ROBSON HENRIQUE FERREIRA | RA: 1110481823026

SCRIPTS SELENIUM JAVA:

```java
// ROBSON HENRIQUE FERREIRA | RA: 1110481823026

package com.fatec.cap09;
import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;
//Generated by Selenium IDE
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.JavascriptExecutor;
import java.util.*;

public class REQ01MantemLivrosTest {
 private WebDriver driver;
 JavascriptExecutor js;
 @BeforeEach
 public void setUp() {
  driver = new ChromeDriver();
  js = (JavascriptExecutor) driver;
  new HashMap<String, Object>();
 }
 @AfterEach
 public void tearDown() {
  driver.quit();
 }
 @Test
```

```java
 public void rEQ01MantemLivrosTeste() {
   driver.get("https://ts-scel.herokuapp.com/login");
   driver.manage().window().setSize(new Dimension(1294, 1040));
   driver.findElement(By.name("username")).click();
   driver.findElement(By.name("username")).sendKeys("jose");
   driver.findElement(By.name("password")).click();
   driver.findElement(By.name("password")).sendKeys("123");
   driver.findElement(By.cssSelector("button")).click();
   driver.findElement(By.linkText("Livros")).click();
   driver.findElement(By.id("isbn")).click();
   driver.findElement(By.id("isbn")).sendKeys("1234");
   driver.findElement(By.id("autor")).click();
   driver.findElement(By.id("autor")).sendKeys("autor");
   driver.findElement(By.id("titulo")).click();
   driver.findElement(By.id("titulo")).sendKeys("livro");
   driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
   driver.findElement(By.cssSelector("tr:nth-child(2) .delete")).click();
 }
}
```

// ROBSON HENRIQUE FERREIRA | RA: 1110481823026

```java
package com.fatec.cap09;

import static org.junit.Assert.assertThat;
import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;
//Generated by Selenium IDE
```

```java
import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.Dimension;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;


import java.util.*;

import static org.hamcrest.CoreMatchers.is;



public class REQ02MantemLivrosExcecoesTest {

  private WebDriver driver;

  JavascriptExecutor js;

  @BeforeEach

  public void setUp() {

    driver = new ChromeDriver();

    js = (JavascriptExecutor) driver;

    new HashMap<String, Object>();

  }

  @AfterEach

  public void tearDown() {

    driver.quit();

  }

  @SuppressWarnings("deprecation")

@Test

  public void rEQ02MantemLivrosExcecoes() {

    driver.get("https://ts-scel.herokuapp.com/login");

    driver.manage().window().setSize(new Dimension(1294, 1040));

    driver.findElement(By.name("username")).click();

    driver.findElement(By.name("username")).sendKeys("jose");
```

```java
    driver.findElement(By.name("password")).sendKeys("123");

    driver.findElement(By.name("password")).sendKeys(Keys.ENTER);

    driver.findElement(By.linkText("Livros")).click();

    driver.findElement(By.id("isbn")).click();

    driver.findElement(By.id("isbn")).sendKeys("1");

    driver.findElement(By.id("autor")).click();

    driver.findElement(By.id("autor")).sendKeys("autor");

    driver.findElement(By.id("titulo")).click();

    driver.findElement(By.id("titulo")).sendKeys("titulo");

    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();

    assertThat(driver.findElement(By.cssSelector(".text-danger:nth-child(3)")).getText(), is("ISBN
deve ter 4 caracteres"));

  }
}
```

// ROBSON HENRIQUE FERREIRA | RA: 1110481823026


```java
package com.fatec.cap09;


import static org.junit.jupiter.api.Assertions.*;

import org.junit.jupiter.api.AfterEach;

import org.junit.jupiter.api.BeforeEach;

import org.junit.jupiter.api.Test;
//Generated by Selenium IDE
