

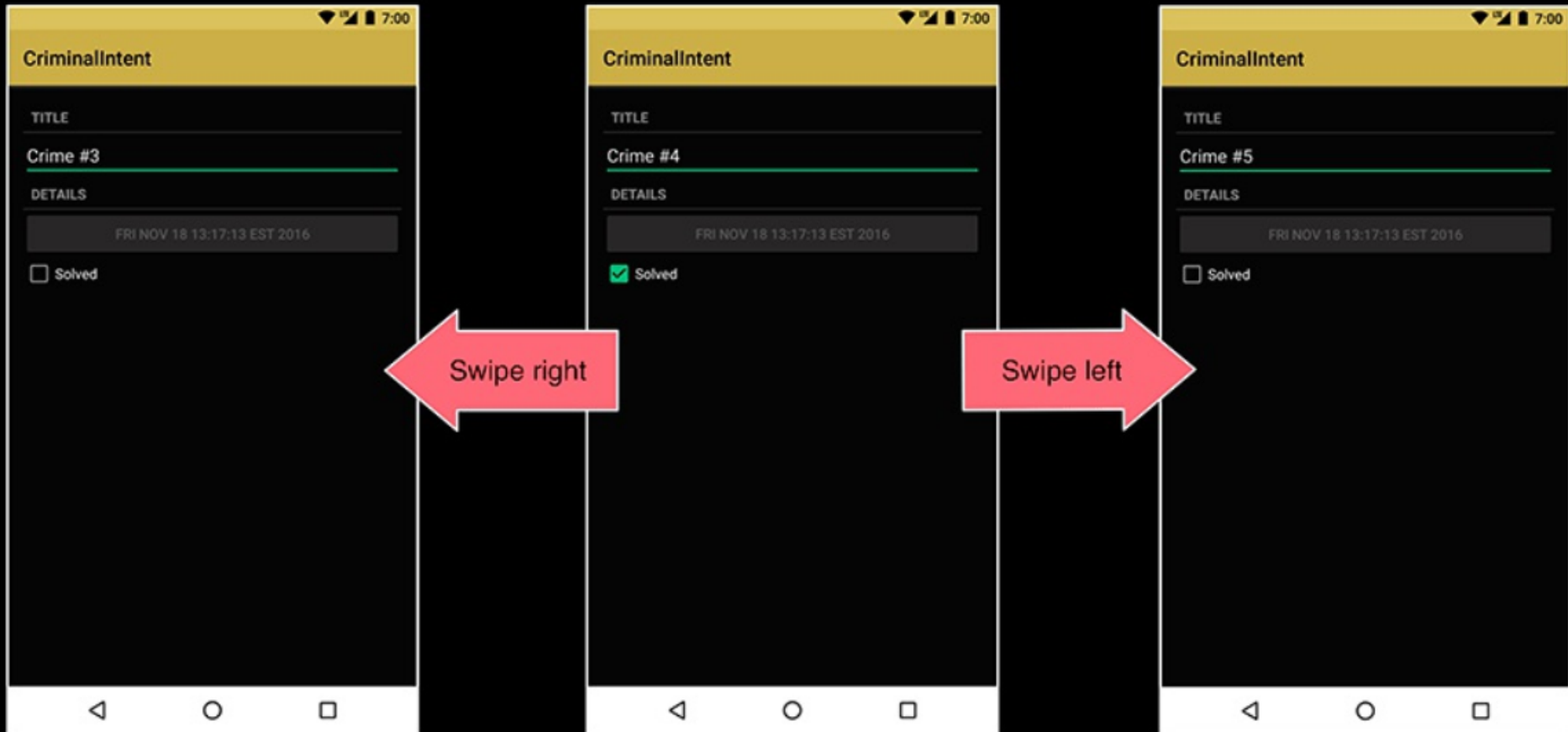


PROGRAMOWANIE URZĄDZEŃ MOBILNYCH

