

# Avaliação - Teste Funcional

Aplicativo usado: PagamentoCompras

## Teste automatizado appium

The screenshot shows the Appium interface with the 'PagamentoCompras' app. The app screen displays a list of products: Arroz (\$3,50), Carne (\$12,50), Pão (\$2,20), Leite (\$5,50), and Ovos (\$7,50). The 'Arroz' item is selected. The Appium Recorder shows a single step: `MobileElement e11 = (MobileElement) driver.findElementById("com.example.pagamentocompras:id/cbArroz"); e11.click();`. The App Source shows the XML structure of the app, highlighting the `android.widget.CheckBox` element with `resource-id="com.example.pagamentocompras:id/cbArroz"`. The Selected Element panel shows the element's attributes, including `id`, `index`, `text`, `class`, `package`, `content-desc`, `checkable`, and `checked`.

The screenshot shows the Appium interface with the 'PagamentoCompras' app. The app screen displays the same list of products, but now 'Carne' is selected. The Appium Recorder shows two steps: `MobileElement e11 = (MobileElement) driver.findElementById("com.example.pagamentocompras:id/cbArroz"); e11.click();` and `MobileElement e12 = (MobileElement) driver.findElementById("com.example.pagamentocompras:id/cbCarne"); e12.click();`. The App Source shows the XML structure of the app, highlighting the `android.widget.CheckBox` element with `resource-id="com.example.pagamentocompras:id/cbCarne"`. The Selected Element panel shows the element's attributes, including `id`, `index`, `text`, `class`, `package`, `content-desc`, `checkable`, and `checked`.

Appium

16:13 38%

### PagamentoCompras

Escolha seu produto

- ☒ Arroz (\$3,50)
- ☒ Carne (R\$12,50)
- ☐ Pão (R\$2,20)
- ☐ Leite (R\$5,50)
- ☐ Ovos (R\$7,50)

**TOTAL** Valor: 16.0

Algum desconto ?

- ☐ Sem desconto
- ☐ 5%
- ☐ 10%
- ☐ 15%

Valor pago pelo cliente

**EFETUAR PAGAMENTO**

Recorder

Java - JUnit

```
MobileElement e11 = (MobileElement) driver.findElementById("com.example.pagamentocompras:id/cbArroz");
e11.click();
MobileElement e12 = (MobileElement) driver.findElementById("com.example.pagamentocompras:id/cbCarne");
e12.click();
MobileElement e13 = (MobileElement) driver.findElementById("com.example.pagamentocompras:id/btnTotal");
e13.click();
```

App Source

```
<android.widget.FrameLayout>
  <android.widget.LinearLayout>
    <android.widget.FrameLayout>
      <android.view.ViewGroup resource-id="com.example.pagamentocompras:id/deco">
        <android.widget.FrameLayout resource-id="com.example.pagamentocompras:id/content">
          <android.view.ViewGroup>
            <android.widget.LinearLayout resource-id="com.example.pagamentocompras:id/semDesconto">
              <android.widget.TextView resource-id="com.example.pagamentocompras:id/textSemDesconto">
                Sem desconto
              <android.widget.CheckBox resource-id="com.example.pagamentocompras:id/cbSemDesconto">
                <input type="checkbox"/>
              <android.widget.TextView resource-id="com.example.pagamentocompras:id/text5">
                5%
              <android.widget.CheckBox resource-id="com.example.pagamentocompras:id/cb5">
                <input type="checkbox"/>
              <android.widget.TextView resource-id="com.example.pagamentocompras:id/text10">
                10%
              <android.widget.CheckBox resource-id="com.example.pagamentocompras:id/cb10">
                <input type="checkbox"/>
              <android.widget.TextView resource-id="com.example.pagamentocompras:id/text15">
                15%
              <android.widget.CheckBox resource-id="com.example.pagamentocompras:id/cb15">
                <input type="checkbox"/>
            <android.widget.Button resource-id="com.example.pagamentocompras:id/btnTotal">
              TOTAL
            <android.widget.Button resource-id="com.example.pagamentocompras:id/btnCancelar">
              Cancelar
          </android.widget.LinearLayout>
        </android.view.ViewGroup>
      </android.widget.FrameLayout>
    </android.widget.LinearLayout>
  </android.widget.FrameLayout>
```

Selected Element

Tap Send Keys Clear

Find By	Selector
id	com.example.pagamentocompras:id/btnTotal
xpath	/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[2]/android.view.ViewGroup/android.widget.Button[1]

Attribute	Value
index	1
text	TOTAL
class	android.widget.Button
package	com.example.pagamentocompras
content-desc	
checkable	false
checked	false
clickable	true

Appium

16:13 38%

### PagamentoCompras

Escolha seu produto

- ☒ Arroz (\$3,50)
- ☒ Carne (R\$12,50)
- ☐ Pão (R\$2,20)
- ☐ Leite (R\$5,50)
- ☐ Ovos (R\$7,50)

**TOTAL** Valor: 16.0

Algum desconto ?