import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.Dimension;

import org.openqa.selenium.JavascriptExecutor;

import java.util.*;
```

```java
public class REQ03MantemAlunoTests {

private WebDriver driver;

JavascriptExecutor js;

@BeforeEach

public void setUp() {

System.setProperty("webdriver.chrome.driver", "browserDriver/chromedriver.exe");

driver = new ChromeDriver();

js = (JavascriptExecutor) driver;

new HashMap<String, Object>();

}

@AfterEach

public void tearDown() {

driver.quit();

}

@Test

public void ct01cadastraralunocomsucesso() {

driver.get("https://ts-scel.herokuapp.com/login");

driver.manage().window().setSize(new Dimension(968, 728));

driver.findElement(By.name("username")).click();

driver.findElement(By.name("username")).sendKeys("jose");

driver.findElement(By.name("password")).sendKeys("123");

driver.findElement(By.cssSelector("button")).click();

driver.findElement(By.linkText("Alunos")).click();

espera();

driver.findElement(By.id("ra")).click();

driver.findElement(By.id("ra")).sendKeys("1111");

driver.findElement(By.id("nome")).click();

driver.findElement(By.id("nome")).sendKeys("jose");

driver.findElement(By.id("email")).sendKeys("jose@gmail.com");
```

```java
driver.findElement(By.id("cep")).sendKeys("04280130");

driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();

assertEquals("Rua Frei João", driver.findElement(By.cssSelector("td:nth-child(6)")).getText());

driver.findElement(By.linkText("Excluir")).click();

assertEquals(("Lista de alunos"), driver.findElement(By.id("titulopagina")).getText());

}

public void espera() {

try {

Thread.sleep(2000);

} catch (InterruptedException e) {

e.printStackTrace();

}

}

}
```

// ROBSON HENRIQUE FERREIRA | RA: 1110481823026

```java
package com.fatec.cap09;


import static org.hamcrest.CoreMatchers.is;

import static org.junit.Assert.assertThat;


import java.util.HashMap;



import org.junit.jupiter.api.AfterEach;

import org.junit.jupiter.api.BeforeEach;

import org.junit.jupiter.api.Test;

import org.openqa.selenium.By;

import org.openqa.selenium.Dimension;
```

```java
import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;


public class REQ04MantemAlunoExcecoesTest {

  private WebDriver driver;

  JavascriptExecutor js;

  @BeforeEach

  public void setUp() {

    driver = new ChromeDriver();

    js = (JavascriptExecutor) driver;

    new HashMap<String, Object>();

  }

  @AfterEach

  public void tearDown() {

    driver.quit();

  }

  @SuppressWarnings("deprecation")

  @Test

  public void rEQ04MantemAlunoExcecoes() {

    driver.get("https://ts-scel.herokuapp.com/login");

    driver.manage().window().setSize(new Dimension(1294, 1040));

    driver.findElement(By.name("username")).click();

    driver.findElement(By.name("username")).sendKeys("jose");

    driver.findElement(By.name("password")).sendKeys("123");

    driver.findElement(By.name("password")).sendKeys(Keys.ENTER);

    driver.findElement(By.linkText("Alunos")).click();

    driver.findElement(By.id("ra")).click();
```

```java
    driver.findElement(By.id("ra")).sendKeys("1");

    driver.findElement(By.cssSelector(".row:nth-child(3) > .form-group")).click();

    driver.findElement(By.id("nome")).click();

    driver.findElement(By.id("nome")).sendKeys("robson");

    driver.findElement(By.id("email")).sendKeys("robson");

    driver.findElement(By.id("cep")).sendKeys("82837383");

    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();

    assertThat(driver.findElement(By.cssSelector(".text-danger:nth-child(3)")).getText(), is("RA
deve ter 4 caracteres"));

  }
}
```

// ROBSON HENRIQUE FERREIRA | RA: 1110481823026

```java
package com.fatec.cap09;