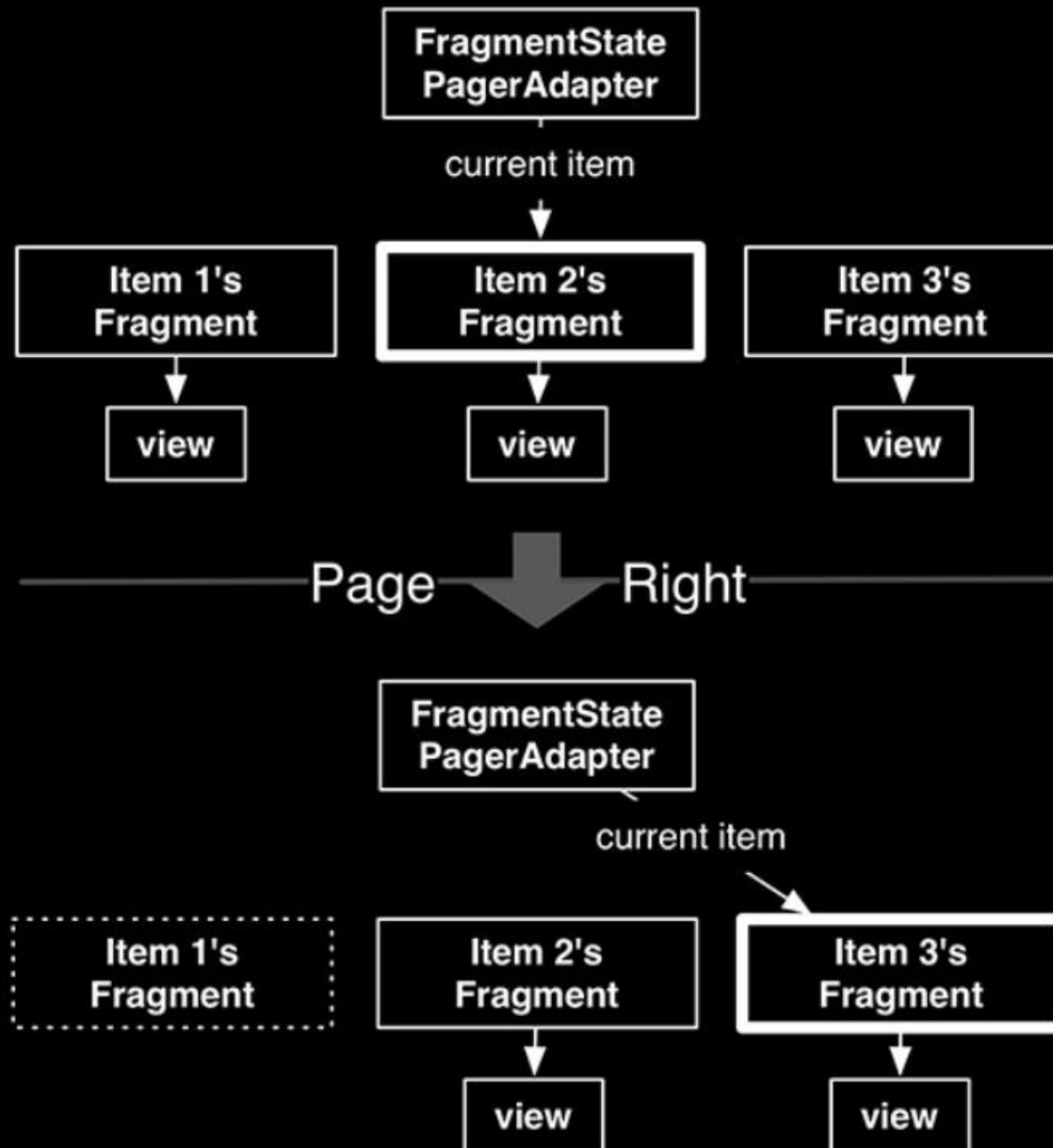
WYKŁAD 5

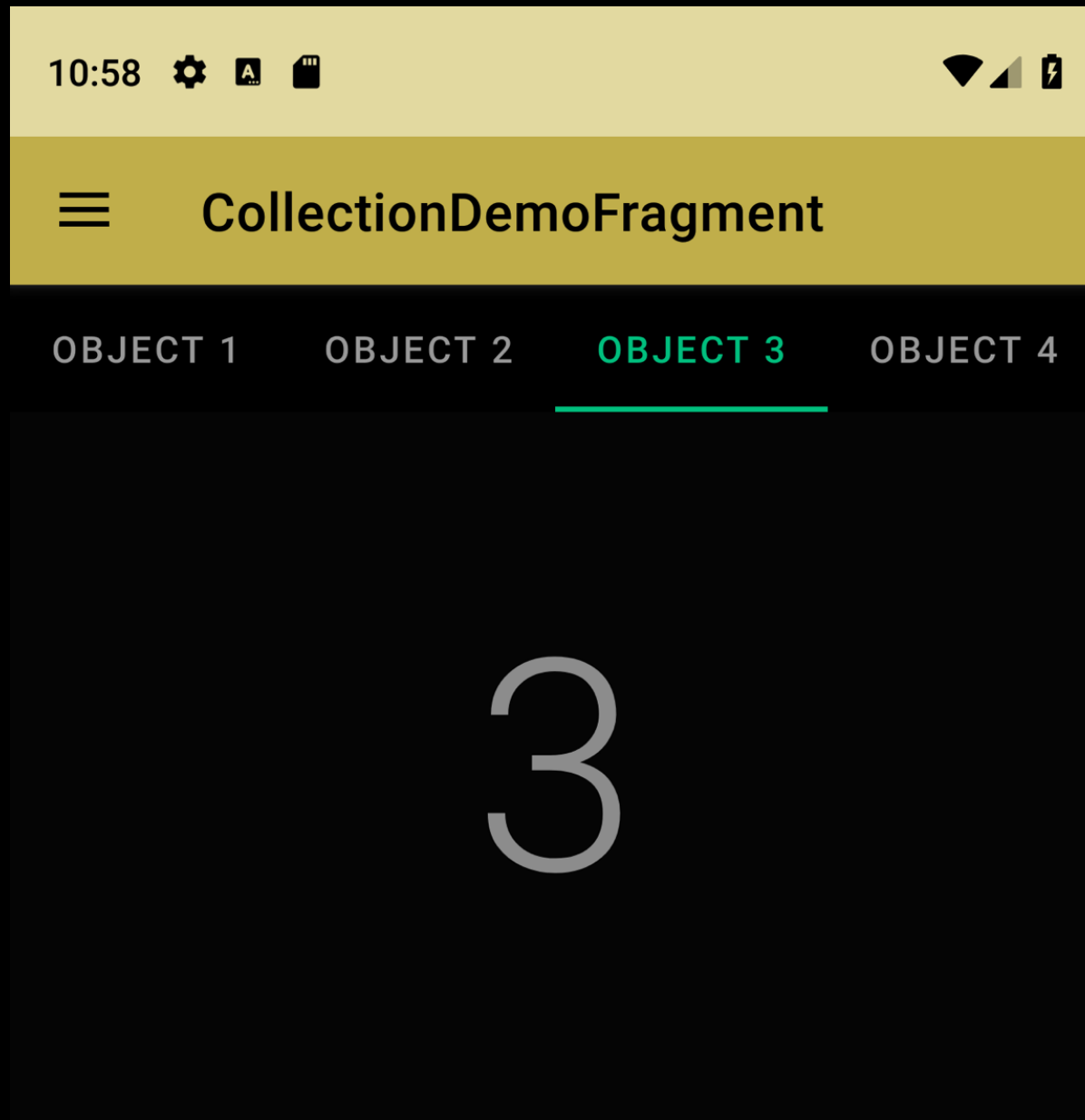
- ViewPager2
- Jetpack Navigation
- BottomNavigation
- TabLayout

