

EX:NO:04

ANDROID FRAGMENTS

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DATE:01/03/2024

AIM:-

Develop an android application to create two activities named as Student Basic Details (Register No., Name, Department) and Student Mark Details (SSLC, HSC, UG). Write an android code to combine these two activities in single screen using android fragment.

PROCEDURE:-

Step 1: Create a new project.

Step 2: Create a layout for each activity.

Step 3: Create corresponding kotlin classes.

Step 4: Implement fragment layouts.

Step 5: Modify MainActivity layout.

Step 6: Modify MainActivity.kt.

Step 7: Run the application.

PROGRAM CODE:-

AndroidManifest.xml:

```
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.studentdetails">
    <application
        android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
```

```
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
    <activity android:name=".StudentBasicDetailsActivity" />
    <activity android:name=".StudentMarkActivity" />
    <activity android:name=".MainActivity">
        <intent-filter>
            <action android:name="android.intent.action.MAIN" />
            <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
    </activity>
</application>
</manifest>
```

activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">
    <FrameLayout
        android:id="@+id/fragment_container"
        android:layout_width="match_parent"
```

```
        android:layout_height="match_parent" />
</RelativeLayout>
```

MainActivity.kt:

```
package com.example.studentdetails

import androidx.appcompat.app.AppCompatActivity
import android.os.Bundle

class MainActivity : AppCompatActivity() {

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)
        supportFragmentManager.beginTransaction()
            .replace(R.id.fragment_container, StudentBasicDetailsFragment())
            .commit()
    }
}
```

StudentBasicDetailsFragment.kt:

```
package com.example.studentdetails

import android.os.Bundle
import androidx.fragment.app.Fragment
import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
```

```
class StudentBasicDetailsFragment : Fragment() {  
    override fun onCreateView(  
        inflater: LayoutInflater, container: ViewGroup?,  
        savedInstanceState: Bundle?  
    ): View? {  
        // Inflate the layout for this fragment  
        return inflater.inflate(R.layout.fragment_student_basic_details, container,  
false)  
    }  
}
```

StudentMarkDetailsFragment.kt:

```
package com.example.studentdetails  
  
import android.os.Bundle  
  
import androidx.fragment.app.Fragment  
  
import android.view.LayoutInflater  
  
import android.view.View  
  
import android.view.ViewGroup  
  
class StudentMarkDetailsFragment : Fragment() {  
    override fun onCreateView(  
        inflater: LayoutInflater, container: ViewGroup?,  
        savedInstanceState: Bundle?  
    ): View? {  
        // Inflate the layout for this fragment
```

```
        return inflater.inflate(R.layout.fragment_student_mark_details, container,
false)

    }

}
```

OUTPUT:-



RESULT:-

Thus to develop an android application to create two activities named as Student Basic Details and Student Mark Details.is implemented and executed successfully.