import static org.hamcrest.CoreMatchers.is;

import static org.junit.Assert.assertThat;

import java.util.HashMap;

import org.junit.jupiter.api.AfterEach;

import org.junit.jupiter.api.BeforeEach;

import org.junit.jupiter.api.Test;

import org.openqa.selenium.By;

import org.openqa.selenium.Dimension;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class REQ05MantemAlunoCEPTest {
```

```java
  private WebDriver driver;

 JavascriptExecutor js;

 @BeforeEach

 public void setUp() {

   driver = new ChromeDriver();

   js = (JavascriptExecutor) driver;

   new HashMap<String, Object>();

 }

 @AfterEach

 public void tearDown() {

   driver.quit();

 }

 @SuppressWarnings("deprecation")

@Test

 public void rEQ05MantemAlunoCEP() {

   driver.get("https://ts-scel.herokuapp.com/login");

   driver.manage().window().setSize(new Dimension(1294, 1040));

   driver.findElement(By.name("username")).click();

   driver.findElement(By.name("username")).sendKeys("jose");

   driver.findElement(By.name("password")).sendKeys("123");

   driver.findElement(By.name("password")).sendKeys(Keys.ENTER);

   driver.findElement(By.linkText("Alunos")).click();

   driver.findElement(By.id("ra")).click();

   driver.findElement(By.id("ra")).sendKeys("1234");

   driver.findElement(By.id("nome")).click();

   driver.findElement(By.id("nome")).sendKeys("robson");

   driver.findElement(By.id("email")).sendKeys("robson");

   driver.findElement(By.id("cep")).sendKeys("07272540");

   driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();

   assertThat(driver.findElement(By.cssSelector("td:nth-child(6)")).getText(), is("Rua
Cassilândia"));
```

```
  }
}
```

// ROBSON HENRIQUE FERREIRA | RA: 1110481823026

```java
package com.fatec.cap09;

import static org.hamcrest.CoreMatchers.is;
import static org.junit.Assert.assertThat;

import java.util.HashMap;
import java.util.Map;
import java.util.Set;

import org.junit.jupiter.api.AfterEach;
import org.junit.jupiter.api.BeforeEach;
import org.junit.jupiter.api.Test;
import org.openqa.selenium.By;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class REQ06EmprestimoTest {
 private WebDriver driver;
 private Map<String, Object> vars;
 JavascriptExecutor js;
 @BeforeEach
 public void setUp() {
```

```java
    driver = new ChromeDriver();

    js = (JavascriptExecutor) driver;

    vars = new HashMap<String, Object>();

  }

  @AfterEach

  public void tearDown() {

   driver.quit();

  }

  public String waitForWindow(int timeout) {

   try {

    Thread.sleep(timeout);

   } catch (InterruptedException e) {

    e.printStackTrace();

   }

   Set<String> whNow = driver.getWindowHandles();

   @SuppressWarnings("unchecked")

        Set<String> whThen = (Set<String>) vars.get("window_handles");

   if (whNow.size() > whThen.size()) {

    whNow.removeAll(whThen);

   }

   return whNow.iterator().next();

  }

  @SuppressWarnings("deprecation")

 @Test

  public void rEQ06Emprestimo() {

   driver.get("https://ts-scel.herokuapp.com/login");

   driver.manage().window().setSize(new Dimension(1294, 1040));

   driver.findElement(By.name("username")).click();

   driver.findElement(By.name("username")).sendKeys("jose");

   driver.findElement(By.name("password")).sendKeys("123");

   driver.findElement(By.name("password")).sendKeys(Keys.ENTER);
```

```java
    driver.findElement(By.linkText("Empréstimo")).click();

    driver.findElement(By.id("isbn")).click();

    driver.findElement(By.id("isbn")).sendKeys("1111");

    driver.findElement(By.id("ra")).sendKeys("1234");

    driver.findElement(By.cssSelector(".row:nth-child(2)")).click();

    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();

