EDC
DR2 Des. Android

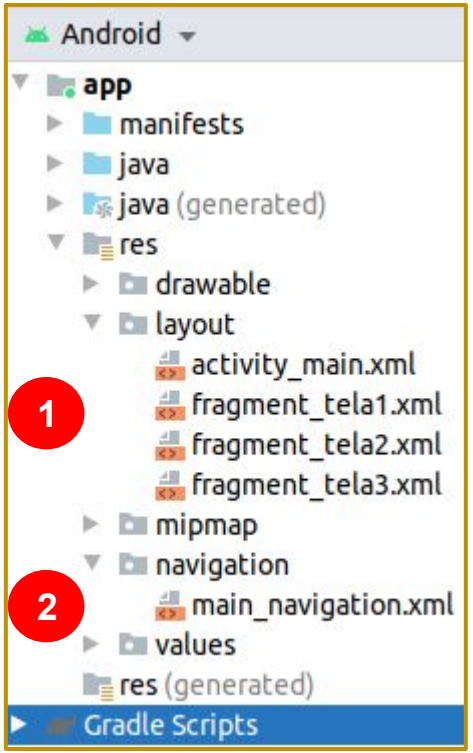
Desenvolvimento de Interfaces Android

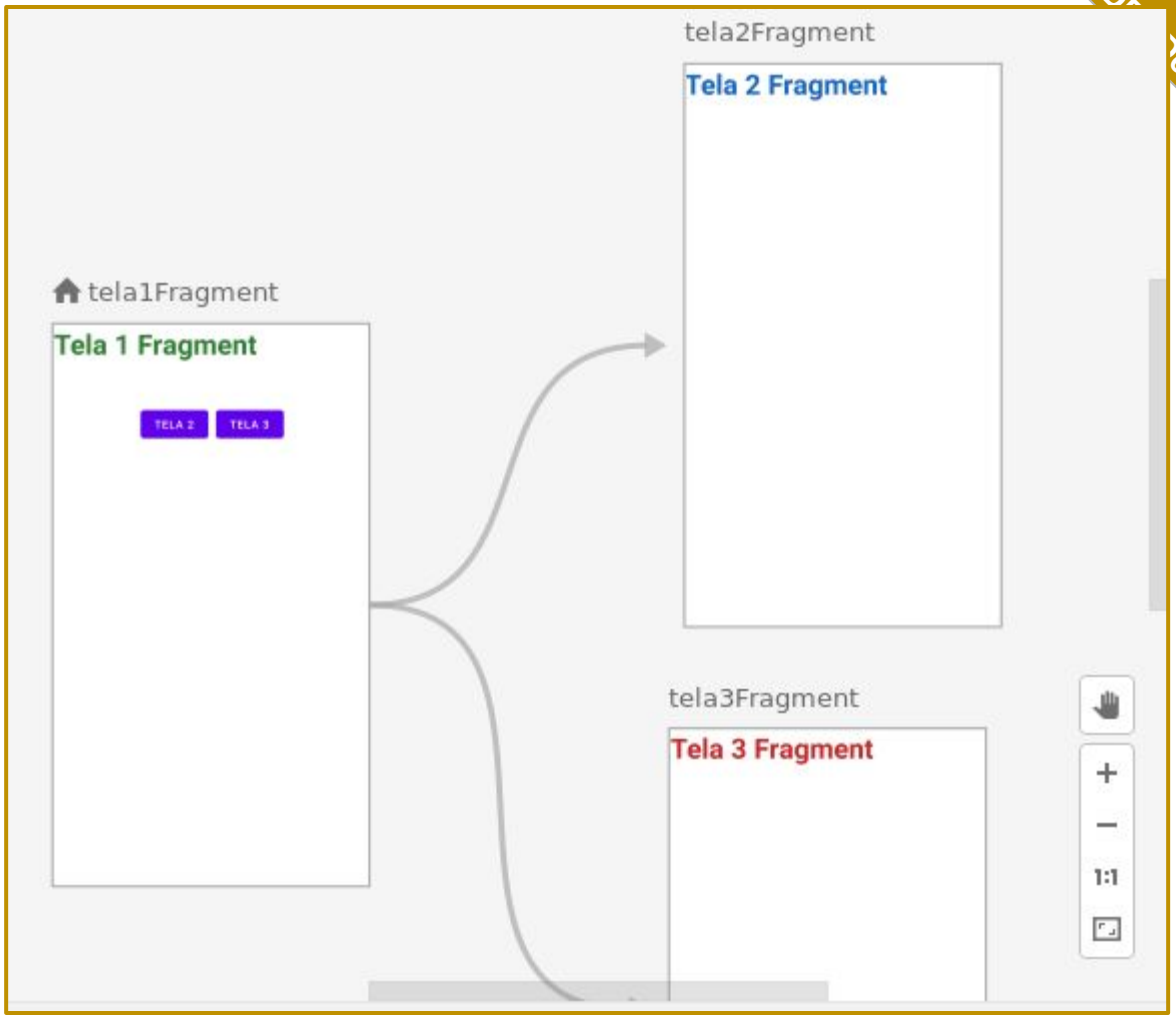
Engenharia de Computação - 2020 / 4

Navegar em Fragments

build.gradle (:app)

```
46      //--------------------------------------------------------------------------
47      //Navigation
48      def navigationVersion = "2.3.0"
49      implementation "androidx.navigation:navigation-fragment-ktx:$navigationVersion"
50      implementation "androidx.navigation:navigation-ui-ktx:$navigationVersion"
51  }
```


Android
app
manifests
java
java (generated)
res
drawable
layout
activity_main.xml
fragment_tela1.xml
fragment_tela2.xml
fragment_tela3.xml
mipmap
navigation
main_navigation.xml
values
res (generated)
Gradle Scripts
1
2


tela2Fragment
Tela 2 Fragment
tela1Fragment
Tela 1 Fragment
TELA 2
TELA 3
tela3Fragment
Tela 3 Fragment
1:1

Tela1Fragment.kt

```kotlin
class Tela1Fragment : Fragment() {
    override fun onCreateView(
        inflater: LayoutInflater, container: ViewGroup?,
        savedInstanceState: Bundle?
    ): View? {

        val view : View! = inflater.inflate(R.layout.fragment_tela1, container, attachToRoot: false)

        val btnTela2 : Button! = view.findViewById<Button>(R.id.btnTela2)
        btnTela2.setOnClickListener { it: View!

            val navController : NavController = findNavController( fragment: this)
            val bundle = Bundle()
            bundle.putString("teste", "Instituto Infnet")
            navController.navigate(R.id.action_tela1Fragment_to_tela2Fragment, bundle)
        }
        val btnTela3 : Button! = view.findViewById<Button>(R.id.btnTela3)
        btnTela3.setOnClickListener { it: View!

            val navController : NavController = findNavController( fragment: this)
            navController.navigate(R.id.action_tela1Fragment_to_tela3Fragment)
        }
        return view
    }
}
```