- ☒ Sem desconto
- ☐ 5%
- ☐ 10%
- ☐ 15%

Valor pago pelo cliente

**EFETUAR PAGAMENTO**

Recorder

Java - JUnit

```
MobileElement e11 = (MobileElement) driver.findElementById("com.example.pagamentocompras:id/cbArroz");
e11.click();
MobileElement e12 = (MobileElement) driver.findElementById("com.example.pagamentocompras:id/cbCarne");
e12.click();
MobileElement e13 = (MobileElement) driver.findElementById("com.example.pagamentocompras:id/btnTotal");
e13.click();
```

App Source

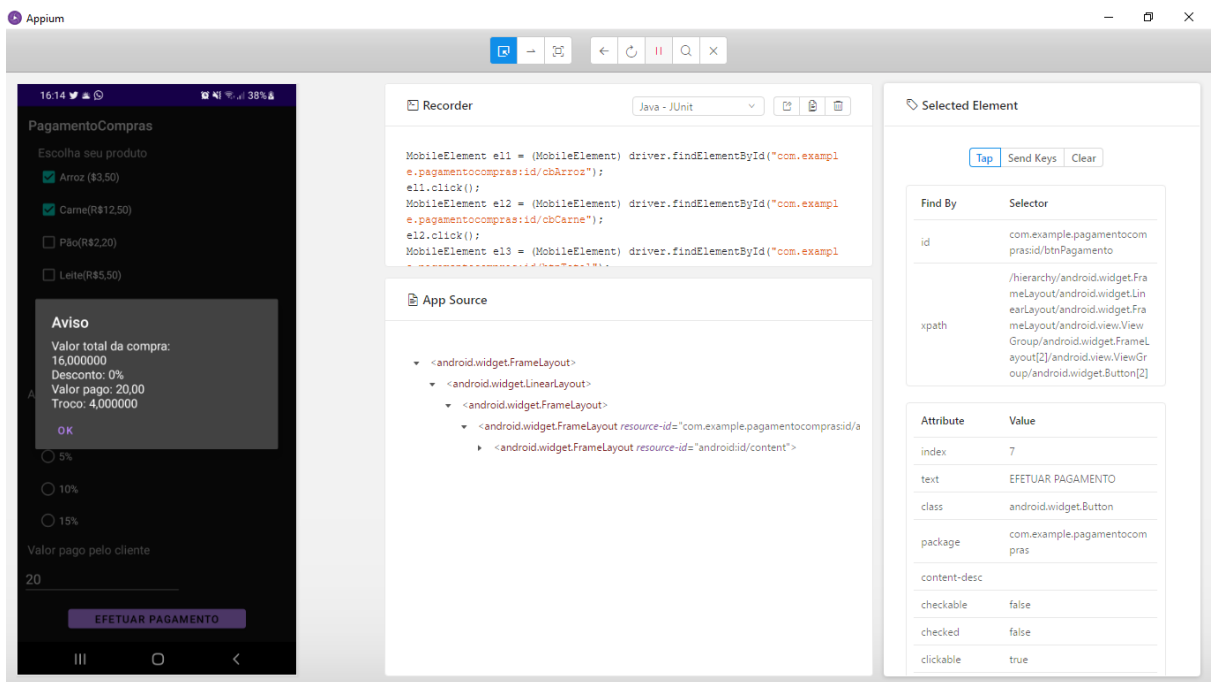
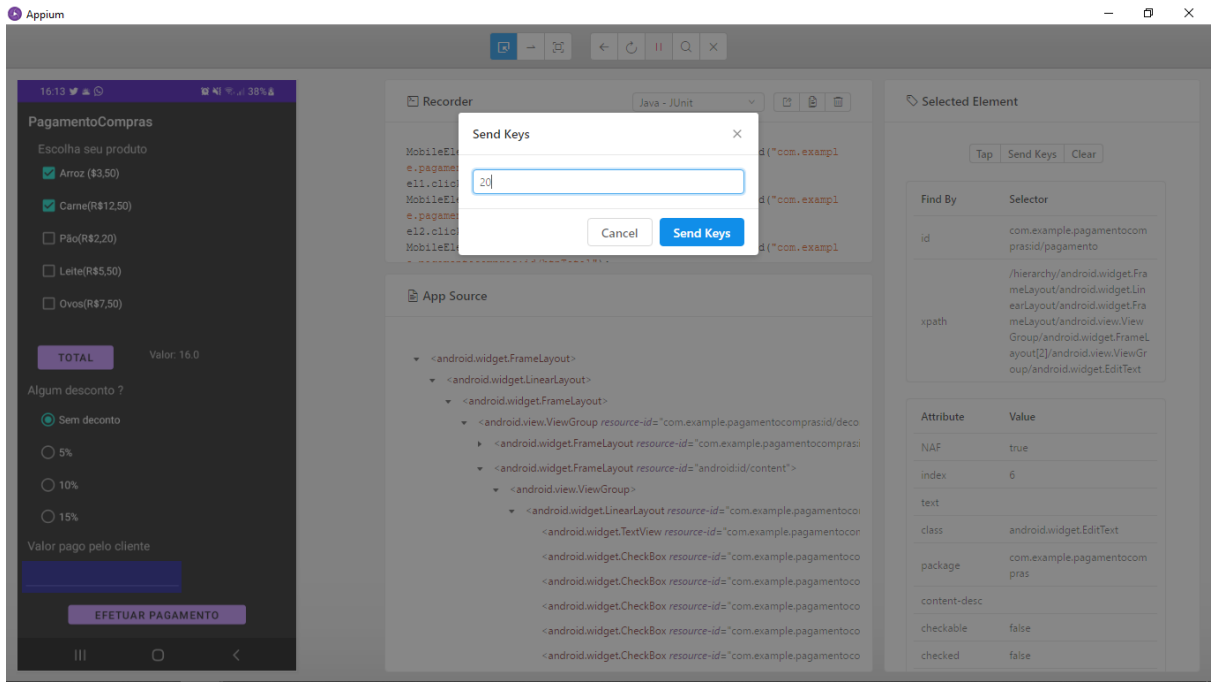
```
<android.widget.FrameLayout>
  <android.widget.LinearLayout>
    <android.widget.FrameLayout>
      <android.view.ViewGroup resource-id="com.example.pagamentocompras:id/deco">
        <android.widget.FrameLayout resource-id="com.example.pagamentocompras:id/content">
          <android.view.ViewGroup>
            <android.widget.LinearLayout resource-id="com.example.pagamentocompras:id/semDesconto">
              <android.widget.TextView resource-id="com.example.pagamentocompras:id/textSemDesconto">
                Sem desconto
              <android.widget.CheckBox resource-id="com.example.pagamentocompras:id/cbSemDesconto">
                <input checked="" type="checkbox"/>
              <android.widget.TextView resource-id="com.example.pagamentocompras:id/text5">
                5%
              <android.widget.CheckBox resource-id="com.example.pagamentocompras:id/cb5">
                <input type="checkbox"/>
              <android.widget.TextView resource-id="com.example.pagamentocompras:id/text10">
                10%
              <android.widget.CheckBox resource-id="com.example.pagamentocompras:id/cb10">
                <input type="checkbox"/>
              <android.widget.TextView resource-id="com.example.pagamentocompras:id/text15">
                15%
              <android.widget.CheckBox resource-id="com.example.pagamentocompras:id/cb15">
                <input type="checkbox"/>
            <android.widget.Button resource-id="com.example.pagamentocompras:id/btnTotal">
              TOTAL
            <android.widget.Button resource-id="com.example.pagamentocompras:id/btnCancelar">
              Cancelar
          </android.widget.LinearLayout>
        </android.view.ViewGroup>
      </android.widget.FrameLayout>
    </android.widget.LinearLayout>
  </android.widget.FrameLayout>
```

