Министерство науки и высшего образования Российской Федерации

Федерального государственного бюджетное образовательное учреждение высшего образования

«Российской экономический университет имени Г. В. Плеханова»

**МОСКОВСКИЙ ПРИБОРОСТРОИТЕЛЬНЫЙ ТЕХНИКУМ.**

ПРАКТИЧЕСКИЕ РАБОТЫ № 4

ДИСЦИПЛИНА: «РАЗРАБОТКА МОБИЛЬНЫХ ПРИЛОЖЕНИЙ»

Тема: Работа с DraverNavigationView

Специальность: 09.02.07 Информационные системы и программирование

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ПРАКТИЧЕСКАЯ РАБОТА №4

Работа с DraverNavigationView

Цель работы: научится создавать приложения, которые могут взаимодействовать с элементом DraverNavigationView.

1. Build.gradle (app)

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| apply **plugin**: **'com.android.application'** apply **plugin**: **'kotlin-android'** apply **plugin**: **'kotlin-android-extensions'** android **{** compileSdkVersion 30  buildToolsVersion **"30.0.1"** defaultConfig **{** applicationId **"com.example.navigationview"** minSdkVersion 16  targetSdkVersion 30  versionCode 1  versionName **"1.0"** testInstrumentationRunner **"androidx.test.runner.AndroidJUnitRunner"  }** buildTypes **{** release **{** minifyEnabled **false** proguardFiles getDefaultProguardFile(**'proguard-android-optimize.txt'**), **'proguard-rules.pro'  }  }** kotlinOptions **{** jvmTarget = **'1.8'  } }** dependencies **{** implementation fileTree(**dir**: **"libs"**, **include**: [**"\*.jar"**])  implementation **"org.jetbrains.kotlin:kotlin-stdlib:**$kotlin\_version**"** implementation **'androidx.core:core-ktx:1.3.1'** implementation **'androidx.appcompat:appcompat:1.2.0'** implementation **'androidx.legacy:legacy-support-v4:1.0.0'** implementation **'com.google.android.material:material:1.2.1'** implementation **'androidx.constraintlayout:constraintlayout:2.0.1'** implementation **'androidx.navigation:navigation-fragment:2.3.0'** implementation **'androidx.navigation:navigation-ui:2.3.0'** implementation **'androidx.lifecycle:lifecycle-extensions:2.2.0'** implementation **'androidx.navigation:navigation-fragment-ktx:2.3.0'** implementation **'androidx.navigation:navigation-ui-ktx:2.3.0'** testImplementation **'junit:junit:4.12'** androidTestImplementation **'androidx.test.ext:junit:1.1.2'** androidTestImplementation **'androidx.test.espresso:espresso-core:3.3.0' }** |

1. Код программы

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| **package** com.example.navigationview  **import** androidx.appcompat.app.AppCompatActivity **import** android.os.Bundle **import** android.util.Log **import** android.view.MenuItem **import** androidx.appcompat.widget.Toolbar **import** androidx.drawerlayout.widget.DrawerLayout **import** androidx.navigation.Navigation **import** androidx.navigation.findNavController **import** androidx.navigation.fragment.NavHostFragment.findNavController **import** androidx.navigation.ui.\* **import** com.google.android.material.navigation.NavigationView **import** kotlinx.android.synthetic.main.app\_bar.\*  **class** MainActivity : AppCompatActivity() {   **private lateinit var** appBarConfiguration: AppBarConfiguration   **override fun** onCreate(savedInstanceState: Bundle?) {  **super**.onCreate(savedInstanceState)  setContentView(R.layout.activity\_main)   **val** toolbar: Toolbar = findViewById(R.id.toolbar)  setSupportActionBar(toolbar)   **val** drawerLayout: DrawerLayout = findViewById(R.id.drawer)  **val** navView: NavigationView = findViewById(R.id.navigationView)  **val** navController = findNavController(R.id.nav\_host\_fragment)   appBarConfiguration = AppBarConfiguration(setOf(  R.id.home, R.id.profile,R.id.setings), drawerLayout)  *//При момощи этой хуйни мы переходим по фрагмента с помощью их id* setupActionBarWithNavController(navController, appBarConfiguration)  NavigationUI.setupWithNavController(navView, navController);  }   **override fun** onSupportNavigateUp(): Boolean {  **val** navController = findNavController(R.id.nav\_host\_fragment)  **return** navController.navigateUp(appBarConfiguration) || **super**.onSupportNavigateUp()  } } |

