    public void onClick(View view) {
        Intent i = new Intent(MainActivity.this,
SecondActivity.class);
        //---use putExtra() to add new name/value pairs---
        i.putExtra("str1", "This is a string");
        i.putExtra("age1", 25);
        //---use a Bundle object to add new name/values
        // pairs---
        Bundle extras = new Bundle();
        extras.putString("str2", "This is another string");
        extras.putInt("age2", 35);
        //---attach the Bundle object to the Intent object---
        i.putExtras(extras);
        //---start the activity to get a result back---
        startActivityForResult(i, 1);
    public void onActivityResult(int requestCode, int resultCode,
Intent data) {
        //---check if the request code is 1---
        if (requestCode == 1) {
            //---if the result is OK---
            if (resultCode == RESULT OK) {
                //---get the result using getIntExtra()---
                Toast.makeText(this, Integer.toString(
                        data.getIntExtra("age3", 0)),
                        Toast.LENGTH SHORT).show();
                //---get the result using getData()---
                Toast.makeText(this, data.getData().toString(),
                        Toast.LENGTH SHORT).show();
            }
        }
   }
}
```

SecondActivity.java

```
package com.example.usingintent;
import androidx.appcompat.app.AppCompatActivity;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.app.Activity;
import android.content.Intent;
import android.net.Uri;
import android.widget.Toast;
public class SecondActivity extends AppCompatActivity {
    @Override
    public void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity second);
        //---get the data passed in using getStringExtra()---
        Toast.makeText(this,getIntent().getStringExtra("str1"),
                Toast.LENGTH SHORT).show();
        //---get the data passed in using getIntExtra()---
Toast.makeText(this, Integer.toString(getIntent().getIntExtra("age1",
0)), Toast.LENGTH SHORT).show();
        //---get the Bundle object passed in---
        Bundle bundle = getIntent().getExtras();
        //---get the data using the getString()---
        Toast.makeText(this, bundle.getString("str2"),
Toast.LENGTH SHORT).show();
        //---get the data using the getInt() method---
        Toast.makeText(this, Integer.toString(bundle.getInt("age2")),
Toast.LENGTH SHORT).show();
    public void onClick(View view) {
        //---use an Intent object to return data---
        Intent i = new Intent();
        //---use the putExtra() method to return some
        // value---
        i.putExtra("age3", 45);
        //---use the setData() method to return some value---
        i.setData(Uri.parse("Something passed back to main
activity"));
        //---set the result with OK and the Intent object---
        setResult(RESULT OK, i);
        //---destroy the current activity---
        finish();
    }
//
      public void onClick(View view) {
//
          Intent data = new Intent();
//
          //---get the EditText view---
//
          EditText txt username =
(EditText) findViewById(R.id.txtUsername);
          //---set the data to pass back---
```

```
// data.setData(Uri.parse(
txt_username.getText().toString()));
// setResult(RESULT_OK, data);
// /---closes the activity---
// finish();
// }
```

• Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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">
    <TextView
        android:layout_width="wrap_content"
        android:layout height="wrap content"
        android:text="This is Main Activity"
        android:textStyle="bold"
        android:textSize="30dp"
        app:layout constraintBottom toBottomOf="parent"
        app:layout constraintLeft toLeftOf="parent"
        app:layout_constraintRight toRightOf="parent"
        app:layout constraintTop toTopOf="parent" />
    <Button
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="Display Second Activity"
        android:onClick="onClick"/>
```

</androidx.constraintlayout.widget.ConstraintLayout>

• Activity_second.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout</pre>
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=".SecondActivity">
    <TextView
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:text="This is Second Activity"
        android:textSize="30dp"
        android:textStyle="bold"
        app:layout constraintBottom toBottomOf="parent"
        app:layout_constraintLeft toLeftOf="parent"
        app:layout constraintRight toRightOf="parent"
        app:layout constraintTop toTopOf="parent" />
```

```
<TextView
    android:id="@+id/textView3"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginStart="132dp"
    android:layout marginTop="148dp"
    android:layout marginEnd="132dp"
    android:text="Please enter your name"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintHorizontal bias="0.0"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent" />
<Edit.Text
    android:id="@+id/txtUsername"
    android:layout_width="381dp"
    android:layout height="50dp"
    android:layout marginTop="16dp"
    android:layout marginEnd="12dp"
    android:background="@android:drawable/editbox background"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintTop toBottomOf="@+id/textView3" />
<Button
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:onClick="onClick"
    android:text="Display Main Activity"
    tools:layout editor absoluteX="0dp"
    tools:layout editor absoluteY="-2dp" />
```

</androidx.constraintlayout.widget.ConstraintLayout>

• Hasil Program