Selected Element

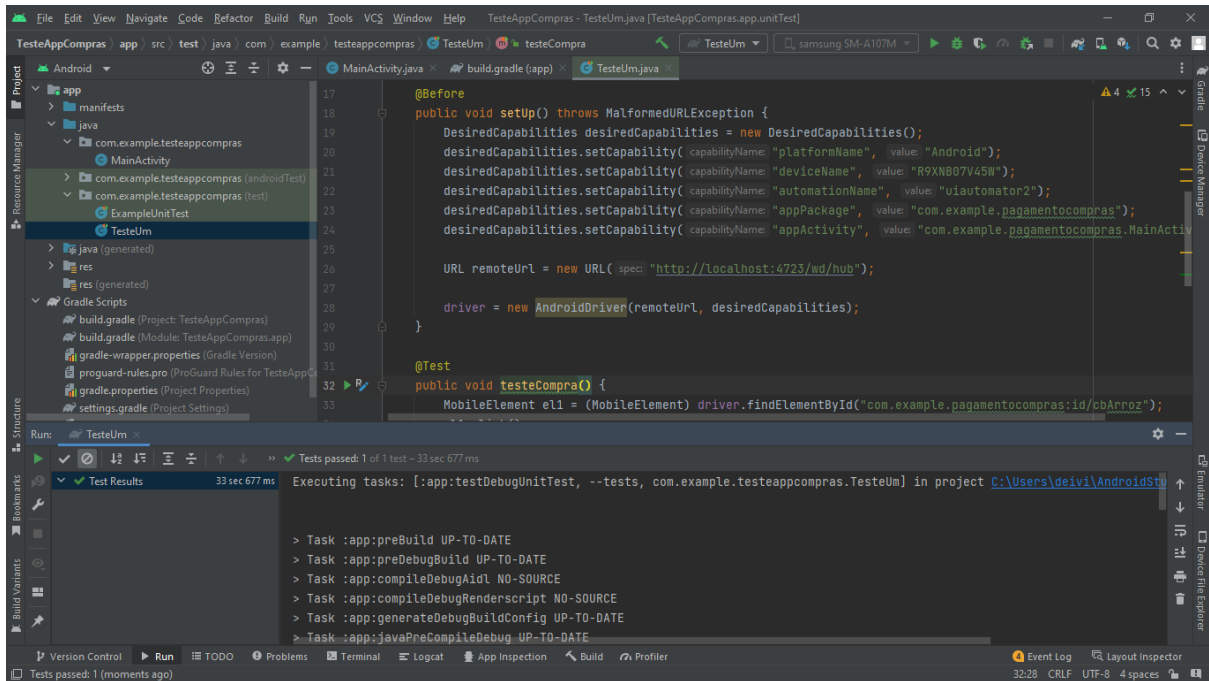
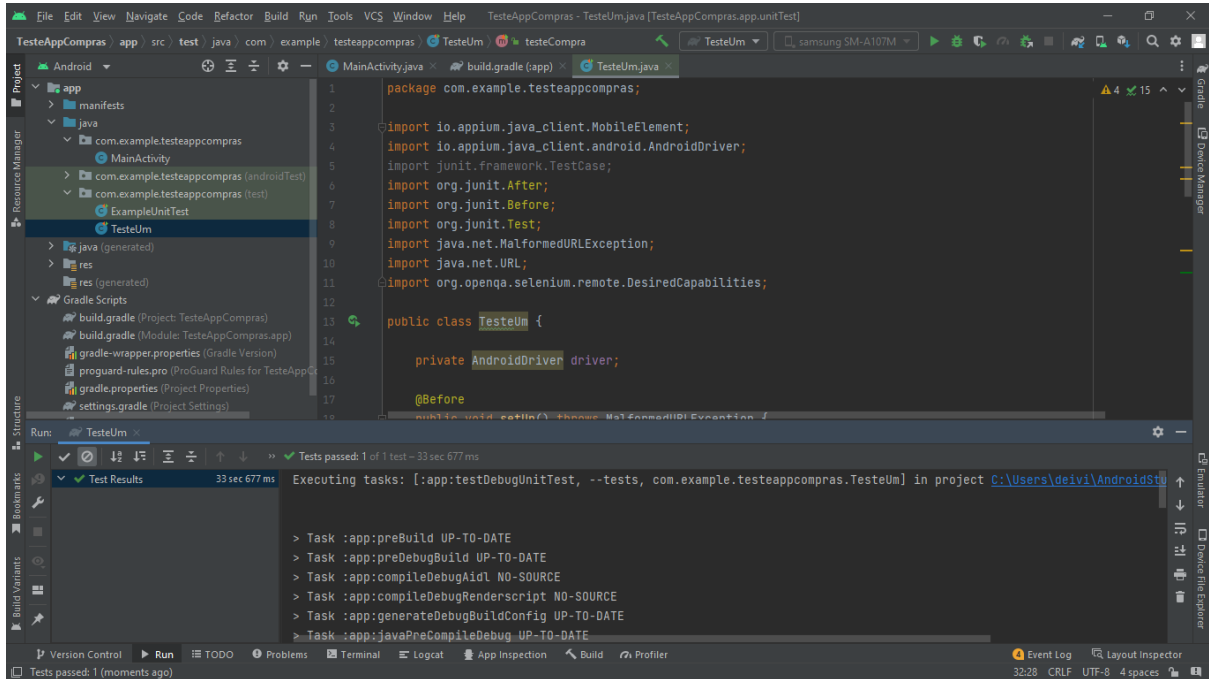
Tap Send Keys Clear

