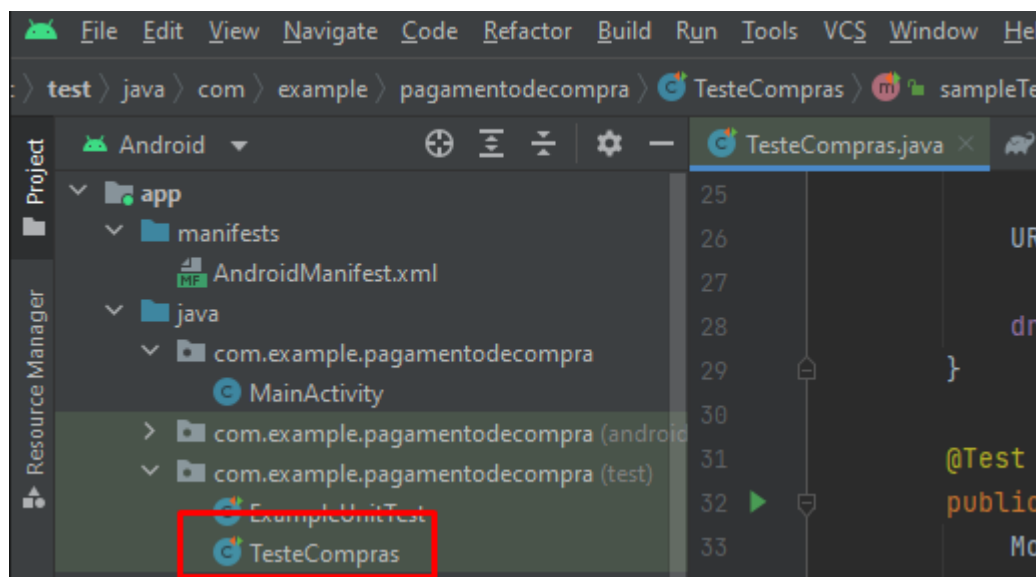


1. Crie um caso de teste para qualquer APP desde que não seja os utilizados nos slides.
2. Faça os teste automatizados utilizando o APPIUM.
3. Melhore o código introduzindo DriverFactory e DSL

OBS: enviar imagens do Caso de teste, das classes de teste e do pacote util, bem como, do teste passando e do projeto zipado. Ou enviar um video do teste sendo executado, bem como, do caso de teste.

1. Crie um caso de teste para qualquer APP desde que não seja os utilizados nos slides.



2. Faça os teste automatizados utilizando o APPIUM.

Opções selecionadas no Appium:

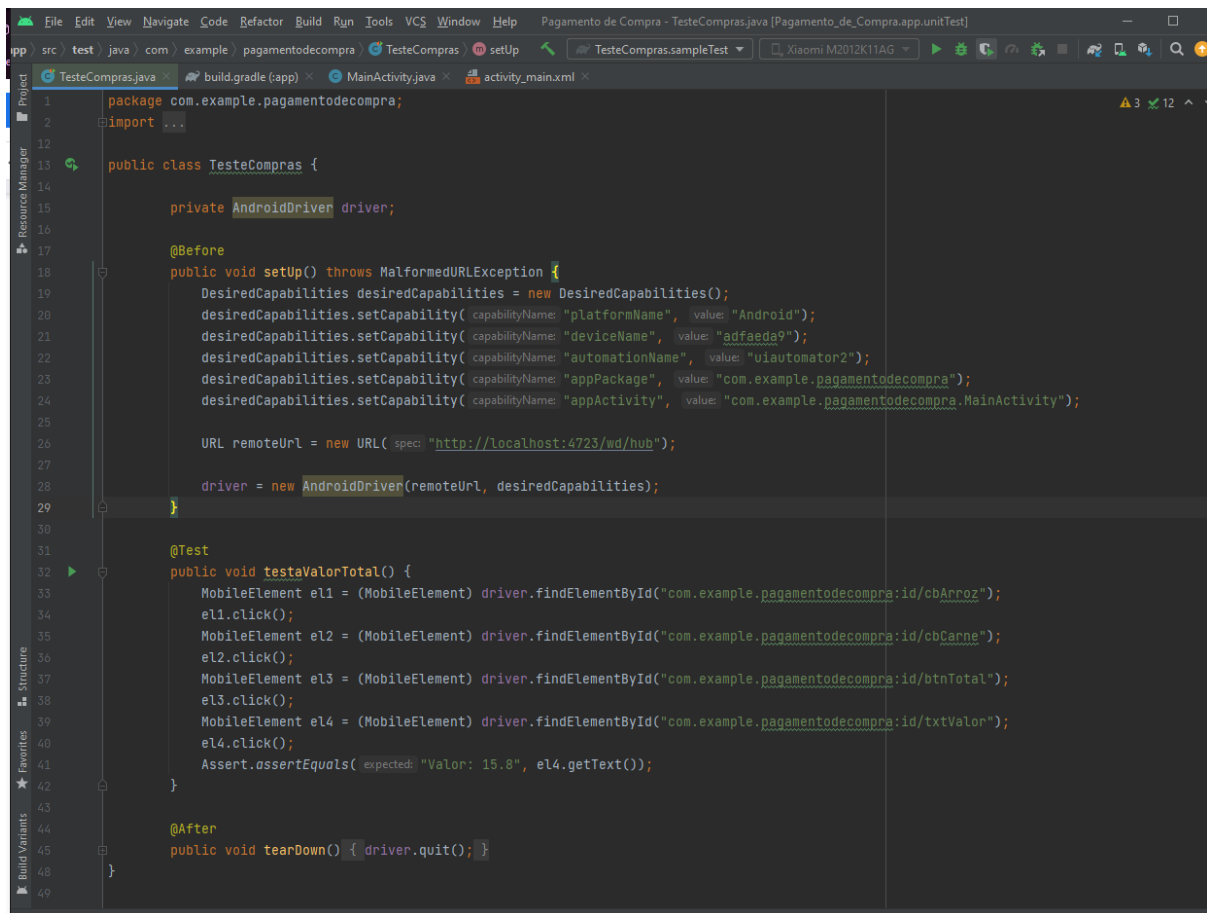
The screenshot displays the Appium IDE interface. On the left, a mobile app is running, showing a screen titled "Pagamento de Compra" with a list of products and a total value of 15.8. The products are: Arroz (R\$ 3,50), Carne (R\$ 11,30), Pão (R\$ 2,20), Leite (R\$ 5,50), and Ovos (R\$ 7,50). The total is displayed as "TOTAL Valor: 15.8".

In the center, the "Recorder" tab shows a Java test script for a class named "SampleTest". The script includes imports for Appium, JUnit, and Selenium, and defines a test method.

On the right, the "App Source" tab shows the XML structure of the app's UI. The selected element is a TextView with the text "Valor: 15.8". The "Selected Element" table on the far right provides details about this element.

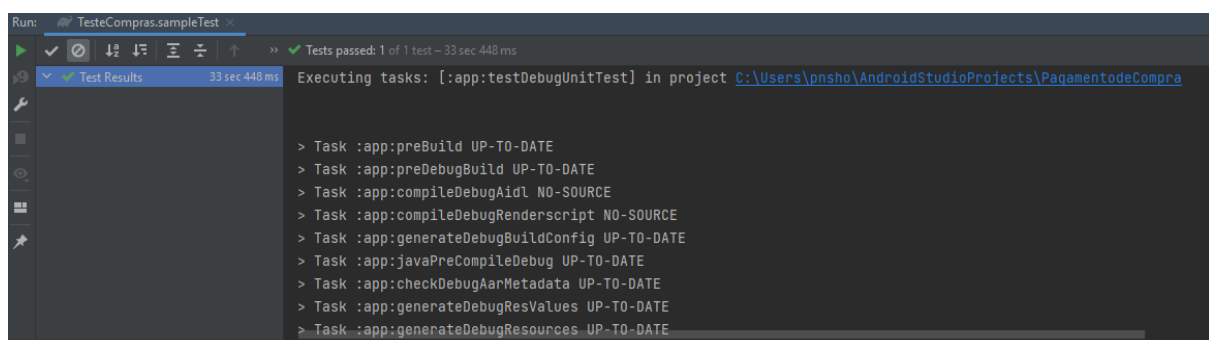
Attribute	Value
index	3
text	Valor: 15.8
class	android.widget.TextView
package	com.example.pagamentoodecompra
content-desc	
checkable	false
checked	false
clickable	false
enabled	true
focusable	false
focused	false
scrollable	false
long-clickable	false
password	false
selected	false
bounds	[352,1128][564,1186]
resource-id	com.example.pagamentoodecompra:id/txtValor
instance	2