    assertThat(driver.findElement(By.cssSelector(".text-danger")).getText(), is("Emprestimo
registrado"));

    vars.put("window_handles", driver.getWindowHandles());

    driver.findElement(By.cssSelector(".btn:nth-child(2)")).click();

    vars.put("win9949", waitForWindow(2000));

    driver.switchTo().window(vars.get("win9949").toString());

    assertThat(driver.findElement(By.cssSelector("tr:nth-child(1) > td:nth-child(5)")).getText(),
is("2021/06/26"));

    driver.findElement(By.cssSelector("tr:nth-child(1) .btn")).click();
  }
}
```

// ROBSON HENRIQUE FERREIRA | RA: 1110481823026

```java
package com.fatec.cap09;

import static org.hamcrest.CoreMatchers.is;

import static org.junit.Assert.assertThat;

import java.util.HashMap;

import java.util.Map;

import java.util.Set;

import org.junit.After;

import org.junit.Before;

import org.junit.jupiter.api.Test;
```

```java
import org.openqa.selenium.By;

import org.openqa.selenium.Dimension;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;


public class REQ07EmprestimoDevolucaoTest {
 private WebDriver driver;
 private Map<String, Object> vars;
 JavascriptExecutor js;
 @Before
 public void setUp() {
  driver = new ChromeDriver();
  js = (JavascriptExecutor) driver;
  vars = new HashMap<String, Object>();
 }
 @After
 public void tearDown() {
  driver.quit();
 }
 public String waitForWindow(int timeout) {
  try {
   Thread.sleep(timeout);
  } catch (InterruptedException e) {
   e.printStackTrace();
  }
  Set<String> whNow = driver.getWindowHandles();
  @SuppressWarnings("unchecked")
      Set<String> whThen = (Set<String>) vars.get("window_handles");
  if (whNow.size() > whThen.size()) {
```

```java
      whNow.removeAll(whThen);

    }

    return whNow.iterator().next();

  }

  @SuppressWarnings("deprecation")

  @Test

  public void rEQ07EmprestimoDevolucao() {

    driver.get("https://ts-scel.herokuapp.com/login");

    driver.manage().window().setSize(new Dimension(1294, 1040));

    driver.findElement(By.cssSelector(".form")).click();

    driver.findElement(By.name("username")).click();

    driver.findElement(By.name("username")).sendKeys("jose");

    driver.findElement(By.name("password")).sendKeys("123");

    driver.findElement(By.name("password")).sendKeys(Keys.ENTER);

    driver.findElement(By.linkText("Empréstimo")).click();

    driver.findElement(By.id("isbn")).click();

    driver.findElement(By.id("isbn")).sendKeys("1234");

    driver.findElement(By.id("ra")).sendKeys("1111");

    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();

    driver.findElement(By.cssSelector("html")).click();

    driver.findElement(By.id("isbn")).sendKeys("1111");

    driver.findElement(By.cssSelector(".vsc-initialized")).click();

    driver.findElement(By.id("ra")).sendKeys("1234");

    driver.findElement(By.cssSelector(".row:nth-child(3)")).click();

    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();

    assertThat(driver.findElement(By.cssSelector(".text-danger")).getText(), is("Emprestimo
registrado"));

    vars.put("window_handles", driver.getWindowHandles());

    driver.findElement(By.cssSelector(".btn:nth-child(2)")).click();

    vars.put("win5540", waitForWindow(2000));

    driver.switchTo().window(vars.get("win5540").toString());
```

```java
    driver.findElement(By.cssSelector("tr:nth-child(4) .btn")).click();

    assertThat(driver.findElement(By.cssSelector("tr:nth-child(4) > td:nth-child(6)")).getText(),
is("2021/06/18"));

  }
}
```

```java
// ROBSON HENRIQUE FERREIRA | RA: 1110481823026


package com.fatec.cap09;


import static org.hamcrest.CoreMatchers.is;

import static org.junit.Assert.assertThat;

import java.util.HashMap;

