Create an android application to pass the data from activity to another to another activity in the same application using intent

1. **Set Up Your Project:** Open Android Studio and create a new project with an empty activity. Make sure you choose Kotlin as the programming language.
2. **Design Layouts:** Design the layouts for your two activities (**MainActivity** and **SecondActivity**) in XML files. For simplicity, you can use the default layout files generated by Android Studio.
3. **Define UI Elements:** In each activity's XML layout file, define UI elements like EditText, TextView, Button, etc., as needed.
4. **MainActivity.kt:** In your **MainActivity** class, write the code to send data to the **SecondActivity** using an Intent.

import android.content.Intent

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

import kotlinx.android.synthetic.main.activity\_main.\*

class MainActivity : AppCompatActivity() {

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

setContentView(R.layout.activity\_main)

// Button click listener

btnSendData.setOnClickListener {

// Get the data from EditText

val data = etData.text.toString().trim()

// Create an Intent to start SecondActivity

val intent = Intent(this, SecondActivity::class.java)

// Add data to the Intent

intent.putExtra("DATA\_KEY", data)

// Start the SecondActivity

startActivity(intent)

}

}

}

**SecondActivity.kt:** In your **SecondActivity** class, retrieve the data passed from **MainActivity** and display it.

import androidx.appcompat.app.AppCompatActivity

import android.os.Bundle

import kotlinx.android.synthetic.main.activity\_second.\*

class SecondActivity : AppCompatActivity() {

override fun onCreate(savedInstanceState: Bundle?) {

super.onCreate(savedInstanceState)

setContentView(R.layout.activity\_second)

// Get the data from the Intent

val data = intent.getStringExtra("DATA\_KEY")

// Display the data in TextView

tvReceivedData.text = data

}

}

1. **XML Layouts:** Make sure you have appropriate TextViews, EditTexts, and Buttons in your XML layout files for both activities.
2. **Declare Activities in Manifest:** Don't forget to declare your activities in the AndroidManifest.xml file.

<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" />

1. **Run Your Application:** Run your application on an emulator or a physical device to test it.

This should create a simple Android application in Kotlin that passes data from one activity to another using intents.