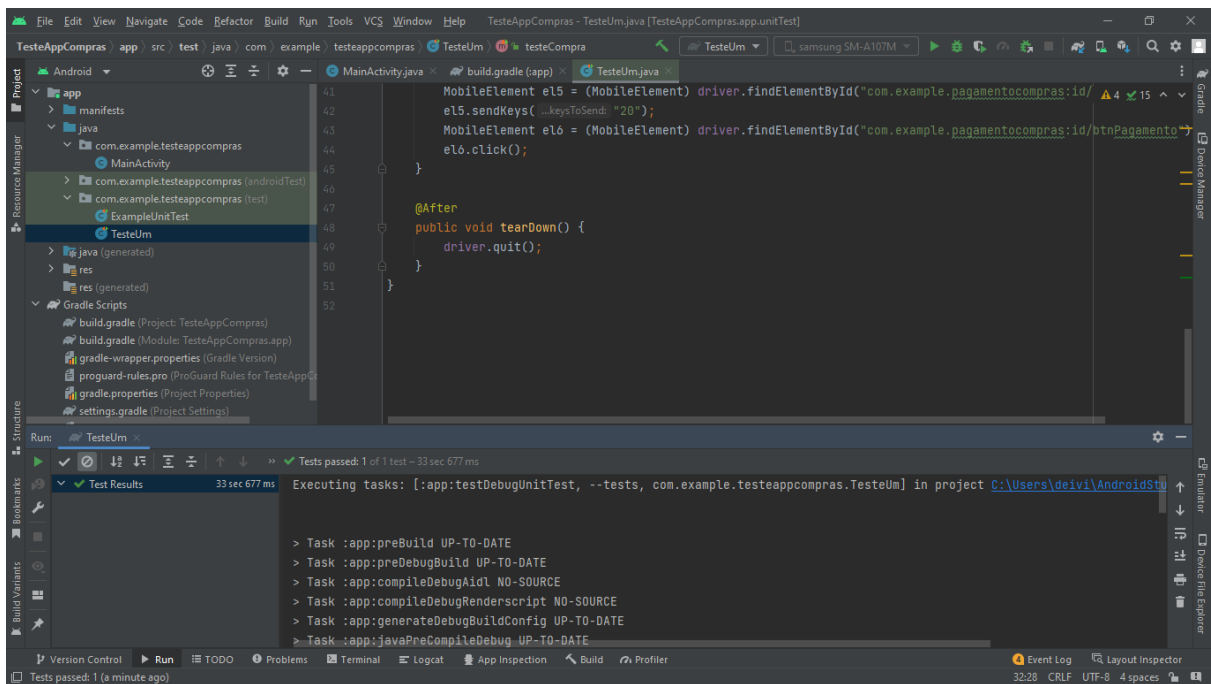
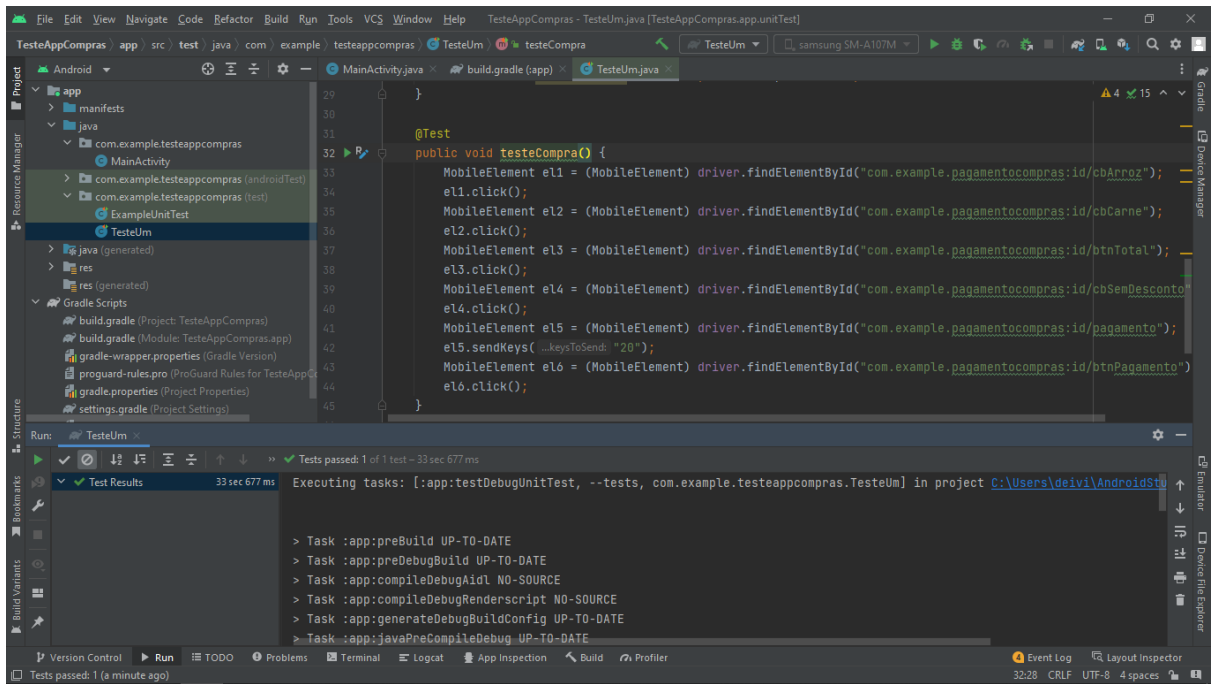
Find By	Selector
id	com.example.pagamentocompras:id/cbSemDesconto
xpath	/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[2]/android.view.ViewGroup/android.widget.RadioGroup/android.widget.RadioButton[1]

