

# Teste Funcional

Caso teste: aplicativo para compras.

Funcionalidade: mostrar os itens listados, efetuar o pagamento e dar o valor do troco para o usuário com ou sem desconto.

Pré-requisitos: nenhum.

Procedimentos:

1. Clicar no produtos desejados.
2. Não é necessário apertar o botão “total”, mas pode ser feito.
3. Selecionar o valor de desconto.
4. Inserir o valor a ser pago.
5. Efetuar o pagamento.

Resultado esperado: AlertDialog com o valor total da compra, desconto, valor pago pelo cliente e o troco a ser dado.

The screenshot shows the Appium Desktop application window. At the top, there's a header with the Appium logo and navigation tabs: "Automatic Server" (selected), "Custom Server", "SAUCELABS", "TestObject", and "headspin". Below the header, a message states: "Will use currently-running Appium Desktop server at <http://localhost:4723>".

The main area is divided into two sections. On the left, under the "Desired Capabilities" tab, there's a table for configuring session parameters:

Field	Type	Value	Action
platformName	text	Android	[Trash]
deviceName	text	RX8R1084DJB	[Trash]
automationName	text	uiautomator2	[Trash]
appPackage	text	com.example.pagamentodecompras	[Trash]
appActivity	text	com.example.pagamentodecompras.MainActivity	[Trash]

Below the table is a "+" button to add more capabilities. To the right of the table is the "JSON Representation" section, which displays the capabilities as a JSON object:

```
{
  "platformName": "Android",
  "deviceName": "RX8R1084DJB",
  "automationName": "uiautomator2",
  "appPackage": "com.example.pagamentodecompras",
  "appActivity": "com.example.pagamentodecompras.MainActivity"
}
```

At the bottom of the window, there's a footer with a link to "Desired Capabilities Documentation" and three buttons: "Save", "Save As...", and "Start Session".

Appium

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Pagamento de Compras

Escolha seu produto

☒ Arroz (R\$3,50)

☐ Carne (R\$ 12,30)

☐ Pão (R\$ 2,20)

☐ Leite (R\$ 5,50)

☐ Ovos (R\$ 7,50)

TOTAL Valor: 3.5

Alguns desconto?

☒ Sem desconto

☐ 5%

☐ 10%

☐ 15%

Valor pago pelo cliente

EFETUAR PAGAMENTO

Recorder

Java - JUnit

```
MobileElement e11 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/ckArroz");
e11.click();
MobileElement e12 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/buttonTotal");
e12.click();
```

App Source

```
<android.widget.FrameLayout>
  <android.widget.LinearLayout>
    <android.widget.FrameLayout>
      <android.view.ViewGroup resource-id="com.example.pagamentodecompras:decor_content_parent">
        <android.widget.FrameLayout resource-id="com.example.pagamentodecompras:action_bar_container">
          <android.view.ViewGroup resource-id="com.example.pagamentodecompras:action_bar">
            <android.widget.TextView>
          <android.widget.FrameLayout resource-id="android:id/content">
            <android.view.ViewGroup>
              <android.widget.RadioGroup resource-id="com.example.pagamentodecompras:id/radioGroup">
                <android.widget.TextView resource-id="com.example.pagamentodecompras:id/textView">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckArroz">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckCarne">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckPao">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckLeite">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckOvos">
                <android.widget.Button resource-id="com.example.pagamentodecompras:id/buttonTotal">
                <android.widget.TextView resource-id="com.example.pagamentodecompras:id/textView3">
                <android.widget.TextView resource-id="com.example.pagamentodecompras:id/textView3">
              <android.widget.RadioGroup resource-id="com.example.pagamentodecompras:id/grupo2">
```

Selected Element

Find By Selector

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

Attribute	Value
index	1
text	TOTAL
class	android.widget.Button
package	com.example.pagamentodecompras
content-desc	
checkable	false
checked	false
clickable	true
enabled	true
focusable	true
focused	false
scrollable	false
long-clickable	false
password	false
selected	false
bounds	[53,612][365,677]
resource-id	com.example.pagamentodecompras:id/buttonTotal
instance	0

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Appium

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Pagamento de Compras

Escolha seu produto

☒ Arroz (R\$3,50)

☐ Carne (R\$ 12,30)

☐ Pão (R\$ 2,20)

☐ Leite (R\$ 5,50)

☐ Ovos (R\$ 7,50)

TOTAL Valor: 3.5

Alguns desconto?

☒ Sem desconto

☐ 5%

☐ 10%

☐ 15%

Valor pago pelo cliente

5

EFETUAR PAGAMENTO

Recorder

Java - JUnit

```
MobileElement e11 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/ckArroz");
e11.click();
MobileElement e12 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/buttonTotal");
e12.click();
MobileElement e13 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/textClienteValor");
e13.sendKeys("5");
```

App Source

```
<android.widget.FrameLayout>
  <android.widget.LinearLayout>
    <android.widget.FrameLayout>
      <android.view.ViewGroup resource-id="com.example.pagamentodecompras:decor_content_parent">
        <android.widget.FrameLayout resource-id="com.example.pagamentodecompras:action_bar_container">
          <android.view.ViewGroup resource-id="com.example.pagamentodecompras:action_bar">
            <android.widget.TextView>
          <android.widget.FrameLayout resource-id="android:id/content">
            <android.view.ViewGroup>
              <android.widget.RadioGroup resource-id="com.example.pagamentodecompras:id/radioGroup">
                <android.widget.TextView resource-id="com.example.pagamentodecompras:id/textView">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckArroz">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckCarne">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckPao">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckLeite">
                <android.widget.CheckBox resource-id="com.example.pagamentodecompras:id/ckOvos">
                <android.widget.Button resource-id="com.example.pagamentodecompras:id/buttonTotal">
                <android.widget.TextView resource-id="com.example.pagamentodecompras:id/textView3">
                <android.widget.TextView resource-id="com.example.pagamentodecompras:id/textView3">
              <android.widget.RadioGroup resource-id="com.example.pagamentodecompras:id/grupo2">
```

