

Fatec – Curso: Análise e Desenvolvimento de Sistemas  
Disciplina – Teste de Software  
Prof. Edson Saraiva de Almeida  
**Técnica de Selenium-WebDriver**  
**Relatório de Teste**

Projeto – SCEL – Sistema de Controle de Empréstimo e Devolução de Livros  
Versão 2.0  
Ambiente de Teste - <https://ts-scel.herokuapp.com/>  
Data - 06/05/2021  
Nome: Vagner Magnon Martins  
R.A: 1110481912053

**Scripts:**

**REQ01-CT01**

```
import org.junit.Test;
import org.junit.Before;
import org.junit.After;
import static org.junit.Assert.*;
import static org.hamcrest.CoreMatchers.is;
import static org.hamcrest.core.IsNot.not;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;

public class REQ01CT01CadastroComSucessoTest {
```

```

    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();
}
    @Test public void rEQ01CT01CadastroComSucesso() {
driver.get("https://ts-scel.herokuapp.com/login");
driver.manage().window().setSize(new Dimension(1440, 780));
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("9754");
driver.findElement(By.id("autor")).click();
driver.findElement(By.id("autor")).sendKeys("Fernando");
driver.findElement(By.id("titulo")).click();
driver.findElement(By.id("titulo")).sendKeys("Arraia");
driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    assertThat(driver.findElement(By.cssSelector(".panel-title")).getText(), is("Lista de livros"));
}
}

```

## REQ01-CT02

```

import org.junit.Test; import
org.junit.Before; import
org.junit.After; import static
org.junit.Assert.*; import static
org.hamcrest.CoreMatchers.is;
import static
org.hamcrest.core.IsNot.not;

```

```
import
org.openqa.selenium.By;
import
org.openqa.selenium.WebDriv
er; import
org.openqa.selenium.firefox.Fi
refoxDriver; import
org.openqa.selenium.chrome.C
hromeDriver; import
org.openqa.selenium.remote.R
emoteWebDriver; import
org.openqa.selenium.remote.D
esiredCapabilities; import
org.openqa.selenium.Dimensio
n; import
org.openqa.selenium.WebEle
ment; import
org.openqa.selenium.interactio
ns.Actions; import
org.openqa.selenium.support.u
i.ExpectedConditions; import
org.openqa.selenium.support.u
i.WebDriverWait; import
org.openqa.selenium.Javascrip
tExecutor; import
org.openqa.selenium.Alert;
import
org.openqa.selenium.Keys;
import java.util.*; import
java.net.MalformedURLException; import
java.net.URL; public class
REQ01CT02CadastroInvalidoTest { 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(); }

@Test public void rEQ01CT02CadastroInvalido() {
driver.get("https://ts-scel.herokuapp.com/login");
driver.manage().window().setSize(new Dimension(1440, 780));
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")).click();
driver.findElement(By.id("isbn")).sendKeys("4003");
driver.findElement(By.id("autor")).click();
driver.findElement(By.id("autor")).sendKeys("Fernando");
driver.findElement(By.id("titulo")).click();
driver.findElement(By.id("titulo")).sendKeys("Arraia45");
driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    assertThat(driver.findElement(By.cssSelector(".text-danger")).getText(), is("Livro ja cadastrado"));
}
}

```

### **REQ01-CT03**

```

import org.junit.Test;
import org.junit.Before;
import org.junit.After;
import static org.junit.Assert.*;
import static org.hamcrest.CoreMatchers.is;
import static org.hamcrest.core.IsNot.not;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;

```

```

import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException; import
java.net.URL;
public class REQ01CT03CadastroInvalido3CarTest {
    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();
    }
    @Test public void rEQ01CT03CadastroInvalido3Car() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1440, 780));
    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("123");
    driver.findElement(By.id("autor")).click();
    driver.findElement(By.id("autor")).sendKeys("Fernando");
    driver.findElement(By.id("titulo")).click();
    driver.findElement(By.id("titulo")).sendKeys("Arraia2");
    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"));
    }
}

```

#### REQ01-CT04

```
org.junit.Test; import org.junit.Before;
import org.junit.After; import static
org.junit.Assert.*; import static
org.hamcrest.CoreMatchers.is; import static
org.hamcrest.core.IsNot.not; import
org.openqa.selenium.By; import
org.openqa.selenium.WebDriver; import
org.openqa.selenium.firefox.FirefoxDriver;
import
org.openqa.selenium.chrome.ChromeDriver;
import
org.openqa.selenium.remote.RemoteWebDriver;
import
org.openqa.selenium.remote.DesiredCapabilit
ies; import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebElement;
import
org.openqa.selenium.interactions.Actions;
import
org.openqa.selenium.support.ui.ExpectedCond
itions; import
org.openqa.selenium.support.ui.WebDriverWai
t; import
org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert; import
org.openqa.selenium.Keys; import
java.util.*; import
java.net.MalformedURLException; import
java.net.URL;
public class REQ01CT04CadastroInvalido5CarTest {
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();
}
@Test
public void rEQ01CT04CadastroInvalido5Car() { driver.get("https://ts-
scel.herokuapp.com/login"); driver.manage().window().setSize(new Dimension(1440, 780));
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("12345");
driver.findElement(By.id("autor")).click();
    driver.findElement(By.id("autor")).sendKeys("Fernando");
driver.findElement(By.id("titulo")).click();
driver.findElement(By.id("titulo")).sendKeys("Arraia");
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"));
}
}