1
2
3

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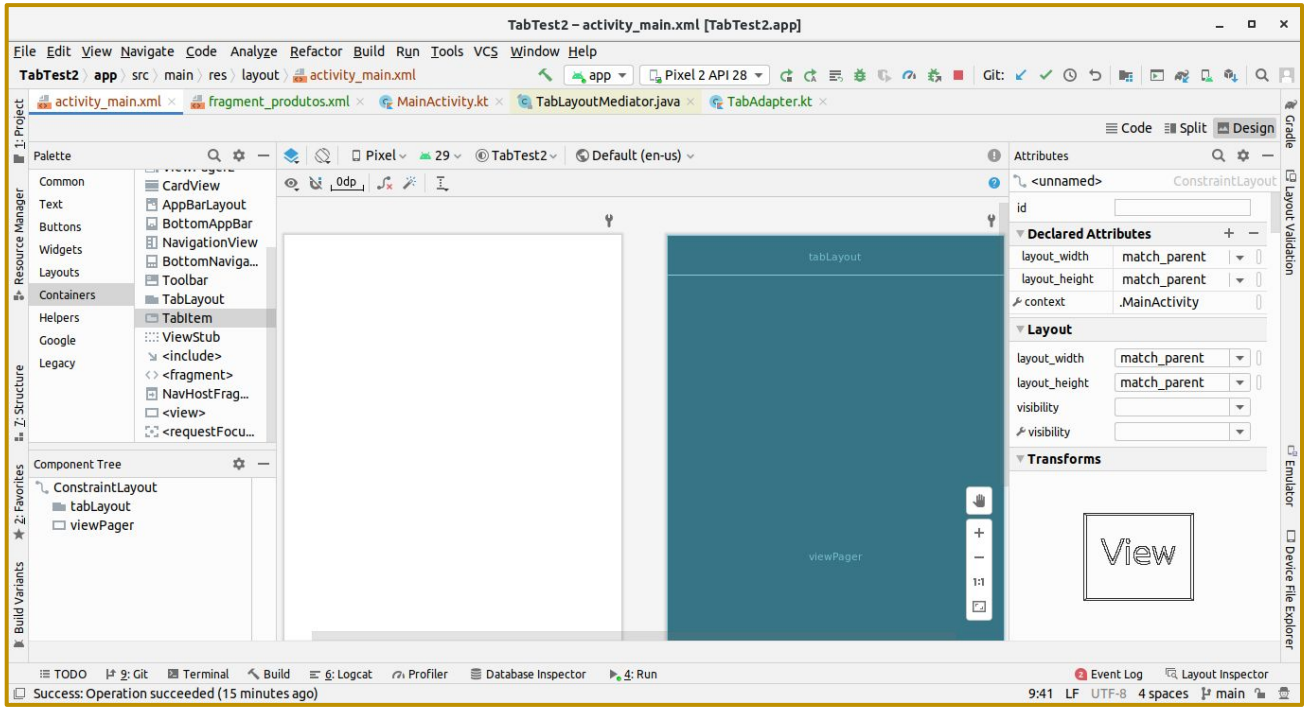
Tela2Fragment.kt

```
10  class Tela2Fragment : Fragment() {
11
12      override fun onCreateView(
13          inflater: LayoutInflater, container: ViewGroup?,
14          savedInstanceState: Bundle?
15      ): View? {
16
17          val frase :String  = arguments?.get("teste").toString()
18          Log.i( tag: "MIT", frase)
19          return inflater.inflate(R.layout.fragment_tela2, container,  attachToRoot: false)
20      }
21  }
```

TabLayout

4:21
TabTest2
FORNECEDORES
CONTATOS
PRODUTOS
Fornecedores


TabTest2 – activity_main.xml [TabTest2.app]
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
TabTest2 app src main res layout activity_main.xml
Pixel 2 API 28
activity_main.xml
fragment_produtos.xml
MainActivity.kt
TabLayoutMediator.java
TabAdapter.kt
Code Split Design
Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Helpers
Google
Legacy
CardView
AppBarLayout
BottomAppBar
NavigationView
Toolbar
TabLayout
TabItem
ViewStub
Component Tree
ConstraintLayout
tabLayout
viewPager
tabLayout
viewPager
Attributes
Declared Attributes
layout_width match_parent
layout_height match_parent
context .MainActivity
Layout
visibility
Transforms
View
TODO 9: Git Terminal Build 6: Logcat Profiler Database Inspector 4: Run
Event Log Layout Inspector
Success: Operation succeeded (15 minutes ago)
9:41 LF UTF-8 4 spaces main

TabAdapter.kt

```
1  class TabAdapter(fragmentActivity: FragmentActivity) : FragmentStateAdapter(fragmentActivity) {
2
3      override fun getItemCount(): Int = 3
4
5      override fun createFragment(position: Int): Fragment {
6
7          lateinit var fragment : Fragment
8          when(position) {
9
10             0 -> fragment = FornecedoresFragment()
11             1 -> fragment = ContatosFragment()
12             2 -> fragment = ProdutosFragment()
13         }
14         return fragment
15     }
16 }
```