Código do Appium para o teste acima:



```
1 package com.example.pagamentodecompra;
2 import ...
12
13 public class TesteCompras {
14
15     private AndroidDriver driver;
16
17     @Before
18     public void setUp() throws MalformedURLException {
19         DesiredCapabilities desiredCapabilities = new DesiredCapabilities();
20         desiredCapabilities.setCapability( capabilityName: "platformName", value: "Android");
21         desiredCapabilities.setCapability( capabilityName: "deviceName", value: "adfaeda9");
22         desiredCapabilities.setCapability( capabilityName: "automationName", value: "uiautomator2");
23         desiredCapabilities.setCapability( capabilityName: "appPackage", value: "com.example.pagamentodecompra");
24         desiredCapabilities.setCapability( capabilityName: "appActivity", value: "com.example.pagamentodecompra.MainActivity");
25
26         URL remoteUrl = new URL( spec: "http://localhost:4723/wd/hub");
27
28         driver = new AndroidDriver(remoteUrl, desiredCapabilities);
29     }
30
31     @Test
32     public void testaValorTotal() {
33         MobileElement e1 = (MobileElement) driver.findElementById("com.example.pagamentodecompra:id/cbArroz");
34         e1.click();
35         MobileElement e2 = (MobileElement) driver.findElementById("com.example.pagamentodecompra:id/cbCarne");
36         e2.click();
37         MobileElement e3 = (MobileElement) driver.findElementById("com.example.pagamentodecompra:id/btnTotal");
38         e3.click();
39         MobileElement e4 = (MobileElement) driver.findElementById("com.example.pagamentodecompra:id/txtValor");
40         e4.click();
41         Assert.assertEquals( expected: "Valor: 15.8", e4.getText());
42     }
43
44     @After
45     public void tearDown() { driver.quit(); }
46
47 }
48
49 }
```