Selected Element

Find By Selector

Find By	Selector
id	com.example.pagamentodecompras:id/textClienteValor
xpath	/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[2]/android.view.ViewGroup/android.widget.EditText

Attribute	Value
NUM	true
index	6
text	
class	android.widget.EditText
package	com.example.pagamentodecompras
content-desc	
checkable	false
checked	false
clickable	true
enabled	true
focusable	true
focused	true
scrollable	false
long-clickable	true
password	false
selected	false
bounds	[81,1196][636,1268]
resource-id	com.example.pagamentodecompras:id/textClienteValor
instance	0

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The screenshot shows the Appium Recorder interface. On the left is a mobile app interface for a payment screen titled "Pagamento de Compras". It lists products: Arroz (R\$3,50), Carne (R\$ 12,30), Pão (R\$ 2,20), Leite (R\$ 5,50), and Ovos (R\$ 7,50). Below the list is a "Forma de Pagamento" section showing a total of R\$ 3,50, a 0% discount, and a payment of R\$ 5.0. On the right, the "Recorder" panel shows a list of actions: `MobileElement e11 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/ckArroz");`, `e11.click();`, `MobileElement e12 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/buttonTotal");`, `e12.click();`, `MobileElement e13 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/txtClienteValor");`, `e13.sendKeys("5");`, and `MobileElement e14 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/btnPagamento");`, `e14.click();`. Below the actions is the "App Source" panel showing the XML structure of the app. On the far right, the "Selected Element" panel shows the details of the selected element, including its ID, XPath, and various attributes.

**Recorder**

```

MobileElement e11 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/ckArroz");
e11.click();
MobileElement e12 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/buttonTotal");
e12.click();
MobileElement e13 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/txtClienteValor");
e13.sendKeys("5");
MobileElement e14 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/btnPagamento");
e14.click();

```

**App Source**

```

<android.widget.FrameLayout>
  <android.widget.FrameLayout>
    <android.widget.FrameLayout>
      <android.widget.FrameLayout resource-id="com.example.pagamentodecompras:id/action_bar_root">
        <android.widget.FrameLayout resource-id="android:id/content">
          <android.support.design.widget.AppCompatFrameLayout resource-id="com.example.pagamentodecompras:id/content">
            <android.support.design.widget.AppCompatFrameLayout resource-id="com.example.pagamentodecompras:id/topPanel">
              <android.widget.FrameLayout resource-id="com.example.pagamentodecompras:id/contentPanel">
                <android.widget.ScrollView resource-id="com.example.pagamentodecompras:id/buttonPanel">
                  <android.widget.Button resource-id="android:id/button3">

```

**Selected Element**

Find By	Selector
id	com.example.pagamentodecompras:id/btnPagamento
xpath	/hierarchy/android.widget.FrameLayout/android.widget.LinearLayout/android.widget.FrameLayout/android.view.ViewGroup/android.widget.FrameLayout[2]/android.view.ViewGroup/android.widget.Button[3]

Attribute	Value
index	7
text	EFETUAR PAGAMENTO
class	android.widget.Button
package	com.example.pagamentodecompras
content-desc	
checkable	false
checked	false
clickable	true
enabled	true
focusable	true
focused	false
scrollable	false
long-clickable	false
password	false
selected	false
bounds	[99,1444][575,1518]
resource-id	com.example.pagamentodecompras:id/btnPagamento
instance	1

```

1  import io.appium.java_client.MobileElement;
2  import io.appium.java_client.android.AndroidDriver;
3  import junit.framework.TestCase;
4  import org.junit.After;
5  import org.junit.Before;
6  import org.junit.Test;
7  import java.net.MalformedURLException;
8  import java.net.URL;
9  import org.openqa.selenium.remote.DesiredCapabilities;
10

```

```

11 public class ExemploTesteCompras {
12
13     private AndroidDriver driver;
14
15     @Before
16     public void setUp() throws MalformedURLException {
17         DesiredCapabilities desiredCapabilities = new DesiredCapabilities();
18         desiredCapabilities.setCapability("platformName", "Android");
19         desiredCapabilities.setCapability("deviceName", "RX8R1084DJB");
20         desiredCapabilities.setCapability("automationName", "uiautomator2");
21         desiredCapabilities.setCapability("appPackage", "com.example.pagamentodecompras");
22         desiredCapabilities.setCapability("appActivity", "com.example.pagamentodecompras.MainActivity");
23
24         URL remoteUrl = new URL("http://localhost:4723/wd/hub");
25
26         driver = new AndroidDriver(remoteUrl, desiredCapabilities);
27     }
28
29     @Test
30     public void sampleTest() {
31         MobileElement el1 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/ckArroz");
32         el1.click();
33         MobileElement el2 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/buttonTotal");
34         el2.click();
35         MobileElement el3 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/txtClienteValor");
36         el3.sendKeys("5");
37         MobileElement el4 = (MobileElement) driver.findElementById("com.example.pagamentodecompras:id/btnPagamento");
38         el4.click();
39     }
40

```

```

41     @After
42     public void tearDown() {
43         driver.quit();
44     }
45 }
46

```

```

✓ Test Results 27 sec 299 ms out 10, 2022 8:12:51 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFORMAÇÕES: Detected dialect: OSS
BUILD SUCCESSFUL in 28s
20 actionable tasks: 1 executed, 19 up-to-date

Build Analyzer results available
20:12:55: Task execution finished 'app:testDebugUnitTest --tests "ExemploTesteCompras"'.

```