```

## REQ02-CT01

```

import org.junit.Test;
import org.junit.Before;
import org.junit.After;
import static org.junit.Assert.*;
import static org.hamcrest.CoreMatchers.is;
import static org.hamcrest.core.IsNot.not;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;

```

```
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ01MantemAlunoTests {
    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();
    }
    @Test
    public void rEQ01MantemAlunos() {
        driver.get("https://ts-scel.herokuapp.com/login");
        driver.manage().window().setSize(new Dimension(1440, 780));
        driver.findElement(By.name("username")).click();
        driver.findElement(By.name("username")).sendKeys("maria");
        driver.findElement(By.name("password")).click();
        driver.findElement(By.name("password")).sendKeys("456");
        driver.findElement(By.cssSelector("button")).click();
        driver.findElement(By.linkText("Alunos")).click();
        driver.findElement(By.id("ra")).click();
        driver.findElement(By.id("ra")).sendKeys("4321");
        driver.findElement(By.id("nome")).click();
        driver.findElement(By.id("nome")).sendKeys("Maria");
    }
}
```



```
driver.findElement(By.id("email")).sendKeys("mariasilva@gmail.com");
driver.findElement(By.id("cep")).click();
driver.findElement(By.id("cep")).click();
driver.findElement(By.id("cep")).sendKeys("68928187");
driver.findElement(By.cssSelector("btn:nth-child(1)")).click();
driver.findElement(By.cssSelector(".container-fluid")).click();
assertThat(driver.findElement(By.cssSelector("h3")).getText(), is("Sistema de Controle de Emprestimo"));
}
}
```

## REQ02-CT02

```
import org.junit.Test;
import org.junit.Before;
import org.junit.After;
import static org.junit.Assert.*;
import static org.hamcrest.CoreMatchers.is;
import static org.hamcrest.core.IsNot.not;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;

public class REQ02MantemAlunosExcecoesTestsTest {
    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();
    }
    @Test
    public void rEQ02MantemAlunosExcecoesTests() {
        driver.get("https://ts-scel.herokuapp.com/login");
        driver.manage().window().setSize(new Dimension(1440, 780));
        driver.findElement(By.name("username")).click();
        driver.findElement(By.name("username")).sendKeys("maria");
        driver.findElement(By.name("password")).click();
        driver.findElement(By.name("password")).sendKeys("456");
    }
}
```

```

driver.findElement(By.cssSelector("button")).click();
driver.findElement(By.linkText("Alunos")).click();
driver.findElement(By.id("ra")).click();
driver.findElement(By.id("ra")).click();
driver.findElement(By.id("ra")).sendKeys("123");
driver.findElement(By.id("nome")).click();
driver.findElement(By.id("nome")).sendKeys("Maria");
driver.findElement(By.id("email")).click();
driver.findElement(By.id("email")).sendKeys("nagidokuro@hotmail.com");
driver.findElement(By.id("cep")).click();
driver.findElement(By.id("cep")).sendKeys("08060-001");
driver.findElement(By.id("cep")).click();
driver.findElement(By.id("cep")).sendKeys("08060001");
driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
driver.findElement(By.cssSelector(".col-md-4")).click();
assertThat(driver.findElement(By.cssSelector(".text-danger:nth-child(3)")).getText(), is("RA deve ter 4 caracteres"));
}
}

```

ID	Objetivo	Téc.teste CE/AVL	Resultado satisfatório/insat.	Observações
REQ01-CT01	Validar o comportamento do sistema no cadastro de livro com sucesso	CE	satisfatório	O Script inseriu o livro com sucesso.
REQ01-CT02	Validar o comportamento do sistema no cadastro de livro inválido – ISBN já cadastrado.	CE	satisfatório	O Script identificou que o livro já estava cadastrado efetuando a busca pelo erro “Livro já cadastrado”.
REQ01-CT03	Validar o comportamento do sistema no cadastro de livro inválido – ISBN com 3 caracteres	AVL	satisfatório	O Script identificou que o ISBN estava incorreto efetuando a busca pelo erro “ISBN deve ter 4 caracteres”.
REQ01-CT04	Validar o comportamento do sistema no cadastro de livro inválido – ISBN com 5 caracteres	AVL	satisfatório	O Script identificou que o ISBN estava incorreto efetuando a busca pelo erro “ISBN deve ter 4 caracteres”.
REQ02-CT01	Validar o comportamento ao manter Aluno.	CE	satisfatório	O Script cadastro o aluno corretamente e fez a validação buscando a frase: "Sistema de Controle de Empréstimo".

REQ02-CT02	Validar o comportamento ao registrar aluno com R.A com 3 caracteres.	AVL	satisfatório	O Script identificou que o R.A estava incorreto efetuando a busca pelo erro “"RA deve ter 4 caracteres"”.
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