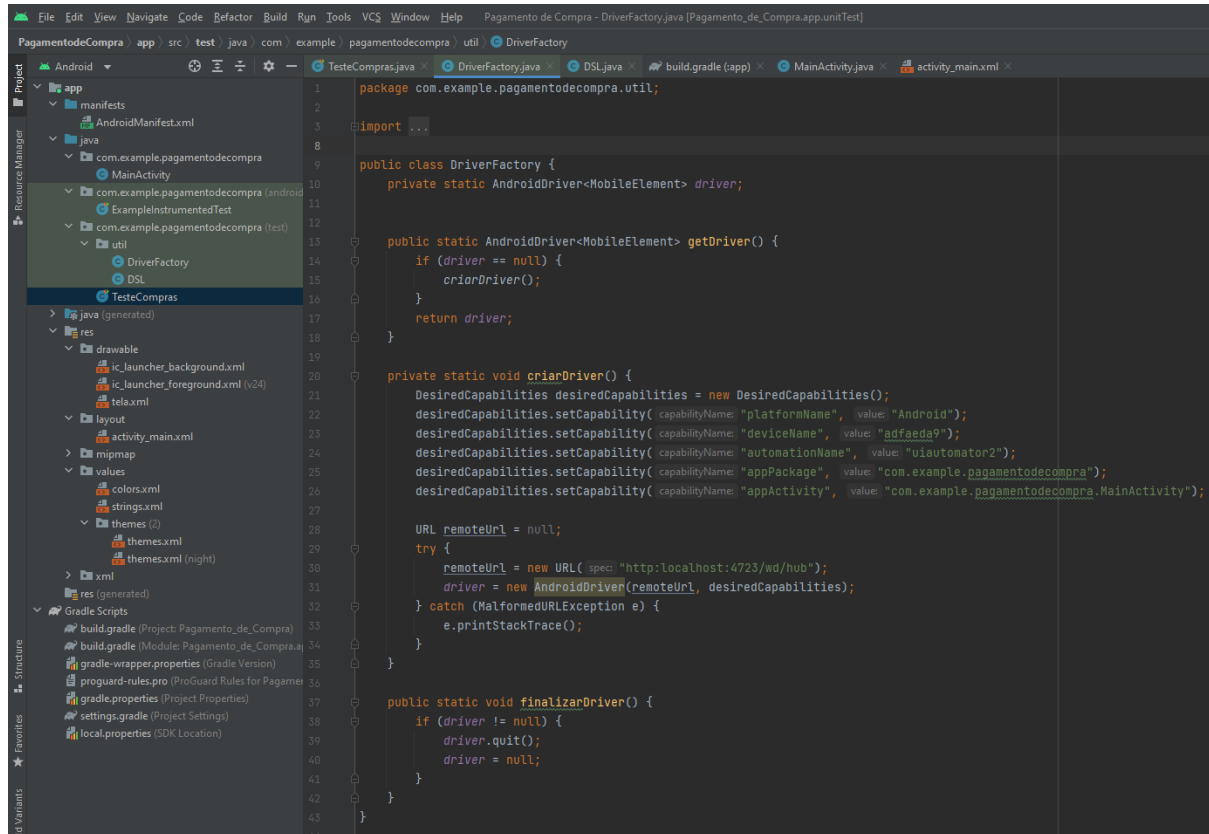
Resultado do teste:



```
Run: TesteCompras.sampleTest
Tests passed: 1 of 1 test - 33 sec 448 ms
Test Results 33 sec 448 ms
Executing tasks: [:app:testDebugUnitTest] in project C:\Users\pnsho\AndroidStudioProjects\PagamentodeCompra
> Task :app:preBuild UP-TO-DATE
> Task :app:preDebugBuild UP-TO-DATE
> Task :app:compileDebugAidl NO-SOURCE
> Task :app:compileDebugRenderscript NO-SOURCE
> Task :app:generateDebugBuildConfig UP-TO-DATE
> Task :app:javaPreCompileDebug UP-TO-DATE
> Task :app:checkDebugAarMetadata UP-TO-DATE
> Task :app:generateDebugResValues UP-TO-DATE
> Task :app:generateDebugResources UP-TO-DATE
```

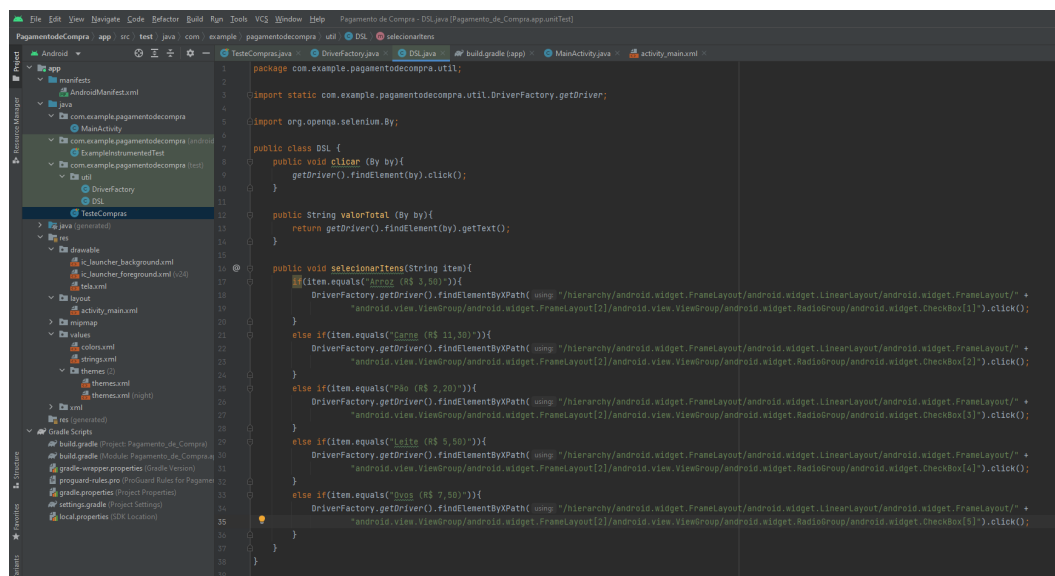
3. Melhore o código introduzindo DriverFactory e DSL

