**Assigment: 3**

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**Section: BSCS 6B**

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**Create Layout Files:**

<?xml version="1.0" encoding="utf-8"?>

<androidx.drawerlayout.widget.DrawerLayout xmlns:android="http://schemas.android.com/apk/res/android"

xmlns:app="http://schemas.android.com/apk/res-auto"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:id="@+id/drawer\_layout">

<!-- Main content -->

<FrameLayout

android:id="@+id/container"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent" />

<!-- Navigation drawer -->

<com.google.android.material.navigation.NavigationView

android:id="@+id/navigation\_view"

android:layout\_width="wrap\_content"

android:layout\_height="match\_parent"

android:layout\_gravity="start"

app:menu="@menu/drawer\_menu"

app:headerLayout="@layout/nav\_header" />

</androidx.drawerlayout.widget.DrawerLayout>

**nav\_header.xml**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:orientation="vertical"

android:layout\_width="match\_parent"

android:layout\_height="wrap\_content"

android:padding="16dp"

android:background="?attr/colorPrimaryDark">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Navigation Header"

android:textColor="@android:color/white"

android:textSize="18sp" />

</LinearLayout>

**drawer\_menu.xml**

<?xml version="1.0" encoding="utf-8"?>

<menu xmlns:android="http://schemas.android.com/apk/res/android">

<item

android:id="@+id/nav\_home"

android:title="Home" />

<item

android:id="@+id/nav\_gallery"

android:title="Gallery" />

<item

android:id="@+id/nav\_slideshow"

android:title="Slideshow" />

</menu>

**MainActivity.java**

package com.example.navigationdrawer;

import android.os.Bundle;

import android.view.MenuItem;

import androidx.annotation.NonNull;

import androidx.appcompat.app.ActionBarDrawerToggle;

import androidx.appcompat.app.AppCompatActivity;

import androidx.core.view.GravityCompat;

import androidx.drawerlayout.widget.DrawerLayout;

import androidx.fragment.app.Fragment;

import androidx.fragment.app.FragmentManager;

import androidx.fragment.app.FragmentTransaction;

import com.google.android.material.navigation.NavigationView;

public class MainActivity extends AppCompatActivity {

private DrawerLayout drawerLayout;

private ActionBarDrawerToggle toggle;

private NavigationView navigationView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

drawerLayout = findViewById(R.id.drawer\_layout);

navigationView = findViewById(R.id.navigation\_view);

toggle = new ActionBarDrawerToggle(this, drawerLayout, R.string.open, R.string.close);

drawerLayout.addDrawerListener(toggle);

toggle.syncState();

getSupportActionBar().setDisplayHomeAsUpEnabled(true);

navigationView.setNavigationItemSelectedListener(new NavigationView.OnNavigationItemSelectedListener() {

@Override

public boolean onNavigationItemSelected(@NonNull MenuItem item) {

int id = item.getItemId();

Fragment fragment = null;

if (id == R.id.nav\_home) {

fragment = new HomeFragment();

} else if (id == R.id.nav\_gallery) {

fragment = new GalleryFragment();

} else if (id == R.id.nav\_slideshow) {

fragment = new SlideshowFragment();

}

if (fragment != null) {

FragmentManager fragmentManager = getSupportFragmentManager();

FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();

fragmentTransaction.replace(R.id.container, fragment);

fragmentTransaction.commit();

}

drawerLayout.closeDrawer(GravityCompat.START);

return true;

}

});

if (savedInstanceState == null) {

navigationView.setCheckedItem(R.id.nav\_home);

getSupportFragmentManager().beginTransaction().replace(R.id.container, new HomeFragment()).commit();

}

}

@Override

public boolean onOptionsItemSelected(@NonNull MenuItem item) {

if (toggle.onOptionsItemSelected(item)) {

return true;

}

return super.onOptionsItemSelected(item);

}

}

**Create Fragments**:

package com.example.navigationdrawer;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.fragment.app.Fragment;

public class HomeFragment extends Fragment {

@Nullable

@Override

public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {

return inflater.inflate(R.layout.fragment\_home, container, false);

}

}

**GalleryFragment.java**

package com.example.navigationdrawer;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.fragment.app.Fragment;

public class GalleryFragment extends Fragment {

@Nullable

@Override

public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {

return inflater.inflate(R.layout.fragment\_gallery, container, false);

}

}

**fragment\_home.xml**

xml

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<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Home Fragment"

android:textSize="24sp" />

</LinearLayout>

**fragment\_gallery.xml**

xml

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<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Gallery Fragment"

android:textSize="24sp" />

</LinearLayout>

**fragment\_slideshow.xml**

xml

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<?xml version="1.0" encoding="utf-8"?>

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"

android:layout\_width="match\_parent"

android:layout\_height="match\_parent"

android:gravity="center"

android:orientation="vertical">

<TextView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Slideshow Fragment"

android:textSize="24sp" />

</LinearLayout>

**SlideshowFragment.java**

package com.example.navigationdrawer;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.View;

import android.view.ViewGroup;

import androidx.annotation.NonNull;

import androidx.annotation.Nullable;

import androidx.fragment.app.Fragment;

public class SlideshowFragment extends Fragment {

@Nullable

@Override

public View onCreateView(@NonNull LayoutInflater inflater, @Nullable ViewGroup container, @Nullable Bundle savedInstanceState) {

return inflater.inflate(R.layout.fragment\_slideshow, container, false);

}

}