Criminal List



Criminal List

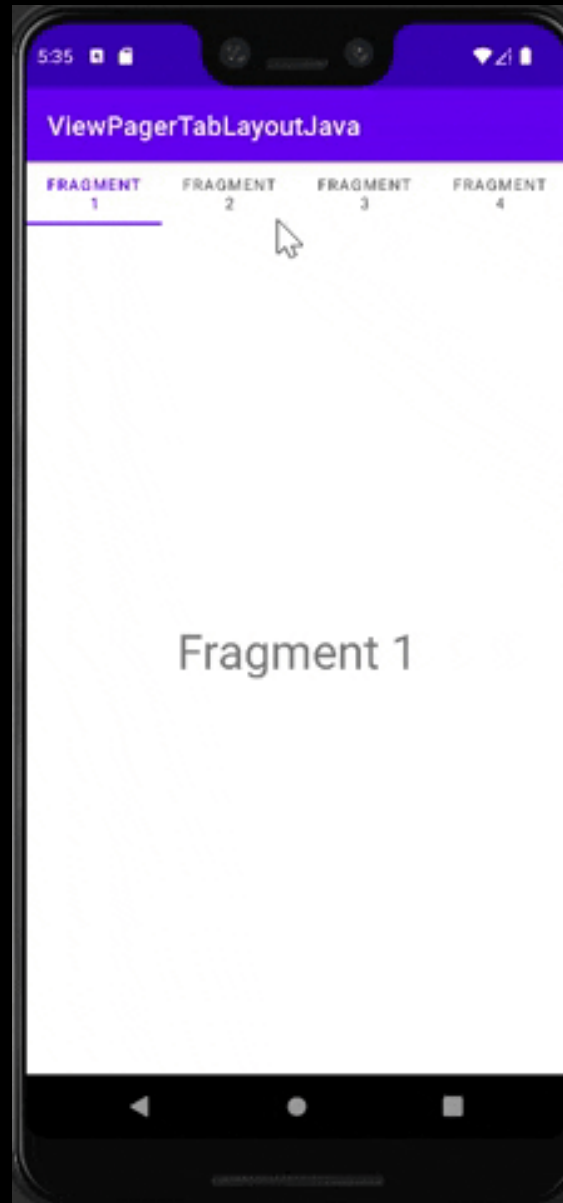




```
class PagerAdapter(fragmentActivity: FragmentActivity) : FragmentStateAdapter(fragmentActivity) {  
    override fun getItemCount(): Int = MainActivity.num  
  
    override fun createFragment(position: Int): Fragment {  
        return TemplateFragment(position)  
    }  
}
```

```
class PagerAdapter : RecyclerView.Adapter<PagerAdapter.ViewHolder>() {  
  
    class ViewHolder(view: View) : RecyclerView.ViewHolder(view) {  
  
        val textView: TextView = view.findViewById(R.id.textView)  
  
        fun bind(text: String){  
            textView.text = text  
        }  
    }  
  
    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): ViewHolder {  
        return ViewHolder(  
            LayoutInflater.from(parent.context).inflate(  
                R.layout.item_view, parent, false  
            )  
        )  
    }  
  
    override fun onBindViewHolder(holder: ViewHolder, position: Int) {  
        holder.bind(MainActivity.values[position])  
    }  
  
    override fun getItemCount(): Int = MainActivity.values.size  
}
```