Attribute	Value
index	0
text	Sem desconto
class	android.widget.RadioButton
package	com.example.pagamentocompras
content-desc	
checkable	true
checked	false

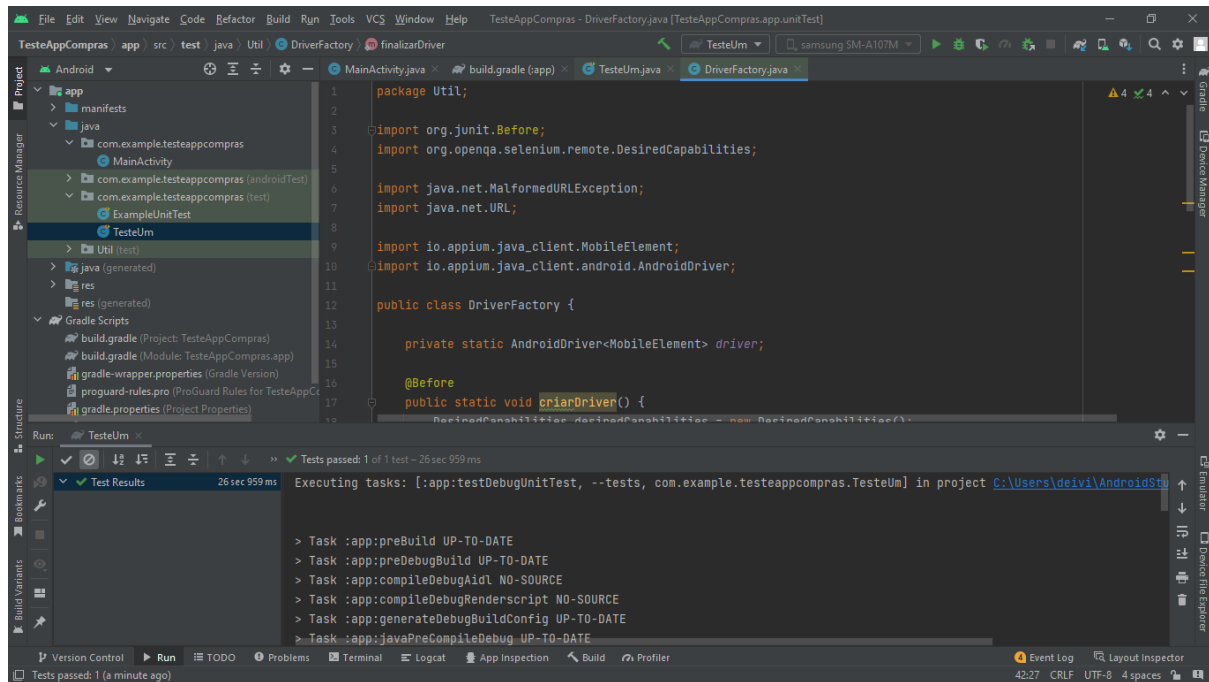


## Teste Funcional

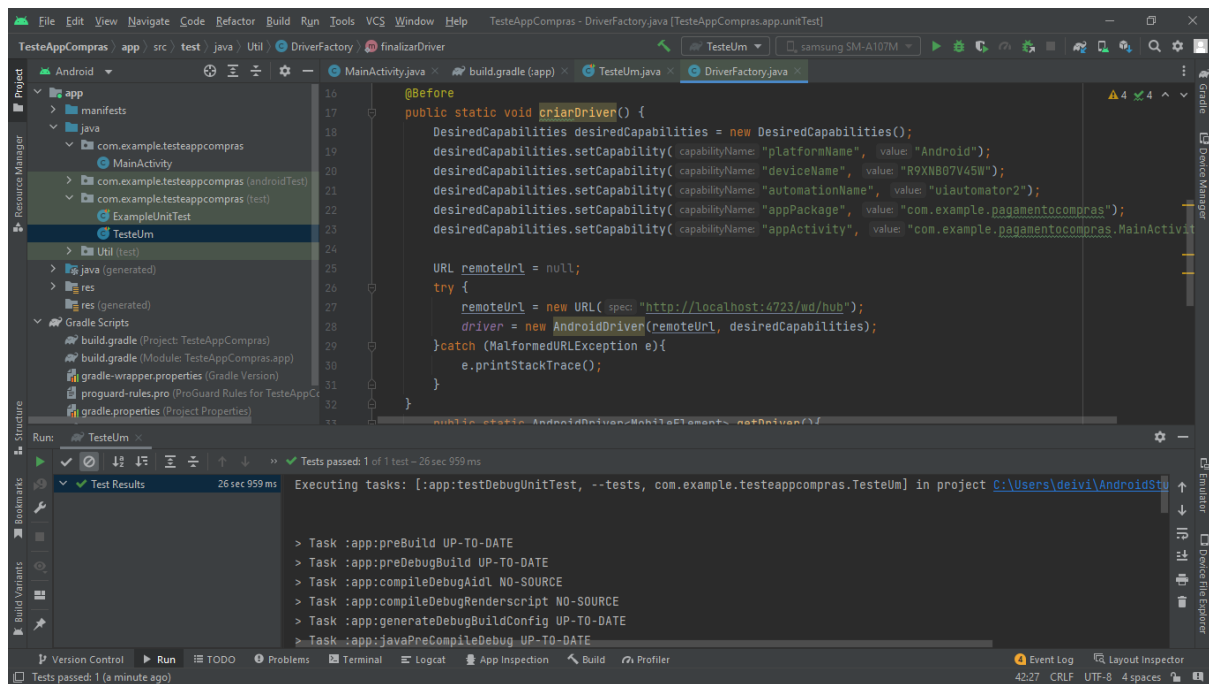




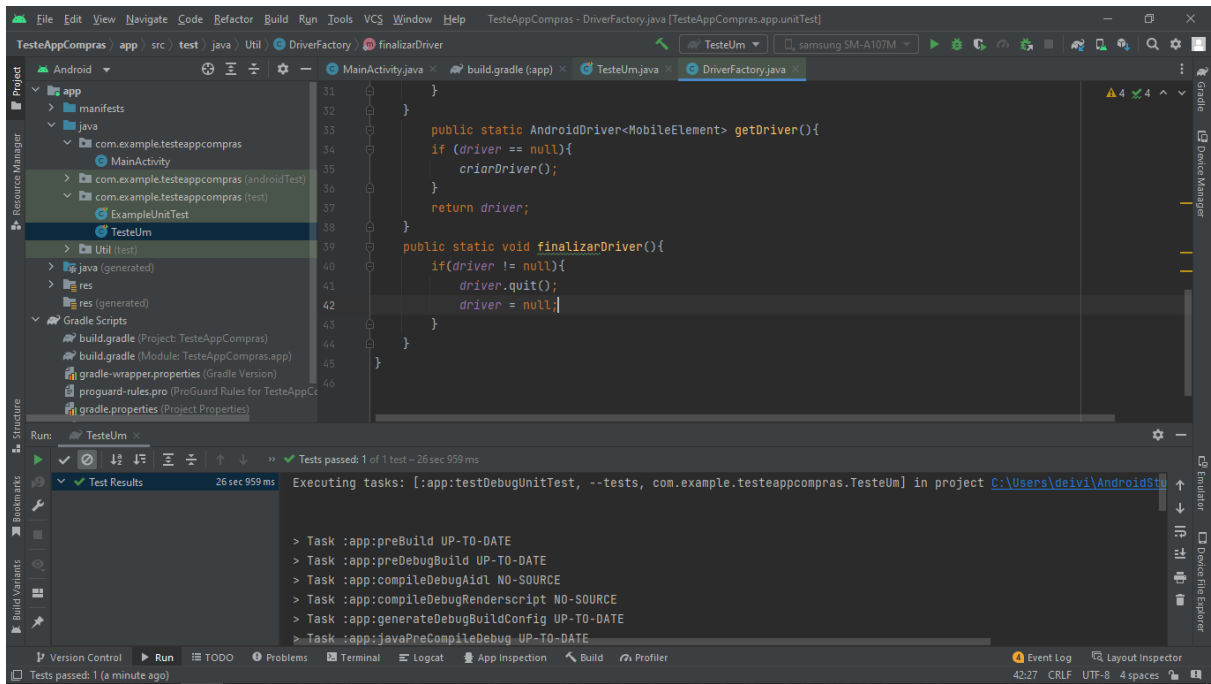
# Driver Factory



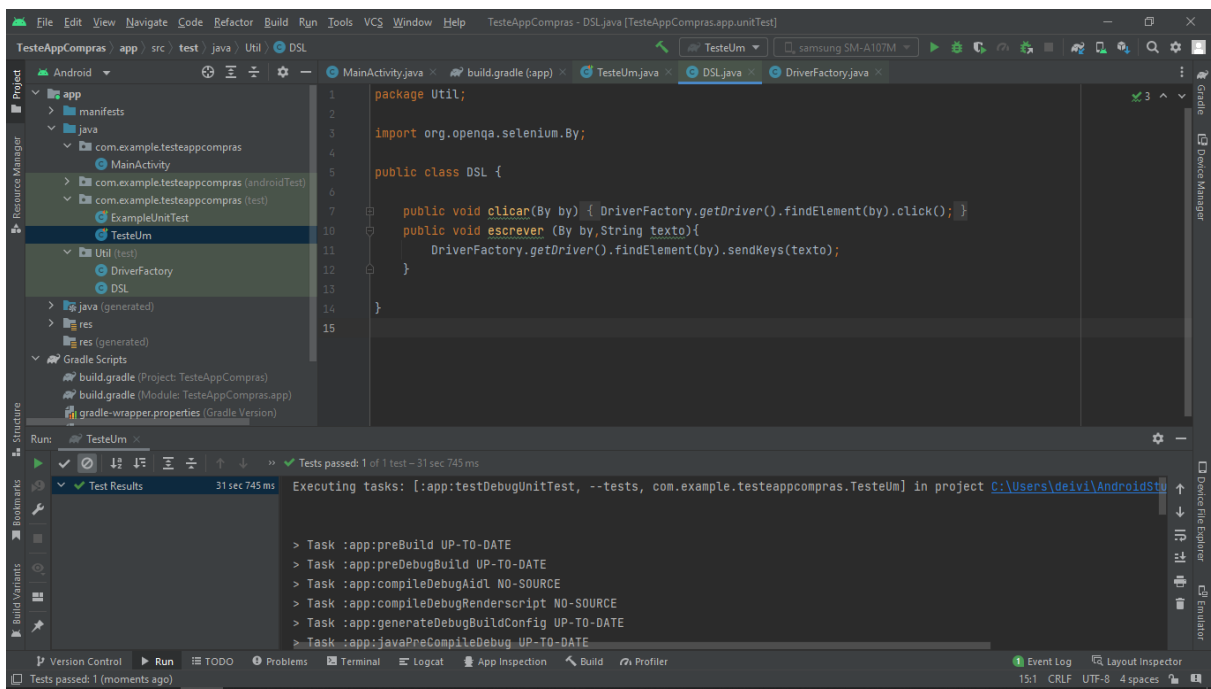
```
1 package Util;
2
3 import org.junit.Before;
4 import org.openqa.selenium.remote.DesiredCapabilities;
5
6 import java.net.MalformedURLException;
7 import java.net.URL;
8
9 import io.appium.java_client.MobileElement;
10 import io.appium.java_client.android.AndroidDriver;
11
12 public class DriverFactory {
13
14     private static AndroidDriver<MobileElement> driver;
15
16     @Before
17     public static void criarDriver() {
18         DesiredCapabilities desiredCapabilities = new DesiredCapabilities();
