

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.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);
    }

    public void onClick(View view) {
        Intent intent = new Intent(SecondActivity.this,
MainActivity.class);
        startActivity(intent);
    }
}
```

- **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">

    <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"/>

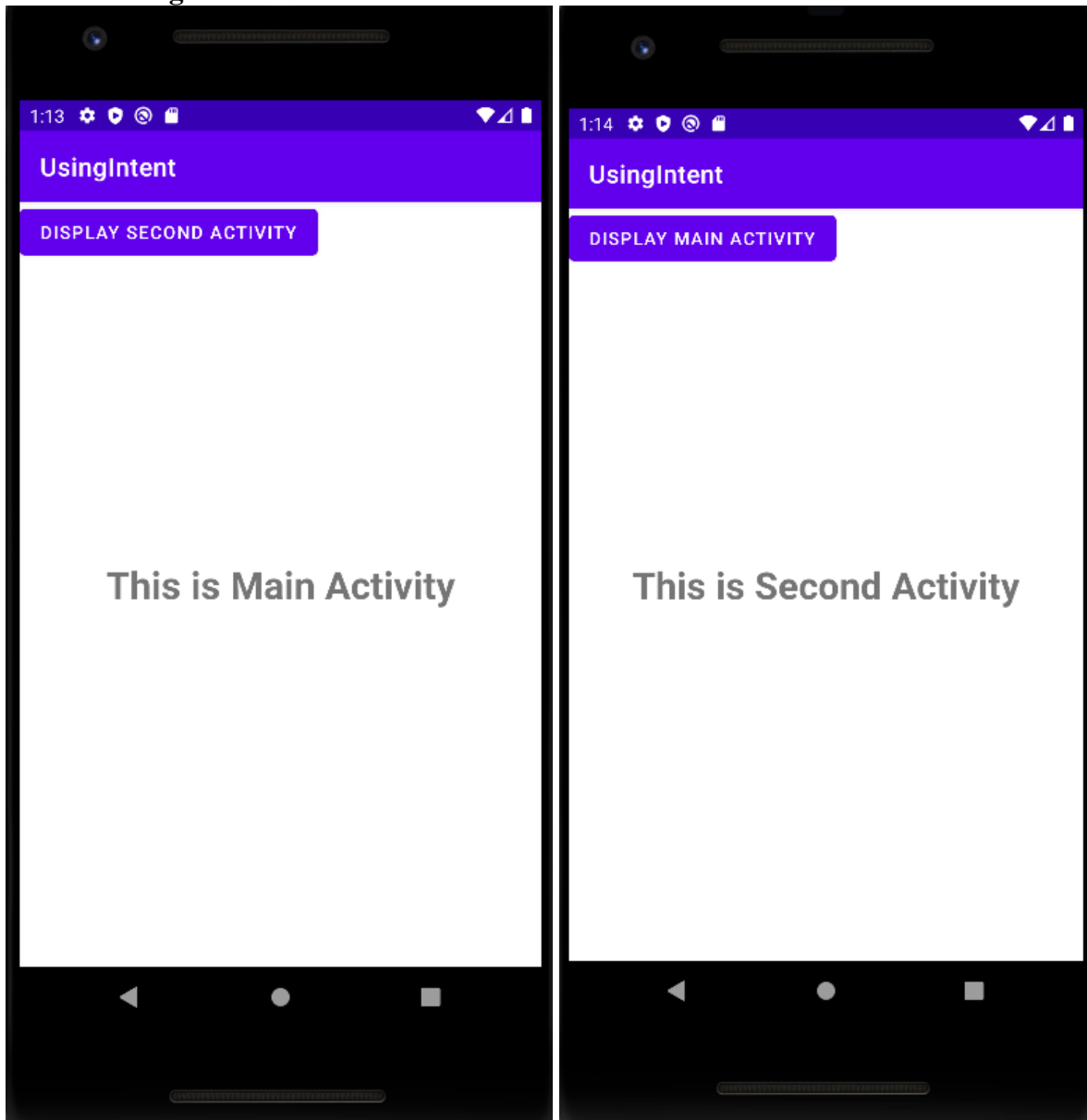
</androidx.constraintlayout.widget.ConstraintLayout>
```