Classe DriverFactory:



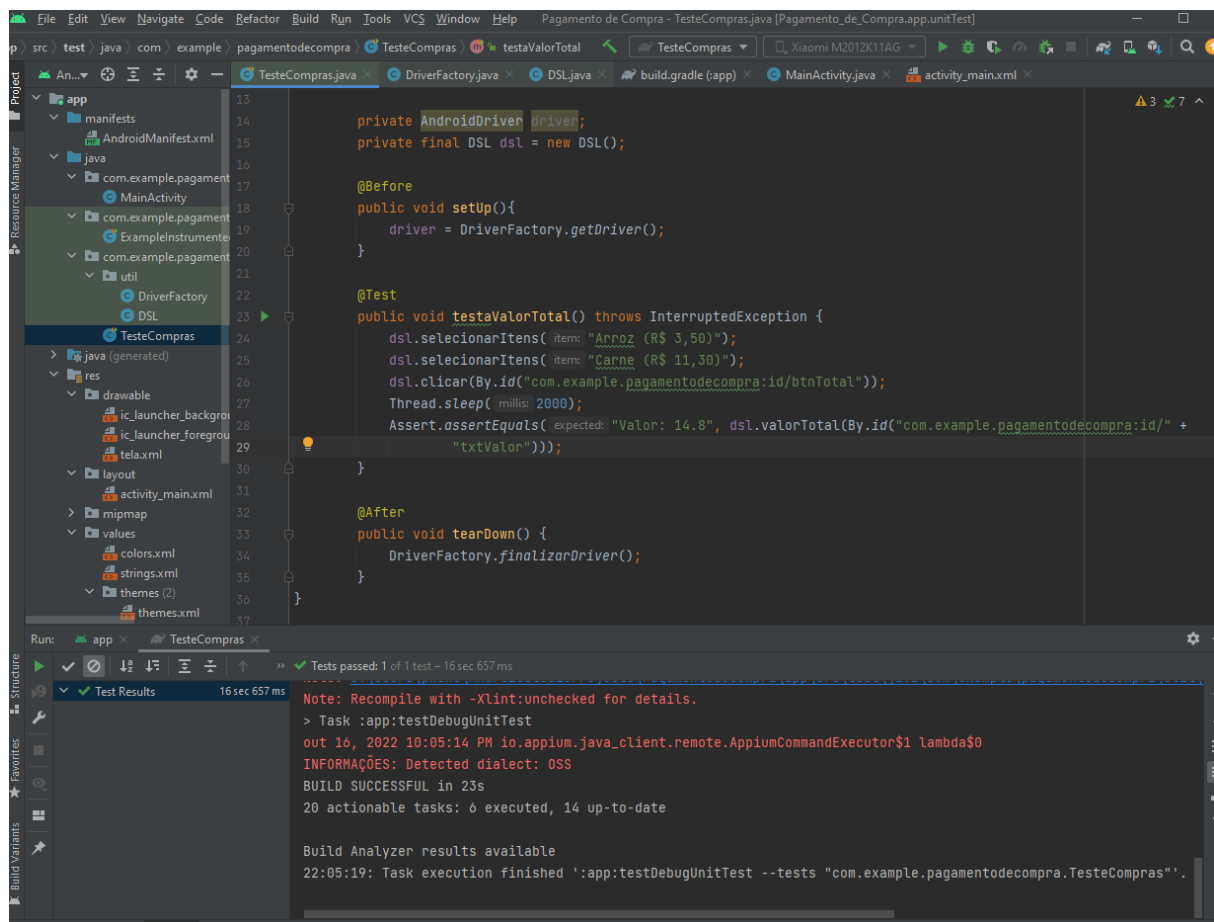
```
1 package com.example.pagamentodecompra.util;
2
3 import ...
4
5 public class DriverFactory {
6     private static AndroidDriver<MobileElement> driver;
7
8     public static AndroidDriver<MobileElement> getDriver() {
9         if (driver == null) {
10             criarDriver();
11         }
12         return driver;
13     }
14
15     private static void criarDriver() {
16         DesiredCapabilities desiredCapabilities = new DesiredCapabilities();
17         desiredCapabilities.setCapability("platformName", "Android");
18         desiredCapabilities.setCapability("deviceName", "adfaeda9");
19         desiredCapabilities.setCapability("automationName", "uiautomator2");
20         desiredCapabilities.setCapability("appPackage", "com.example.pagamentodecompra");
21         desiredCapabilities.setCapability("appActivity", "com.example.pagamentodecompra.MainActivity");
22
23         URL remoteUrl = null;
24         try {
25             remoteUrl = new URL("http://localhost:4723/wd/hub");
26             driver = new AndroidDriver(remoteUrl, desiredCapabilities);
27         } catch (MalformedURLException e) {
28             e.printStackTrace();
29         }
30     }
31
32     public static void finalizarDriver() {
33         if (driver != null) {
34             driver.quit();
35             driver = null;
36         }
37     }
38 }
```