ViewPager2 + TabLayout



```
const val arg = "key"

override fun createFragment(position: Int): Fragment {
    val fragment = TemplateFragment()
    fragment.arguments = Bundle().apply {
        putInt(arg, position + 1)
    }
}
```



```
<LinearLayout 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"
    android:orientation="vertical"
    tools:context=".MainActivity">
```

```
    <com.google.android.material.tabs.TabLayout
        android:id="@+id/tabLayout"
        android:layout_width="match_parent"
        android:layout_height="wrap_content" />
```

```
    <androidx.viewpager2.widget.ViewPager2
        android:id="@+id/viewPager"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1" />
```

```
LinearLayout>
```

```
<LinearLayout 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"
    android:orientation="vertical"
    tools:context=".MainActivity">
```

```
    <com.google.android.material.tabs.TabLayout
        android:id="@+id/tabLayout"
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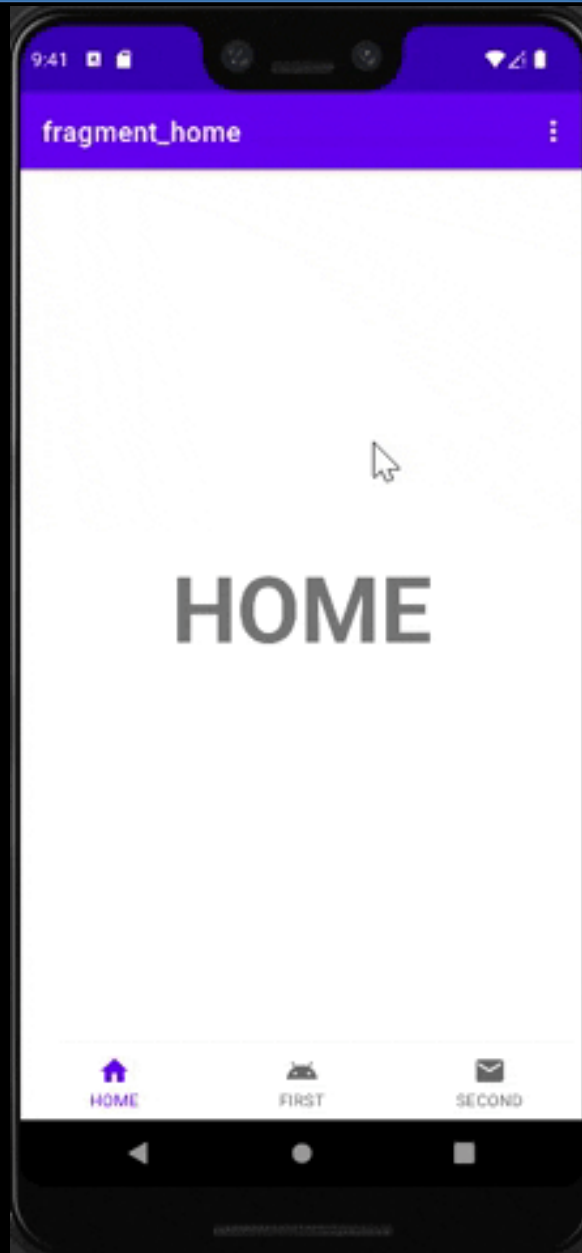
```
    <androidx.viewpager2.widget.ViewPager2
        android:id="@+id/viewPager"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1" />
```

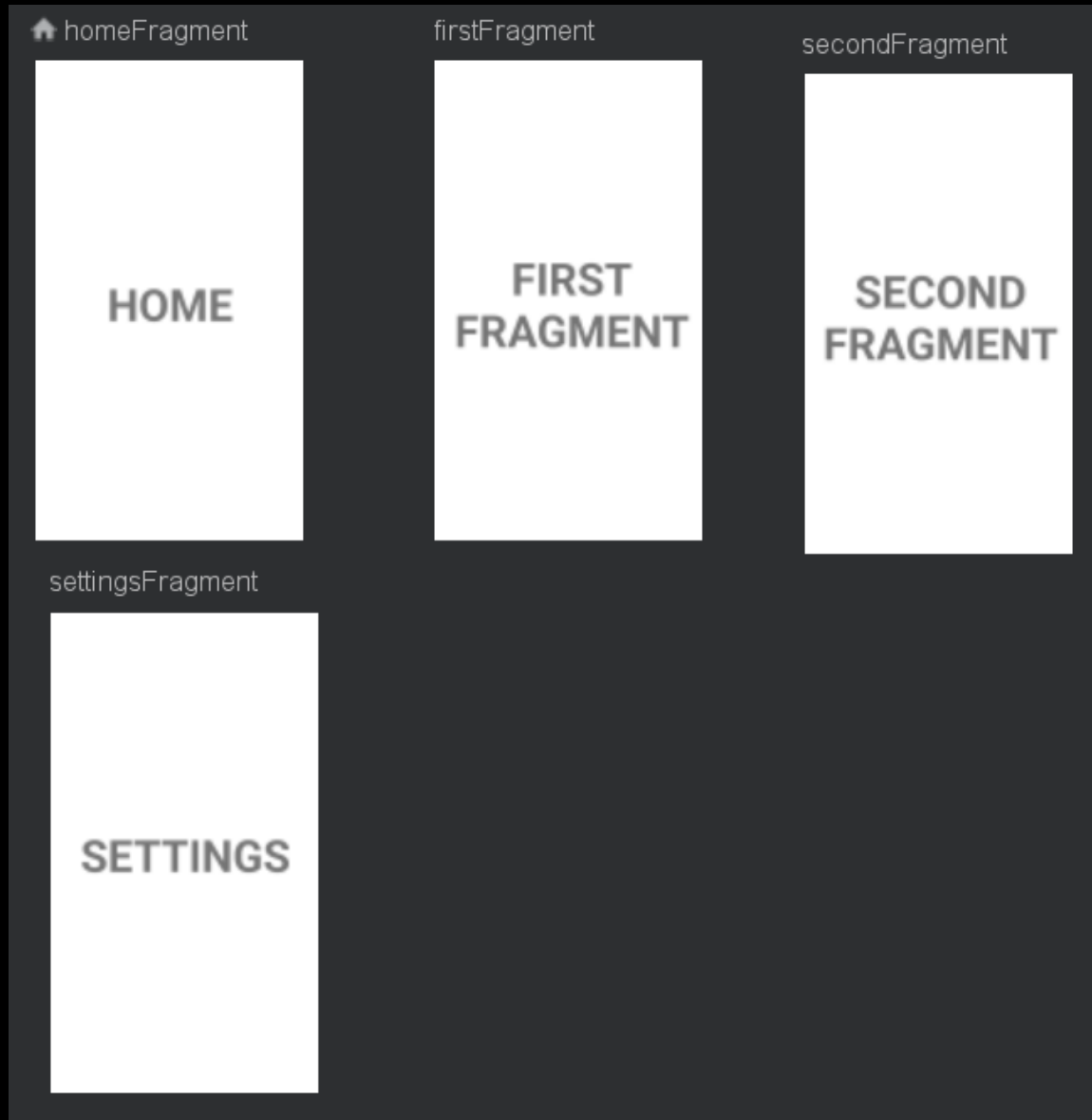
```
LinearLayout>
```