1. Menu

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**menu xmlns:app="http://schemas.android.com/apk/res-auto"  xmlns:android="http://schemas.android.com/apk/res/android"**>   <**item android:id="@+id/home" android:title="Home"** />  <**item android:id="@+id/profile" android:title="Profile"** />  <**item android:id="@+id/setings" android:title="setings"** /> </**menu**> |

1. Nav\_graph

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**navigation 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/nav\_praph"  app:startDestination="@id/home"**>   <**fragment  android:id="@+id/home"  android:name="com.example.navigationview.Fragment1"  android:label="fragment\_1"  tools:layout="@layout/fragment\_1"** >  <**action  android:id="@+id/action\_home\_to\_profile"  app:destination="@id/profile"  app:popUpTo="@id/home"** />  </**fragment**>  <**fragment  android:id="@+id/profile"  android:name="com.example.navigationview.Fragment2"  android:label="fragment\_2"  tools:layout="@layout/fragment\_2"** >  <**action  android:id="@+id/action\_profile\_to\_setings"  app:destination="@id/setings"  app:popUpTo="@id/profile"** />  </**fragment**>  <**fragment  android:id="@+id/setings"  android:name="com.example.navigationview.BlankFragment"  android:label="fragment\_blank"  tools:layout="@layout/fragment\_blank"** /> </**navigation**> |

1. Content

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| *<?***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:layout\_width="match\_parent"  android:layout\_height="match\_parent"  app:layout\_behavior="@string/appbar\_scrolling\_view\_behavior"  tools:showIn="@layout/app\_bar"**>   <**fragment  android:id="@+id/nav\_host\_fragment"  android:name="androidx.navigation.fragment.NavHostFragment"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  app:defaultNavHost="true"  app:layout\_constraintLeft\_toLeftOf="parent"  app:layout\_constraintRight\_toRightOf="parent"  app:layout\_constraintTop\_toTopOf="parent"  app:navGraph="@navigation/nav\_praph"** />  </**androidx.constraintlayout.widget.ConstraintLayout**> |

1. Activity\_main

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| *<?***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"  xmlns:tools="http://schemas.android.com/tools"  android:id="@+id/drawer"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"  android:fitsSystemWindows="true"  tools:openDrawer="start"**>   <**include  layout="@layout/app\_bar"  android:layout\_width="match\_parent"  android:layout\_height="match\_parent"** />    <**com.google.android.material.navigation.NavigationView  android:id="@+id/navigationView"  android:layout\_width="wrap\_content"  android:layout\_height="match\_parent"  android:layout\_gravity="start"  android:fitsSystemWindows="true"  app:headerLayout="@layout/drawer\_header"  app:menu="@menu/menu"** />   </**androidx.drawerlayout.widget.DrawerLayout**> |

1. App\_bar

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| *<?***xml version="1.0" encoding="utf-8"***?>* <**androidx.coordinatorlayout.widget.CoordinatorLayout 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:layout\_width="match\_parent"  android:layout\_height="match\_parent"  tools:context=".MainActivity"**>    <**com.google.android.material.appbar.AppBarLayout  android:layout\_width="match\_parent"  android:layout\_height="wrap\_content"  android:theme="@style/AppTheme.AppBarOverlay"**>   <**androidx.appcompat.widget.Toolbar  android:id="@+id/toolbar"  android:layout\_width="match\_parent"  android:layout\_height="?attr/actionBarSize"  android:background="@color/colorPrimary"  android:theme="@style/AppTheme"  app:popupTheme="@style/AppTheme.PopupOverlay"** />  </**com.google.android.material.appbar.AppBarLayout**>   <**include layout="@layout/content"** />   </**androidx.coordinatorlayout.widget.CoordinatorLayout**> |

Вывод: научился создавать мобильное приложение с помощью навигационной панели DrawerNavigationView.