- **Activity_second.xml**

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
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>
```

- **Hasil Program**



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
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
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" />

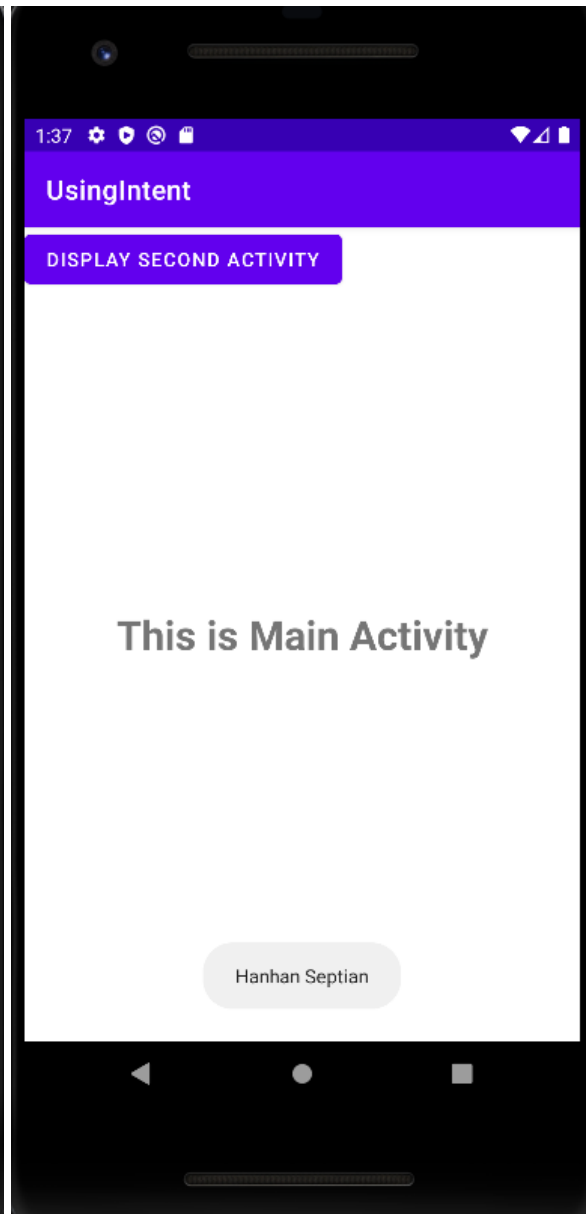
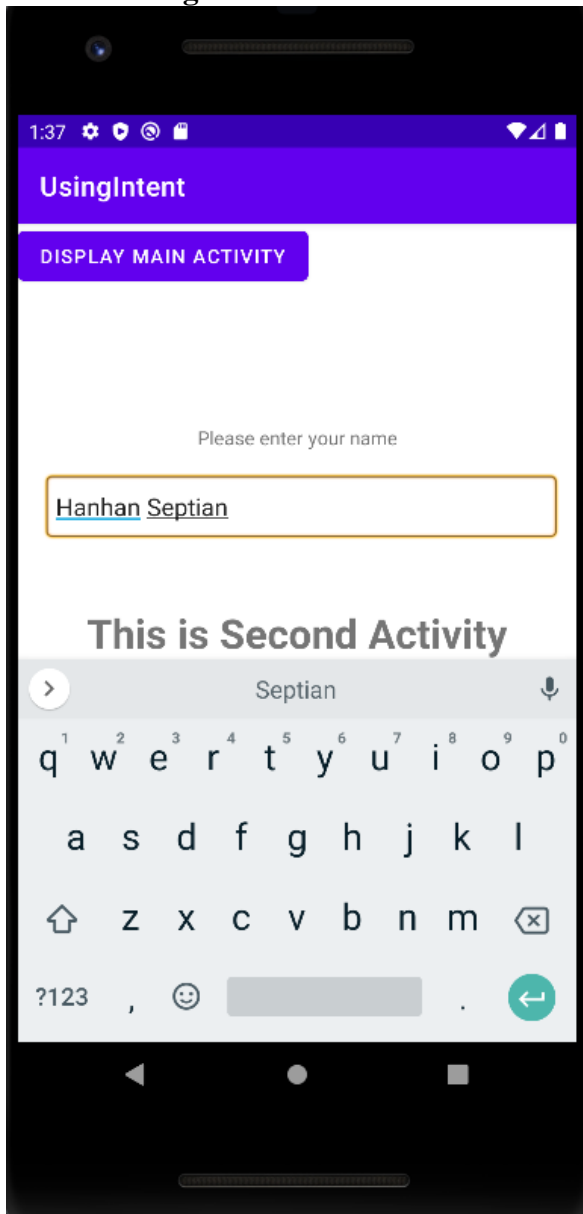
    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="132dp"
        android:layout_marginTop="148dp"
        android:layout_marginEnd="132dp"
        android:text="Please enter your name"
        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
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
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

