

Tworzenie aplikacji wieloekranowych w systemie Android

Na tych zajęciach pokażę, jak utworzyć aplikację na Androida, aby przejść z jednej aktywności do drugiej przy użyciu koncepcji **Explicit Intents** (*jawne intencje*). Poniżej znajdują się kroki tworzenia prostej aplikacji na Androida w celu przejścia z jednej aktywności do innej.

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"
    android:background="@color/white"
    tools:context=".FirstActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="24dp"
        android:text="First Activity"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/button"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:backgroundTint="@color/green"
        android:text="Next"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
```

```
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

FirstActivity.java

```
import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;

public class FirstActivity extends AppCompatActivity {

    // Declare Button object
    private Button nextActivityButton;

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

        // Initialize button using findViewById
        nextActivityButton = findViewById(R.id.button);

        // Set click listener for the button
        nextActivityButton.setOnClickListener(v -> {
            // Create Intent to start SecondActivity
            Intent intent = new Intent(FirstActivity.this,
SecondActivity.class);

            // Start the activity
            startActivity(intent);
        });
    }
}
```

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"
        android:background="@color/white"
        tools:context=".SecondActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="24dp"
        android:text="Second Activity"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/next_button"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent" />

    <Button
        android:id="@+id/prev_button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:backgroundTint="@color/green"
        android:text="Previous"
        android:textSize="24sp"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toStartOf="@+id/next_button"
        app:layout_constraintHorizontal_bias="0.5"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
```

```

<Button
    android:id="@+id/next_button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:backgroundTint="@color/green"
    android:text="Next"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.5"
    app:layout_constraintStart_toEndOf="@+id/prev_button"
    app:layout_constraintTop_toTopOf="parent" />

</androidx.constraintlayout.widget.ConstraintLayout>

```

SecondActivity.java

```

import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;

public class SecondActivity extends AppCompatActivity {

    // Define the global variables for buttons
    private Button nextButton;
    private Button previousButton;

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

        // Initialize buttons using findViewById
        nextButton = findViewById(R.id.next_button);
        previousButton = findViewById(R.id.prev_button);
    }
}

```

```

        // Add click listener for next button
        nextButton.setOnClickListener(v -> {
            // Intent to start ThirdActivity
            Intent intent = new Intent(SecondActivity.this,
ThirdActivity.class);

            // Start the activity
            startActivity(intent);
        });

        // Add click listener for previous button
        previousButton.setOnClickListener(v -> {
            // Intent to start FirstActivity
            Intent intent = new Intent(SecondActivity.this,
FirstActivity.class);

            // Start the activity
            startActivity(intent);
        });
    }
}

```

activity_third.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"
    android:background="@color/white"
    tools:context=".ThirdActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"

```

```
        android:layout_marginBottom="24dp"
        android:text="Third Activity"
        android:textSize="24sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toTopOf="@+id/previous_button"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent" />
```

```
<Button
```

```
    android:id="@+id/previous_button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:backgroundTint="@color/green"
    android:text="Previous"
    android:textSize="24sp"
    app:layout_constraintBottom_toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
```

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

ThirdActive.java

```
import android.content.Intent;
import android.os.Bundle;
import android.widget.Button;
import androidx.appcompat.app.AppCompatActivity;

public class ThirdActivity extends AppCompatActivity {

    // Declare global variable for the button
    private Button previousButton;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
```

```
setContentView(R.layout.activity_third);

// Initialize button using findViewById
previousButton = findViewById(R.id.previous_button);

// Set click listener for the button
previousButton.setOnClickListener(v -> {
    // Intent to navigate back to SecondActivity
    Intent intent = new Intent(ThirdActivity.this,
SecondActivity.class);

    // Start the activity
    startActivity(intent);
});
}
}
```