SMD TASK March 13, 2025

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Section: BCS-6B

Main activity.java

package com.example.march\_13\_hometask;  
  
import android.os.Bundle;  
  
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*);  
 // Load Fragment 1 initially  
 if (savedInstanceState == null) {  
 getSupportFragmentManager().beginTransaction()  
 .replace(R.id.*fragmentContainer*, new fragment1())  
 .commit();  
 }  
 }  
}

Fragment 1 JAVA

package com.example.march\_13\_hometask;  
  
import android.os.Bundle;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.fragment.app.Fragment;  
  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.Button;  
import android.widget.EditText;  
  
  
public class fragment1 extends Fragment {  
  
  
 private EditText editText;  
 private Button btnSend;  
  
 // *TODO: Rename and change types of parameters* public fragment1() {  
 // Required empty public constructor  
 }  
  
  
  
 @Override  
 public void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
  
 }  
  
 @Nullable  
 @Override  
 public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {  
 View view = inflater.inflate(R.layout.*fragment\_fragment1*, container, false);  
  
 editText = view.findViewById(R.id.*editText*);  
 btnSend = view.findViewById(R.id.*btnSend*);  
  
 btnSend.setOnClickListener(v -> {  
 String text = editText.getText().toString();  
  
 fragment2 fragment2 = new fragment2();  
 Bundle bundle = new Bundle();  
 bundle.putString("data1", text);  
 fragment2.setArguments(bundle);  
  
 getParentFragmentManager().beginTransaction()  
 .replace(R.id.*fragmentContainer*, fragment2)  
 .addToBackStack(null)  
 .commit();  
 });  
  
 return view;  
 }  
}

Fragment 2.java

package com.example.march\_13\_hometask;  
  
import android.os.Bundle;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.fragment.app.Fragment;  
  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
  
public class fragment2 extends Fragment {  
  
  
 private TextView textView;  
 private EditText editText;  
 private Button btnSend;  
 public fragment2() {  
 // Required empty public constructor  
 }  
  
  
 @Override  
 public void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
  
 }  
 @Nullable  
 @Override  
 public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {  
 View view = inflater.inflate(R.layout.*fragment\_fragment2*, container, false);  
  
 textView = view.findViewById(R.id.*textView*);  
 editText = view.findViewById(R.id.*editText*);  
 btnSend = view.findViewById(R.id.*btnSend*);  
  
 // Receive data from Fragment 1  
 Bundle bundle = getArguments();  
 if (bundle != null) {  
 String receivedText = bundle.getString("data1");  
 textView.setText("From Fragment 1: " + receivedText);  
 }  
  
 btnSend.setOnClickListener(v -> {  
 String text = editText.getText().toString();  
  
 fragment3 fragment3 = new fragment3();  
 Bundle newBundle = new Bundle();  
 newBundle.putString("data2", text);  
 fragment3.setArguments(newBundle);  
  
 getParentFragmentManager().beginTransaction()  
 .replace(R.id.*fragmentContainer*, fragment3)  
 .addToBackStack(null)  
 .commit();  
 });  
  
 return view;  
 }  
}

Fragment 3.java

package com.example.march\_13\_hometask;  
  
import android.os.Bundle;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.fragment.app.Fragment;  
  
import android.view.LayoutInflater;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.TextView;  
  
  
public class fragment3 extends Fragment {  
 private TextView textView;  
  
  
 public fragment3() {  
 // Required empty public constructor  
 }  
  
  
  
  
 @Override  
 public void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
  
 }  
  
  
 @Nullable  
 @Override  
 public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {  
 View view = inflater.inflate(R.layout.*fragment\_fragment3*, container, false);  
  
 textView = view.findViewById(R.id.*textView*);  
  
 // Receive data from Fragment 2  
 Bundle bundle = getArguments();  
 if (bundle != null) {  
 String receivedText = bundle.getString("data2");  
 textView.setText("Text from Fragment 2: " + receivedText);  
 }  
  
 return view;  
 }  
}

XML File:

<?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=".MainActivity">  
  
 <FrameLayout  
 android:id="@+id/fragmentContainer"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 </FrameLayout>  
</androidx.constraintlayout.widget.ConstraintLayout>

Fragment 1 XML

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:orientation="vertical"  
 android:paddingTop="50dp"  
 android:paddingLeft="20dp"  
 android:paddingRight="20dp"  
 android:layout\_height="match\_parent"  
 tools:context=".fragment1">  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter text here" />  
 <Button  
 android:id="@+id/btnSend"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Send to next fragment" />  
  
</LinearLayout>

Fragment 2 XML

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:orientation="vertical"  
 android:paddingTop="50dp"  
 android:paddingLeft="20dp"  
 android:paddingRight="20dp"  
 android:layout\_height="match\_parent"  
 tools:context=".fragment1">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Data from Fragment 1"  
 android:textSize="18sp" />  
  
 <EditText  
 android:id="@+id/editText"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:hint="Enter text" />  
  
 <Button  
 android:id="@+id/btnSend"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Send to Fragment 3"/>  
</LinearLayout>

Fragment 3 XML

<?xml version="1.0" encoding="utf-8"?>  
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:orientation="vertical"  
 android:paddingTop="50dp"  
 android:paddingLeft="20dp"  
 android:paddingRight="20dp"  
 android:layout\_height="match\_parent"  
 tools:context=".fragment3">  
  
 <TextView  
 android:id="@+id/textView"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Received Data from Fragment 2"  
 android:textSize="18sp"/>  
</LinearLayout>

Output: Fragment 1

A screen shot of a cell phone

AI-generated content may be incorrect.

A black cell phone with a white screen

AI-generated content may be incorrect.A close up of a cell phone

AI-generated content may be incorrect.

Fragment 2 and 3

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