

Lab Report 3 : Double Activity App

Course Title: Mobile Application Development

Course Code: CSE-410



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GitHub Repository:

You can find the repository at the following link:

https://github.com/RubayedMunna/Android-Lab/tree/main/Lab_3/TwoActivity

Code:

activity_main.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:id="@+id/main"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:padding="100dp"
    tools:context=".MainActivity">

    <EditText
        android:id="@+id/message"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:layout_gravity="center"
        android:hint="@string/hint"
        android:ems="10" />

    <Button
        android:id="@+id/send"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginTop="20dp"
        android:onClick="onSendMessage"
        android:layout_gravity="center"
        android:text="@string/send" />
</LinearLayout>
```

Listing 1: activity_main.xml

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:id="@+id/main"
android:layout_width="match_parent"
android:layout_height="match_parent"
tools:context=".SecondActivity">

<TextView
    android:id="@+id/message"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="TextView"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

Listing 2: activity_second.xml

MainActivity.java

```
package com.example.twoactivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), (v, insets) -> {
            Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
            return insets;
        });
    }

    public void onSendMessage(View view) {
        EditText messageView = (EditText) findViewById(R.id.message);
```

```
String messageText = messageView.getText().toString();

Intent intent = new Intent(this, SecondActivity.class);
intent.putExtra("message", messageText);

startActivity(intent);
}
}
```

Listing 3: MainActivity.java

SecondActivity.java

```
\section*{MainActivity.java}
\begin{lstlisting}[style=myjava, caption={MainActivity.java}]
package com.example.twoactivity;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;

import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;

public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        EdgeToEdge.enable(this);
        setContentView(R.layout.activity_main);
        ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.
main), (v, insets) -> {
            Insets systemBars = insets.getInsets(WindowInsetsCompat.
Type.systemBars());
            v.setPadding(systemBars.left, systemBars.top, systemBars.
right, systemBars.bottom);
            return insets;
        });
    }

    public void onSendMessage(View view) {
        EditText messageView = (EditText) findViewById(R.id.message);
        String messageText = messageView.getText().toString();

        Intent intent = new Intent(this, SecondActivity.class);
        intent.putExtra("message", messageText);

        startActivity(intent);
    }
}
```

```
}
```

Listing 4: SecondActivity.java

strings.xml

```
<resources>
    <string name="app_name">TwoActivity</string>
    <string name="hint">Enter a message</string>
    <string name="send">Send message</string>
</resources>
```

Listing 5: strings.xml

Output:



Figure 1: Before sending the message

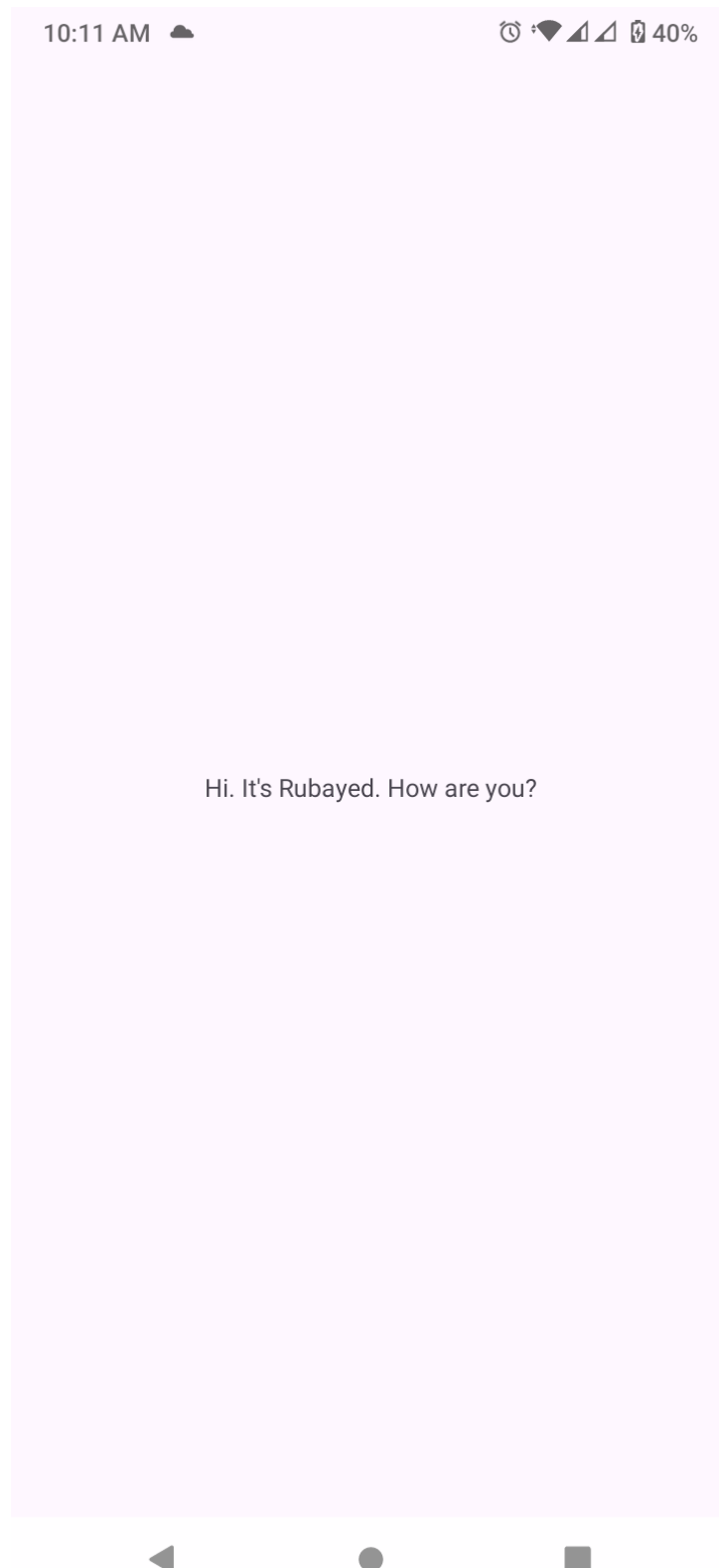


Figure 2: After sending the message