19         desiredCapabilities.setCapability("platformName", "Android");
20         desiredCapabilities.setCapability("deviceName", "R9XNB07V45W");
21         desiredCapabilities.setCapability("automationName", "uiautomator2");
22         desiredCapabilities.setCapability("appPackage", "com.example.pagamentocompras");
23         desiredCapabilities.setCapability("appActivity", "com.example.pagamentocompras.MainActivity");
24
25         URL remoteUrl = null;
26         try {
27             remoteUrl = new URL("http://localhost:4723/wd/hub");
28             driver = new AndroidDriver(remoteUrl, desiredCapabilities);
29         } catch (MalformedURLException e) {
30             e.printStackTrace();
31         }
32     }
33
34     public static AndroidDriver<MobileElement> getDriver() {
35         return driver;
36     }
37 }
```



```
16 @Before
17 public static void criarDriver() {
18     DesiredCapabilities desiredCapabilities = new DesiredCapabilities();
19     desiredCapabilities.setCapability("platformName", "Android");
20     desiredCapabilities.setCapability("deviceName", "R9XNB07V45W");
21     desiredCapabilities.setCapability("automationName", "uiautomator2");
22     desiredCapabilities.setCapability("appPackage", "com.example.pagamentocompras");
23     desiredCapabilities.setCapability("appActivity", "com.example.pagamentocompras.MainActivity");
24
25     URL remoteUrl = null;
26     try {
27         remoteUrl = new URL("http://localhost:4723/wd/hub");
28         driver = new AndroidDriver(remoteUrl, desiredCapabilities);
29     } catch (MalformedURLException e) {
30         e.printStackTrace();
31     }
32 }
33
34 public static AndroidDriver<MobileElement> getDriver() {
35     return driver;
36 }
37 }
```



## DSL



## Classe TesteUm após modificações