```
val viewPager2 = findViewById<ViewPager2>(R.id.viewPager)  
viewPager2.apply {adapter = PagerAdapter(this@MainActivity)}
```

```
val tabLayout: TabLayout = findViewById(R.id.tabLayout)  
TabLayoutMediator(tabLayout, viewPager2){ tab, position ->  
    tab.text = "Fragment ${position + 1}"  
}.attach()
```

- instancję TabLayout
- instancję ViewPager
- TabLayoutMediator.TabConfigurationStrategy





```
xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@id/homeFragment"
        android:icon="@drawable/ic_home"
        android:title="HOME" />
    <item
        android:id="@id/firstFragment"
        android:icon="@drawable/ic_android"
        android:title="FIRST" />

    <item
        android:id="@id/secondFragment"
        android:icon="@drawable/ic_email"
        android:title="SECOND" />
</menu>
```

```
xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".MainActivity">

    <androidx.fragment.app.FragmentContainerView
        android:id="@+id/nav_host_fragment"
        android:name="androidx.navigation.fragment.NavHostFragment"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1"
        app:defaultNavHost="true"
        app:navGraph="@navigation/navigation"/>

    <com.google.android.material.bottomnavigation.BottomNavigationView
        android:id="@+id/bottom_nav_view"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:menu="@menu/bottom_nav_menu" />

</LinearLayout>
```

```
private val navController: NavController by lazy {  
    val navHostFragment = supportFragmentManager.findFragmentById(R.id.nav_host_fragment)  
        as NavHostFragment  
    navHostFragment.findNavController()  
}
```

```
val bottomNav = findViewById<BottomNavigationView>(R.id.bottom_nav_view)  
bottomNav?.setupWithNavController(navController)
```

```
private val appBarConfiguration: AppBarConfiguration by lazy {  
    AppBarConfiguration(navController.graph)  
}
```

```
setupActionBarWithNavController(navController, appBarConfiguration)
```



```
private val appBarConfiguration: AppBarConfiguration by lazy {  
    AppBarConfiguration(navController.graph)  
}
```

```
setupActionBarWithNavController(navController, appBarConfiguration)
```

```
override fun onSupportNavigateUp(): Boolean {  
    return navController.navigateUp(appBarConfiguration)  
        || super.onSupportNavigateUp()  
}
```