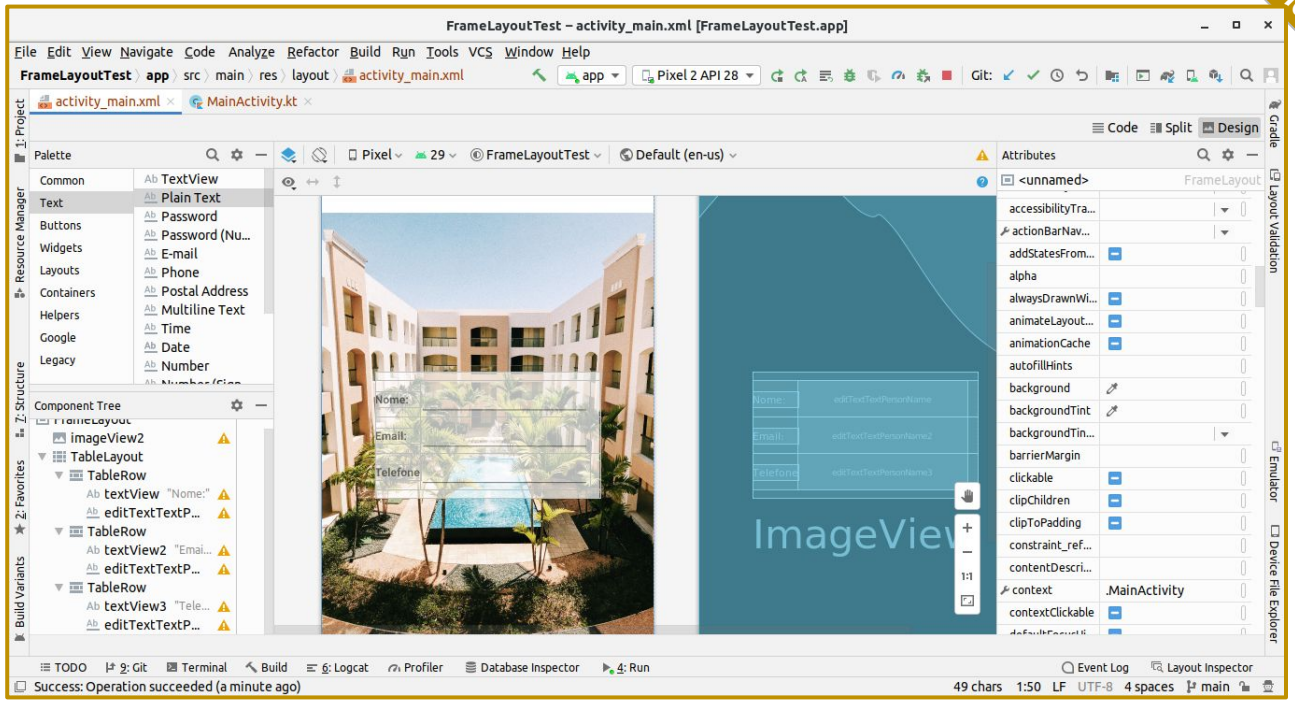
MainActivity.kt

```
10  class MainActivity : AppCompatActivity() {
11      override fun onCreate(savedInstanceState: Bundle?) {
12          super.onCreate(savedInstanceState)
13          setContentView(R.layout.activity_main)
14
15          var tabLayout = findViewById<TabLayout>(R.id.tabLayout)
16          var viewPager2 = findViewById<ViewPager2>(R.id.viewPager)
17          viewPager2.adapter = TabAdapter( fragmentActivity: this)
18          TabLayoutMediator(tabLayout, viewPager2) { tab, position ->
19              viewPager2.setCurrentItem(tab.position, smoothScroll: true)
20              if (position == 2) tab.setText("Produtos")
21              if (position == 1) tab.setText("Contatos")
22              if (position == 0) tab.setText("Fornecedores")
23          }.attach()
24      }
25  }
```

1
2
3

FrameLayout

4:55
FrameLayoutTest
Nome:
Email:
Telefone


FrameLayoutTest – activity_main.xml [FrameLayoutTest.app]
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help
activity_main.xml
MainActivity.kt
Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Helpers
Google
Legacy
TextView
Plain Text
Password
E-mail
Phone
Postal Address
Multiline Text
Time
Date
Number
Component Tree
imageView2
TableLayout
TableRow
textView "Nome:"
editTextTextP...
textView2 "Emai...
textView3 "Tele...
Attributes
Code Split Design
Nome:
Email:
Telefone
ImageVie
TODO 9: Git Terminal Build 6: Logcat Profiler Database Inspector 4: Run
Event Log Layout Inspector
Success: Operation succeeded (a minute ago)