import org.junit.After;

import org.junit.Before;

import org.junit.jupiter.api.Test;

import org.openqa.selenium.By;

import org.openqa.selenium.Dimension;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;



public class REQ08LoginFalhaTest {
 private WebDriver driver;
 JavascriptExecutor js;
 @Before
 public void setUp() {
   driver = new ChromeDriver();
```

```java
    js = (JavascriptExecutor) driver;

    new HashMap<String, Object>();

  }

  @After

  public void tearDown() {

    driver.quit();

  }

  @SuppressWarnings("deprecation")

@Test

  public void rEQ08LoginFalha() {

    driver.get("https://ts-scel.herokuapp.com/login");

    driver.manage().window().setSize(new Dimension(1294, 1040));

    driver.findElement(By.name("username")).click();

    driver.findElement(By.name("username")).sendKeys("joseee");

    driver.findElement(By.name("password")).sendKeys("123");

    driver.findElement(By.name("password")).sendKeys(Keys.ENTER);

    assertThat(driver.findElement(By.cssSelector(".vsc-initialized > div")).getText(), is("Invalid
username and password."));

  }

}
```

// ROBSON HENRIQUE FERREIRA | RA: 1110481823026

```java
package com.fatec.cap09;


import java.util.HashMap;

import org.junit.After;

import org.junit.Before;

import org.junit.jupiter.api.Test;
```

```java
import org.openqa.selenium.By;

import org.openqa.selenium.Dimension;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;


public class REQ09LoginJoseTest {
 private WebDriver driver;
 JavascriptExecutor js;
 @Before
 public void setUp() {
  driver = new ChromeDriver();
  js = (JavascriptExecutor) driver;
  new HashMap<String, Object>();
 }
 @After
 public void tearDown() {
  driver.quit();
 }
 @Test
 public void rEQ09LoginJose() {
  driver.get("https://ts-scel.herokuapp.com/login");
  driver.manage().window().setSize(new Dimension(1294, 1040));
  driver.findElement(By.name("username")).click();
  driver.findElement(By.name("username")).sendKeys("jose");
  driver.findElement(By.name("password")).sendKeys("123");
  driver.findElement(By.name("password")).sendKeys(Keys.ENTER);
  driver.findElement(By.linkText("Livros")).click();
  driver.findElement(By.linkText("Voltar")).click();
```

```java
    driver.findElement(By.linkText("Empréstimo")).click();
  }
}




// ROBSON HENRIQUE FERREIRA | RA: 1110481823026


package com.fatec.cap09;


import java.util.HashMap;

import org.junit.After;

import org.junit.Before;

import org.junit.jupiter.api.Test;

import org.openqa.selenium.By;

import org.openqa.selenium.Dimension;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;



public class REQ10LoginMariaTest {
  private WebDriver driver;
  JavascriptExecutor js;
  @Before
  public void setUp() {
    driver = new ChromeDriver();
    js = (JavascriptExecutor) driver;
    new HashMap<String, Object>();
  }
  @After
```

```java
    public void tearDown() {

        driver.quit();

    }

    @Test

    public void rEQ10LoginMaria() {

        driver.get("https://ts-scel.herokuapp.com/login");

        driver.manage().window().setSize(new Dimension(1294, 1040));

        driver.findElement(By.name("username")).click();

        driver.findElement(By.name("username")).sendKeys("maria");

        driver.findElement(By.name("password")).sendKeys("456");

        driver.findElement(By.name("password")).sendKeys(Keys.ENTER);

        driver.findElement(By.linkText("Alunos")).click();

        driver.findElement(By.linkText("Voltar")).click();

        driver.findElement(By.linkText("Livros")).click();

        driver.findElement(By.linkText("Voltar")).click();

        driver.findElement(By.linkText("Empréstimo")).click();

    }

}
```