

Solution:-

Design:-

activity_main.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:id="@+id/activity_register_page"
    android:layout_width="match_parent"
    android:orientation="horizontal"
    android:layout_height="match_parent"
    >

    <fragment class="com.anirban.myapp.fragment1.StudentsListFragment"
        android:layout_width="wrap_content"
        android:layout_marginBottom="94dp"
        android:layout_marginTop="94dp"
        android:layout_weight="1"
        android:id="@+id/listFrag"
        android:layout_height="match_parent"></fragment>

    <fragment class="com.anirban.myapp.fragment1.DetailsStudentsFragment"
        android:layout_width="match_parent"
        android:layout_weight="1"
        android:id="@+id/detailsFrag"
        android:layout_height="match_parent"></fragment>
</LinearLayout>
```

activity_details_screen.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:id="@+id/activity_register_page"
    android:layout_width="match_parent"
    android:orientation="horizontal"
    android:layout_height="match_parent"
    >

    <fragment class="com.anirban.myapp.fragment1.DetailsStudentsFragment"
        android:layout_width="match_parent"
        android:layout_weight="1"
        android:layout_height="match_parent"></fragment>
</LinearLayout>
```

studentsdetails.xml

```
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/pager"
    android:background="@color/colorPrimary"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <TextView android:textSize="26sp"
        android:textStyle="bold"
        android:textColor="@android:color/white"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true"
        android:layout_marginTop="19dp"
        android:id="@+id/textView2" />
</RelativeLayout>
```

studentslist.xml

```
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/pager"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <ListView android:id="@+id/listView"
        android:layout_width="match_parent"

        android:layout_height="match_parent"
        android:background="@android:color/white"
        android:layout_alignParentTop="true"
        android:layout_alignParentLeft="true"
        android:layout_alignParentStart="true">

    </ListView>
</RelativeLayout>
```

Controls:-

MainActivity.java

```
package com.anirban.myapp.fragment1;

import android.os.Bundle;
import android.support.v4.app.Fragment;
import android.support.v4.app.FragmentManager;
import android.support.v7.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity implements
StudentsListFragment.StudentListClickListener{

    boolean isMobile = true;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        FragmentManager mgr = getSupportFragmentManager();

        Fragment detailFrag = mgr.findFragmentById(R.id.detailsFrag);

        if(detailFrag == null){
            // am a mobile beacuse in mobile there is detaiflFrag will by defa
            isMobile = true;
        } else{
            //am a table..beakc by defaul detailFra wil be load
            isMobile = false;
        }

        // is it mobile or table
        //if table...click -->update side screen
        //if mobile--start another activity...DetailsCreen...
    }

    @Override
    public void studentListCliked(int pos) { // parent click
        // i need to call another fragment
        FragmentManager mgr = getSupportFragmentManager();
        DetailsStudentsFragment detailFrag = (DetailsStudentsFragment)
mgr.findFragmentById(R.id.detailsFrag);
        if(detailFrag != null)
            detailFrag.updateScreen(pos);
    }
}
```

StudentsListFragment.java

```
package com.anirban.myapp.fragment1;
import android.app.Activity;
import android.app.Fragment;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.AdapterView.OnItemClickListener;
import android.widget.ArrayAdapter;
import android.widget.ListView;

/**
 * Created by SKamasala2 on 1/23/2017.
 */

public class StudentsListFragment extends Fragment {

    StudentListClickListener listener;

    @Override
    public void onAttach(Activity context) {
        super.onAttach(context);
        listener = (StudentListClickListener) context;
    }

    @Nullable
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {
        super.onCreateView(inflater, container, savedInstanceState);

        View v = inflater.inflate(R.layout.studentslist, null);
        final ListView listView = (ListView) v.findViewById(R.id.listView);
        String array[]={"layout1", "layout2", "layout3", "layout4"};
        ArrayAdapter arrayAdapter = new ArrayAdapter(getActivity(), android.R.layout.simple_list_item_1, array);
        listView.setAdapter(arrayAdapter);

        listView.setOnItemClickListener(new AdapterView.OnItemClickListener() {
            @Override
            public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
                listener.studentListClicked(i);
            }
        });
        return v;
    }

    @Override
    public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
        super.onCreateOptionsMenu(menu, inflater); // 1.add 2. update
    }

    interface StudentListClickListener { // listener or callback....
        void studentListClicked(int pos);
    }
}
```

DetailsStudentsFragment.java

```
package com.anirban.myapp.fragment1;

import android.os.Bundle;
import android.support.annotation.Nullable;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

/**
 * Created by SKamasala2 on 1/23/2017.
 */

public class DetailsStudentsFragment extends android.support.v4.app.Fragment {
    @Nullable
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container, Bundle savedInstanceState) {
        super.onCreateView(inflater, container, savedInstanceState);
        return inflater.inflate(R.layout.studentsdetails, null); // convert xml desing
        into java desing...
    }

    public void updateScreen(int pos){
        TextView textView2 = (TextView) getView().findViewById(R.id.textView2);
        pos=pos+1;
        textView2.setText("layout"+ pos);
    }
}
```

DetailsScreen.java

```
package com.anirban.myapp.fragment1;

import android.support.v7.app.AppCompatActivity;
import android.os.Bundle;

public class DetailsScreen extends AppCompatActivity {

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

Output:-