Classe DSL:



```
1 package com.example.pagamentodecompra.util;
2
3 import static com.example.pagamentodecompra.util.DriverFactory.getDriver;
4
5 import org.openqa.selenium.By;
6
7 public class DSL {
8     public void clicar (By by){
9         getDriver().findElement(by).click();
10     }
11
12     public String valorTotal (By by){
13         return getDriver().findElement(by).getText();
14     }
15
16     public void selecionarItens(String item){
17         if(item.equals("Arroz (R$ 5,50)")){
18             DriverFactory.getDriver().findElementByXPath("//hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout// +
19                 android.view.ViewGroup/android.widget.FrameLayout[2]/android.view.ViewGroup/android.widget.RadioGroup/android.widget.CheckBox[1]").click();
20         }
21         else if(item.equals("Carne (R$ 11,30)")){
22             DriverFactory.getDriver().findElementByXPath("//hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout// +
23                 android.view.ViewGroup/android.widget.FrameLayout[2]/android.view.ViewGroup/android.widget.RadioGroup/android.widget.CheckBox[5]").click();
24         }
25         else if(item.equals("Pão (R$ 2,20)")){
26             DriverFactory.getDriver().findElementByXPath("//hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout// +
27                 android.view.ViewGroup/android.widget.FrameLayout[2]/android.view.ViewGroup/android.widget.RadioGroup/android.widget.CheckBox[3]").click();
28         }
29         else if(item.equals("Leite (R$ 3,80)")){
30             DriverFactory.getDriver().findElementByXPath("//hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout// +
31                 android.view.ViewGroup/android.widget.FrameLayout[2]/android.view.ViewGroup/android.widget.RadioGroup/android.widget.CheckBox[4]").click();
32         }
33         else if(item.equals("Ovos (R$ 7,50)")){
34             DriverFactory.getDriver().findElementByXPath("//hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout// +
35                 android.view.ViewGroup/android.widget.FrameLayout[2]/android.view.ViewGroup/android.widget.RadioGroup/android.widget.CheckBox[5]").click();
36         }
37     }
38 }
```

Resultado:



Pacote util:

