# FERNANDO COSTA

Esforço: 3h

Fatec – Curso: Análise e Desenvolvimento de Sistemas

Disciplina – Teste de Software Prof. Edson Saraiva de Almeida

Técnica de Caixa-Preta Relatório de Teste

Projeto – SCEL – Sistema de Controle de Empréstimo e Devolução de Livros

Versão 1.0

Ambiente de Teste - https://ts-scel.herokuapp.com/

Data -

ID	Objetivo	Téc.test e CE/AV L	Resultado satisfatório/insat.	Observações
REQ01-CT01	Validar o comportamento do sistema no cadastro de livro com sucesso	CE	Satisfatório	
REQ01-CT02	Validar Comportamento Editar Livro com Sucesso.	CE	Satisfatório	
REQ01-CT03	Excluir Livro com Sucesso	CE	Satisfatório	
REQ02-CT01	Validar o comportamento do sistema no cadastro de ISBN inválido	AVL	Satisfatório	O sistema impediu o cadastro do livro conforme esperado
REQ02-CT02	Validar o comportamento do sistema no cadastro de ISBN já cadastrado.	AVL	Satisfatório	O sistema impediu o cadastro do livro conforme esperado
REQ02-CT03	Validar o comportamento do sistema no cadastro de título inválido	AVL	Satisfatório	O sistema impediu o cadastro do livro conforme esperado
REQ02-CT04	Validar o comportamento do sistema no cadastro de autor inválido	AVL	Satisfatório	O sistema impediu o cadastro do livro conforme esperado
REQ03-CT01	Validar o comportamento do sistema no cadastro válido de aluno	CE	Satisfatório	O sistema realizou o cadastro do aluno com sucesso

REQ03-CT02	Validar o comportamento do sistema ao consultar o usuário	CE	Satisfatório	O sistema realizou o consultou o aluno com sucesso
REQ03-CT03	Validar o comportamento do sistema ao alterar e excluir um usuário	CE	Satisfatório	O sistema realizou o alterou e excluiu o aluno com sucesso
REQ04-CT01	Entrada Inválida – RA 3 dígitos	AVL	Satisfatório	Informou permitir somente 4 caracteres
REQ04-CT02	Entrada Inválida – RA 5 dígitos	AVL	Satisfatório	Informou permitir somente 4 caracteres
REQ04-CT03	Entrada Inválida – RA Repetido	AVL	Satisfatório	Informou dados Inválidos
REQ04-CT04	Entrada Inválida – Nome Válido	AVL	Satisfatório	Permitiu Cadastrar com mesmos dados e RA diferente
REQ04-CT05	Entrada Inválida – Email Em Branco	AVL	Satisfatório	E-mail deve ter entre 1 e 50 caracteres
REQ04-CT06	Entrada Inválida – Email com mais de 50 caracteres	AVL	Satisfatório	E-mail deve ter entre 1 e 50 caracteres
REQ04-CT07	Entrada Inválida – Cep com mais de 7 caracteres	AVL	Satisfatório	CEP deve ter 8 caracteres
REQ04-CT08	Entrada Inválida – Cep com mais de 9 caracteres	AVL	Satisfatório	CEP deve ter 8 caracteres
REQ05-CT01	O sistema deve obter o endereço do aluno com base em um CEP válido cadastrado na base dos correios.	AVL	satisfatório	Sistema retornou endereço corretamente
REQ05-CT02	O sistema deve obter o endereço do aluno com base em um CEP inválido cadastrado na base dos correios.		satisfatório	Cadastro de aluno rejeitado com cep inválido
REQ06-CT01	Validar o comportamento do sistema no registro de empréstimo de livros	CE	Satisfatório	O sistema realizou o cadastro empréstimo do livro e gerou uma data válida para devolução prevista

REQ07-CT01	Realizar Emprestimo de Livro	CE	Satisfatório	
REQ07-CT02	registrar a data da devolução do livro	AVL	Satisfatório	
REQ08-CT01	Teste de Logins Não Cadastrados	AVL	Satisfatório	
REQ09-CT01	O usuário com id "jose" somente tem acesso as funcionalidades mantem livro e registrar empréstimo (autorização).	AVL	satisfatório	Usuário jose conseguiu cadastrar livro
REQ09-CT02	O usuário com id "jose" somente tem acesso as funcionalidades mantem livro e registrar empréstimo (autorização).	AVL	satisfatório	Usuário jose conseguiu registrar empréstimo
REQ09-CT03	O usuário com id "jose" somente tem acesso as funcionalidades mantem livro e registrar empréstimo (autorização).	AVL	insatisfatorio	Usuário jose conseguiu cadastrar usuário
REQ10-CT01	Teste de Login usuário Maria – Acesso mantem aluno	AVL	Satisfatório	
REQ10-CT02	Teste de Login usuário Maria – Acesso mantem livro	AVL	Satisfatório	
REQ10-CT03	Teste de Login usuário Maria – Acesso mantem registrar emprestimo	AVL	Satisfatório	
			1	

# 1-REQ01CT01CadastrarLivroComSucessoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver:
import org.openga.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement:
import org.openga.selenium.interactions.Actions:
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ01CT01CadastrarLivroComSucessoTest {
 private WebDriver driver:
  private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
    driver = new ChromeDriver();
    js = (JavascriptExecutor) driver;
    vars = new HashMap<String, Object>();
  public void tearDown() {
    driver.quit();
  @Test
  public void rE001CT01CadastrarLivroComSucesso() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    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("Livros")).click();
    driver.findElement(By.id("isbn")).click();
    driver.findElement(Bv.id("isbn")).click();
    driver.findElement(Bv.id("isbn")).sendKevs("4567");
    driver.findElement(By.id("autor")).click();
    driver.findElement(By.id("autor")).sendKeys("Jose Alright");
    driver.findElement(By.id("titulo")).sendKeys("Teste do José");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    driver.findElement(By.cssSelector("html")).click();
```

### 2-REQ01CT02EditarLivroComSucessoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions:
import org.openga.selenium.support.ui.ExpectedConditions:
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openda.selenium.Alert:
import org.openqa.selenium.Keys;
import java.util.*:
import java.net.MalformedURLException;
import java.net.URL:
public class REO01CT02EditarLivroComSucessoTest {
 private WebDriver driver;
  private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
   driver = new ChromeDriver():
    js = (JavascriptExecutor) driver;
   vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
   driver.quit():
  @Test
  public void rEO01CT02EditarLivroComSucesso() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    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("Livros")).click();
    driver.findElement(By.id("isbn")).click();
    driver.findElement(By.id("isbn")).click();
    driver.findElement(By.cssSelector("html")).click();
    driver.findElement(By.linkText("Lista de Livros")).click();
    driver.findElement(Bv.cssSelector("tr:nth-child(3) .btn-primary")).click();
    driver.findElement(By.id("titulo")).click();
    driver.findElement(By.id("titulo")).sendKeys("Teste do Jose");
    driver.findElement(By.cssSelector(".btn")).click();
```

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openga.selenium.WebElement:
import org.openga.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*:
import java.net.MalformedURLException;
import java.net.URL:
public class REQ01CT03ExcluirLivroComSucessoTest {
 private WebDriver driver;
 private Map<String, Object> vars;
 JavascriptExecutor is:
 @Before
 public void setUp() {
   driver = new ChromeDriver();
   js = (JavascriptExecutor) driver;
   vars = new HashMap<String, Object>();
 @After
 public void tearDown() {
   driver.quit();
 @Test
 public void rEQ01CT03ExcluirLivroComSucesso() {
   driver.get("https://ts-scel.herokuapp.com/login");
   driver.manage().window().setSize(new Dimension(1417, 1029));
   driver.findElement(By.name("username")).click();
   driver.findElement(Bv.name("username")).sendKevs("jose");
   driver.findElement(By.name("password")).sendKeys("123");
   driver.findElement(By.cssSelector("button")).click();
    driver.findElement(By.linkText("Livros")).click();
   driver.findElement(By.linkText("Livros")).click();
   driver.findElement(By.linkText("Lista de Livros")).click();
   driver.findElement(By.cssSelector("tr:nth-child(1) .delete")).click();
```

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver:
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities:
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions:
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert:
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException:
import java.net.URL:
public class RE002CT01CadastroIsbnInvalidoTest {
 private WebDriver driver;
  private Map<String, Object> vars:
  JavascriptExecutor is:
  @Before
  public void setUp() {
    driver = new ChromeDriver();
    js = (JavascriptExecutor) driver;
    vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
    driver.quit();
  @Test
  public void rEQ02CT01CadastroIsbnInvalido() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1080, 975));
    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("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("Fulano");
    driver.findElement(By.id("titulo")).sendKeys("Aula de testes");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

# 5-REQ02CT02CadastroIsbnJaCadastradoTest.java

```
// Generated by Selenium IDE
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.openga.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.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ02CT02CadastroIsbnJaCadastradoTest {
  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>();
   public void tearDown() {
     driver.quit();
   public void rEQ02CT02CadastroIsbnJaCadastrado() {
     driver.get("https://ts-scel.herokuapp.com/login");
     driver.manage().window().setSize(new Dimension(1265, 975));
driver.findElement(By.cssSelector(".form")).click();
     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.cssSelector(".col-md-4")).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("fulano");
driver.findElement(By.cssSelector(".row:nth-child(4) > .col-md-8")).click();
driver.findElement(By.id("titulo")).click();
    driver.findElement(By.id("titulo")).sendKeys("Aula de testes");
driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
     driver.findElement(By.cssSelector("body")).click();
driver.findElement(By.id("autor")).click();
     driver.findElement(By.id("autor")).click();
       WebElement element = driver.findElement(By.id("autor"));
       Actions builder = new Actions(driver);
       builder.doubleClick(element).perform();
     driver.findElement(By.id("autor")).click();
     driver.findElement(By.id("autor")).sendKeys("Ciclano");
driver.findElement(By.id("titulo")).sendKeys("Aula de testes2");
     driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

# 6-REQ02CT03CadastroTituloInvalidoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class RE002CT03CadastroTituloInvalidoTest {
 private WebDriver driver:
 private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
    driver = new ChromeDriver();
    is = (JavascriptExecutor) driver;
    vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
    driver.quit();
  @Test
  public void rEQ02CT03CadastroTituloInvalido() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1265, 975));
    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("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("Fulano");
    driver.findElement(By.cssSelector(".row:nth-child(4) > .col-md-8")).click();
    driver.findElement(By.id("titulo")).click();
    driver.findElement(By.cssSelector("body")).click();
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    driver.findElement(By.id("titulo")).click();
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

# 7-REQ02CT04CadastroaAutorInvalidoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver:
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Kevs:
import java.util.*;
import java.net.MalformedURLException:
import java.net.URL;
public class REQ02CT04CadastroaAutorInvalidoTest {
 private WebDriver driver;
 private Map<String, Object> vars;
  JavascriptExecutor js;
  @Before
  public void setUp() {
   driver = new ChromeDriver();
   is = (JavascriptExecutor) driver;
    vars = new HashMap<String, Object>();
  public void tearDown() {
   driver.quit();
  @Test
  public void rEQ02CT04CadastroaAutorInvalido() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1265, 975));
    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("Livros")).click();
    driver.findElement(By.id("isbn")).click();
    driver.findElement(By.id("isbn")).sendKeys("1234");
    driver.findElement(Bv.id("autor")).click();
    driver.findElement(Bv.id("titulo")).click();
    driver.findElement(By.id("titulo")).sendKeys("Aula de testes");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    driver.findElement(By.id("autor")).click();
   driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

# 8-REQ03CT01CadastroAlunoComSucessoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.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 REQ03CT01CadastroAlunoComSucessoTest {
  private WebDriver driver;
  private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
   driver = new ChromeDriver();
    js = (JavascriptExecutor) driver;
   vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
   driver.quit();
  @Test
  public void rEQ03CT01CadastroAlunoComSucesso() {
   driver.get("https://ts-scel.herokuapp.com/login");
   driver.manage().window().setSize(new Dimension(1265, 975));
   driver.findElement(By.name("username")).click();
   driver.findElement(By.name("username")).sendKeys("maria");
   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(Bv.id("ra")).sendKevs("9642");
   driver.findElement(Bv.id("nome")).sendKevs("Fulano");
   driver.findElement(By.id("email")).sendKeys("fulano@fatec.sp.gov.br");
   driver.findElement(Bv.cssSelector("body")).click();
   driver.findElement(By.cssSelector("body")).click();
   driver.findElement(By.id("nome")).sendKeys("ciclano");
   driver.findElement(By.cssSelector(".row:nth-child(4) > .form-group")).click();
   driver.findElement(By.id("email")).sendKeys("ciclano@fatec.sp.gov.br");
   driver.findElement(By.cssSelector(".row:nth-child(2) > .col-md-8:nth-child(1)")).click();
   driver.findElement(By.id("cep")).click();
   driver.findElement(By.cssSelector("body")).click();
   driver.findElement(By.id("cep")).sendKeys("03276110");
   driver.findElement(By.cssSelector("html")).click();
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

# 9-REQ03CT02ConsultarUsuarioTest.java

```
// Generated by Selenium IDE
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.openga.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ03CT02ConsultarUsuarioTest {
 private WebDriver driver;
 private Map<String, Object> vars;
 JavascriptExecutor js;
 @Before
 public void setUp() {
   driver = new ChromeDriver();
    is = (JavascriptExecutor) driver:
    vars = new HashMap<String, Object>();
 @After
 public void tearDown() {
    driver.quit();
 public String waitForWindow(int timeout) {
      Thread.sleep(timeout);
    } catch (InterruptedException e) {
     e.printStackTrace();
    Set<String> whNow = driver.getWindowHandles();
    Set<String> whThen = (Set<String>) vars.get("window_handles");
    if (whNow.size() > whThen.size()) {
     whNow.removeAll(whThen);
    return whNow.iterator().next();
 @Test
 public void rEO03CT02ConsultarUsuario() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1265, 975));
    driver.findElement(By.name("username")).click();
    driver.findElement(By.name("username")).sendKeys("maria");
    driver.findElement(By.name("password")).sendKeys("456");
    driver.findElement(By.cssSelector("button")).click();
    driver.findElement(By.linkText("Alunos")).click();
    vars.put("window handles", driver.getWindowHandles());
    driver.findElement(By.cssSelector(".btn:nth-child(2)")).click();
    vars.put("win6934", waitForWindow(2000));
    driver.switchTo().window(vars.get("win6934").toString());
```

# 10-REQ03CT03EdicaoAlteracaoExclusaoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openga.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.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class RE003CT03EdicaoAlteracaoExclusaoTest {
  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>();
  public void tearDown() {
   driver.quit();
  public String waitForWindow(int timeout) {
      Thread.sleep(timeout);
    } catch (InterruptedException e) {
     e.printStackTrace();
    Set<String> whNow = driver.getWindowHandles();
    Set<String> whThen = (Set<String>) vars.get("window_handles");
    if (whNow.size() > whThen.size()) {
      whNow.removeAll(whThen);
    return whNow.iterator().next();
  public void rEQ03CT03EdicaoAlteracaoExclusao() {
   driver.get("https://ts-scel.herokuapp.com/login");
   driver.manage().window().setSize(new Dimension(1265, 975));
    driver.findElement(By.name("username")).click();
    driver.findElement(By.name("username")).sendKeys("maria");
    driver.findElement(By.name("password")).sendKeys("456");
   driver.findElement(By.cssSelector("button")).click();
    driver.findElement(By.linkText("Alunos")).click();
    vars.put("window_handles", driver.getWindowHandles());
    driver.findElement(By.cssSelector(".btn:nth-child(2)")).click();
   vars.put("win4639", waitForWindow(2000));
    driver.switchTo().window(vars.get("win4639").toString());
    driver.findElement(By.cssSelector("tr:nth-child(4) .btn-primary")).click();
    driver.findElement(By.cssSelector(".container")).click();
   driver.findElement(By.id("nome")).sendKeys("ciclano atualizado");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    driver.findElement(By.cssSelector("tr:nth-child(4) .delete")).click();
```

# 11-REQ04CT01RAInvalido3digitosTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class RE004CT01RAInvalido3digitosTest {
 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 rEO04CT01RAInvalido3digitos() {
   driver.get("https://ts-scel.herokuapp.com/");
   driver.manage().window().setSize(new Dimension(1417, 1029));
   driver.findElement(By.linkText("Alunos")).click();
   driver.findElement(By.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("123");
   driver.findElement(By.id("nome")).sendKeys("Aluno Teste");
    driver.findElement(By.id("email")).sendKeys("aluno@teste.com.br");
   driver.findElement(By.id("cep")).sendKeys("01511000");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
}
```

# 12-REQ04CT02RAInvalido5DigitosTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver:
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.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 REQ04CT02RAInvalido5DigitosTest {
 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 rE004CT02RAInvalido5Digitos() {
    driver.get("https://ts-scel.herokuapp.com/");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.linkText("Alunos")).click();
    driver.findElement(By.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("12345");
    driver.findElement(Bv.id("nome")).sendKevs("Aluno Teste");
    driver.findElement(By.id("email")).sendKeys("aluno@teste.com.br");
    driver.findElement(By.id("cep")).sendKeys("01511000");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
}
```

#### 13-REQ04CT03RARepetidoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ04CT03RARepetidoTest {
  private WebDriver driver:
  private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
   driver = new ChromeDriver();
   is = (JavascriptExecutor) driver:
   vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
    driver.quit();
  @Test
  public void rEQ04CT03RARepetido() {
   driver.get("https://ts-scel.herokuapp.com/");
   driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.linkText("Alunos")).click();
   driver.findElement(By.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("1234");
    driver.findElement(By.id("nome")).sendKeys("Aluno Teste");
    driver.findElement(By.id("email")).sendKeys("aluno@teste.com.br");
    driver.findElement(By.id("cep")).sendKeys("01511000");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
}
```

# 14-REQ04CT04NomeVlidoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ04CT04NomeVlidoTest {
 private WebDriver driver;
 private Map<String, Object> vars;
 JavascriptExecutor is:
 @Before
 public void setUp() {
    driver = new ChromeDriver();
    js = (JavascriptExecutor) driver;
   vars = new HashMap<String, Object>();
 @After
  public void tearDown() {
    driver.quit();
 @Test
 public void rEQ04CT04NomeVlido() {
    driver.get("https://ts-scel.herokuapp.com/");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.linkText("Alunos")).click();
    driver.findElement(By.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("5647");
    driver.findElement(By.id("nome")).sendKeys("Aluno Teste");
    driver.findElement(By.id("email")).sendKeys("aluno@teste.com.br");
    driver.findElement(By.id("cep")).sendKeys("01511000");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

# 15-REQ04CT05Email0CaracteresTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions:
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openda.selenium.Alert:
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL:
public class REQ04CT05Email0CaracteresTest {
  private WebDriver driver;
  private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
    driver = new ChromeDriver();
    is = (JavascriptExecutor) driver;
    vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
    driver.quit();
  public void rEQ04CT05Email0Caracteres() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.cssSelector("body")).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();
    driver.findElement(Bv.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("2564");
    driver.findElement(By.id("nome")).sendKeys("Teste Email");
    driver.findElement(By.id("cep")).sendKeys("01511000");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

# 16-REQ04CT06Email51caracteres1Test.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openga.selenium.Kevs:
import java.util.*:
import java.net.MalformedURLException;
import java.net.URL;
public class RE004CT06Email51caracteres1Test {
 private WebDriver driver;
 private Map<String, Object> vars;
 JavascriptExecutor is:
 @Before
 public void setUp() {
   driver = new ChromeDriver();
   js = (JavascriptExecutor) driver;
   vars = new HashMap<String, Object>();
  @After
 public void tearDown() {
   driver.quit():
 @Test
 public void rE004CT06Email51caracteres1() {
   driver.get("https://ts-scel.herokuapp.com/");
   driver.manage().window().setSize(new Dimension(1417, 1029));
   driver.findElement(By.linkText("Alunos")).click();
   driver.findElement(By.id("ra")).click();
   driver.findElement(By.id("ra")).sendKeys("3145");
   driver.findElement(By.id("nome")).sendKeys("Aluno Teste");
   driver.findElement(By.id("cep")).sendKeys("01511000");
   driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

# 17-REQ04CT07Cep7CaracteresTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class RE004CT07Cep7CaracteresTest {
  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 rE004CT07Cep7Caracteres() {
    driver.get("https://ts-scel.herokuapp.com/");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.linkText("Alunos")).click();
    driver.findElement(By.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("8471");
    driver.findElement(By.id("nome")).sendKeys("Aluno Teste");
    driver.findElement(By.id("email")).sendKeys("aluno@teste.com.br");
    driver.findElement(By.id("cep")).sendKeys("0151100");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

```
// Generated by Selenium IDE
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.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openqa.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ04CT08Cep9CaracteresTest {
  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 rE004CT08Cep9Caracteres() {
    driver.get("https://ts-scel.herokuapp.com/");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.linkText("Alunos")).click();
    driver.findElement(By.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("8471");
    driver.findElement(By.id("nome")).sendKeys("Aluno Teste");
    driver.findElement(By.id("email")).sendKeys("aluno@teste.com.br");
    driver.findElement(By.id("cep")).sendKeys("0151100");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
}
```

## 19-REQ05CT01CepVlidoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver:
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL:
public class REQ05CT01CepVlidoTest {
 private WebDriver driver:
 private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
 public void setUp() {
    driver = new ChromeDriver();
    is = (JavascriptExecutor) driver:
    vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
    driver.quit();
  public void rEO05CT01CepVlido() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1920, 780));
    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.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("8888");
    driver.findElement(By.id("nome")).click();
    driver.findElement(By.id("nome")).sendKeys("josephino");
    driver.findElement(By.id("email")).sendKeys("j@j.com");
    driver.findElement(By.id("cep")).sendKeys("01310100");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    driver.findElement(By.cssSelector("tr:nth-child(6)")).click();
```

#### 20-REQ05CT02CepInvlidoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver:
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ05CT02CepInvlidoTest {
 private WebDriver driver;
  private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
    driver = new ChromeDriver();
    is = (JavascriptExecutor) driver;
    vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
    driver.quit();
  @Test
  public void rEO05CT02CepInvlido() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1920, 780));
    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.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("9999");
    driver.findElement(By.id("nome")).sendKeys("zezinho");
    driver.findElement(By.id("email")).sendKeys("z@z.com");
    driver.findElement(By.id("cep")).sendKeys("99999999");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
driver.findElement(By.cssSelector("body")).click();
    driver.findElement(By.cssSelector(".row:nth-child(4)")).click();
```

# 21-REQ06CT01RegistroDeEmprestimoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openga.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.openga.selenium.Alert;
import org.openqa.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ06CT01RegistroDeEmprestimoTest {
 private WebDriver driver;
  private Map<String, Object> vars;
  JavascriptExecutor js;
  @Before
  public void setUp() {
   driver = new ChromeDriver();
    is = (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();
    Set<String> whThen = (Set<String>) vars.get("window_handles");
    if (whNow.size() > whThen.size()) {
     whNow.removeAll(whThen);
    return whNow.iterator().next();
  public void rEQ06CT01RegistroDeEmprestimo() {
   driver.get("https://ts-scel.herokuapp.com/");
    driver.manage().window().setSize(new Dimension(1265, 975));
    driver.findElement(By.linkText("Empréstimo")).click();
    driver.findElement(By.id("isbn")).click();
    driver.findElement(By.id("isbn")).sendKeys("1334");
    driver.findElement(By.id("ra")).click();
    driver.findElement(By.id("ra")).sendKeys("9765");
    driver.findElement(By.cssSelector(".card-body")).click();
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    vars.put("window_handles", driver.getWindowHandles());
    driver.findElement(By.cssSelector(".btn:nth-child(2)")).click();
    vars.put("win1376", waitForWindow(2000));
    driver.switchTo().window(vars.get("win1376").toString());
    driver.findElement(By.cssSelector("tr:nth-child(4) .btn")).click();
```

```
// Generated by Selenium IDE
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.openga.selenium.WebDriver:
import org.openga.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Kevs;
import java.util.*:
import java.net.MalformedURLException;
import java.net.URL:
public class REO07CT01GravarDataDevoluoEmprestimo1Test {
 private WebDriver driver;
 private Map<String, Object> vars;
  JavascriptExecutor is:
 @Before
  public void setUp() {
    driver = new ChromeDriver();
    is = (JavascriptExecutor) driver:
    vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
    driver.quit();
  public void rE007CT01GravarDataDevoluoEmprestimo1() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.name("username")).click();
    driver.findElement(By.cssSelector("body")).click();
      WebElement element = driver.findElement(By.cssSelector("body"));
      Actions builder = new Actions(driver);
      builder.doubleClick(element).perform();
    driver.findElement(By.cssSelector("button")).click();
    driver.findElement(By.linkText("Empréstimo")).click();
    driver.findElement(By.id("isbn")).click();
    driver.findElement(By.id("isbn")).sendKeys("1239");
    driver.findElement(By.id("ra")).sendKeys("5647");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver:
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ07CT02GravarEmprestimoISBNAlunoTest {
  private WebDriver driver;
  private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
    driver = new ChromeDriver();
    is = (JavascriptExecutor) driver;
    vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
    driver.quit();
  @Test
  public void rEO07CT02GravarEmprestimoISBNAluno() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.name("username")).click();
    driver.findElement(By.cssSelector("body")).click();
      WebElement element = driver.findElement(By.cssSelector("body"));
      Actions builder = new Actions(driver);
      builder.doubleClick(element).perform();
    driver.findElement(By.cssSelector("button")).click();
    driver.findElement(By.linkText("Empréstimo")).click();
    driver.findElement(By.id("isbn")).click();
    driver.findElement(By.id("isbn")).sendKeys("1239");
driver.findElement(By.id("ra")).sendKeys("5647");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
}
```

```
// Generated by Selenium IDE
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.openga.selenium.WebDriver:
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Kevs;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class RE008CT01TesteUsuarioNaoCadastradoTest {
  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 rEQ08CT01TesteUsuarioNaoCadastrado() {
   driver.get("https://ts-scel.herokuapp.com/login");
   driver.manage().window().setSize(new Dimension(1417, 1029));
   driver.findElement(By.cssSelector("body")).click();
   driver.findElement(By.name("username")).sendKeys("TESTE");
   driver.findElement(By.name("password")).sendKeys("aleatoria");
   driver.findElement(By.cssSelector("button")).click();
```

# 25-REQ09CT01AcessoAlunoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver:
import org.openqa.selenium.remote.RemoteWebDriver;
import org.openqa.selenium.remote.DesiredCapabilities:
import org.openqa.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*:
import java.net.MalformedURLException;
import java.net.URL;
public class RE009CT01AcessoAlunoTest {
 private WebDriver driver;
 private Map<String, Object> vars;
 JavascriptExecutor is:
  @Before
 public void setUp() {
   driver = new ChromeDriver():
   is = (JavascriptExecutor) driver;
   vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
   driver.quit();
  @Test
  public void rEO09CT01AcessoAluno() {
   driver.get("https://ts-scel.herokuapp.com/login?error");
   driver.manage().window().setSize(new Dimension(1920, 780));
   driver.findElement(By.name("username")).click();
   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();
   driver.findElement(By.id("ra")).click();
   driver.findElement(By.id("ra")).sendKeys("4455");
   driver.findElement(Bv.id("nome")).click();
   driver.findElement(By.id("nome")).click();
   driver.findElement(By.id("nome")).sendKeys("Alisson");
   driver.findElement(By.id("email")).sendKeys("a@a.com");
   driver.findElement(By.id("cep")).sendKeys(" 01310100");
   driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
   driver.findElement(By.id("cep")).click();
   driver.findElement(By.id("cep")).click();
   driver.findElement(By.id("cep")).sendKeys("01310100");
   driver.findElement(Bv.cssSelector(".btn:nth-child(1)")).click();
}
```

# 26-REQ09CT02AcessoLivrosTest.java

```
// Generated by Selenium IDE
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.openga.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension:
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions:
import org.openga.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor:
import org.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*:
import java.net.MalformedURLException;
import java.net.URL:
public class REQ09CT02AcessoLivrosTest {
  private WebDriver driver:
  private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
   driver = new ChromeDriver():
   is = (JavascriptExecutor) driver:
   vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
   driver.quit();
  public void rE009CT02AcessoLivros() {
   driver.get("https://ts-scel.herokuapp.com/login");
   driver.manage().window().setSize(new Dimension(1920, 780));
   driver.findElement(Bv.name("username")).click();
   driver.findElement(Bv.name("username")).sendKevs("jose");
   driver.findElement(By.name("password")).sendKeys("123");
   driver.findElement(By.name("password")).sendKeys(Keys.ENTER);
   driver.findElement(Bv.linkText("Livros")).click();
   driver.findElement(By.id("isbn")).click();
   driver.findElement(By.id("isbn")).sendKeys("9781405507677");
   driver.findElement(By.id("autor")).click();
   driver.findElement(By.id("autor")).sendKeys("Stephenie Meyer");
   driver.findElement(Bv.id("titulo")).click();
   driver.findElement(By.id("titulo")).sendKeys("Crepusculo");
   driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
   driver.findElement(By.id("isbn")).click();
   driver.findElement(By.cssSelector(".row:nth-child(2)")).click();
   driver.findElement(Bv.id("isbn")).sendKevs("9781");
   driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
   driver.findElement(Bv.cssSelector("html")).click();
   driver.findElement(By.cssSelector("tr:nth-child(3)")).click();
```

# 27-REQ09CT03AcessoEmprestimoTest.java

```
// Generated by Selenium IDE
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.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.openga.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.openga.selenium.Keys;
 import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ09CT03AcessoEmprestimoTest {
    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>();
     public void tearDown() {
       driver.quit();
     public String waitForWindow(int timeout) {
       try {
   Thread.sleep(timeout);
       } catch (InterruptedException e) {
e.printStackTrace();
         Set<String> whNow = driver.getWindowHandles();
       SetCString> whThen = (SetCString>) vars.get("window_handles");
if (whNow.size() > whThen.size()) {
   whNow.removeAll(whThen);
        return whNow.iterator().next();
     public void rEQ09CT03AcessoEmprestimo() {
      driver.get("https://ts-scel.herokuapp.com/login");
driver.manage().window().setSize(new Dimension(1920, 780));
      driver.manage().window().setSize(new Dimension(1920, 700)
driver.findElement(0).name("username")).click();
driver.findElement(0y.name("username")).sendKeys("jose");
driver.findElement(0y.name("password")).sendKeys("123");
driver.findElement(0y.name("password")).click();
driver.findElement(0y.cssSelector("button")).click();
driver.findElement(0y.linkText("Empréstimo")).click();
      Griver.findlement(By.id("sin").click();
driver.findlement(By.id("sin").click();
driver.findlement(By.id("sin")).click();
driver.findlement(By.id("ra")).click();
driver.findlement(By.id("ra")).sendKeys("7777");
driver.findlement(By.id("ra")).sendKeys("7777");
driver.findlement(By.cssSelector(".btn:nth-child(1)")).click();
driver.findlement(By.cssSelector(".card-body")).click();
driver.findlement(By.id("ra")).sendKeys("4455");
       driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
       driver.findElement(By.id("ra")).click();
driver.findElement(By.id("ra")).click();
           WebElement element = driver.findElement(By.id("ra"));
Actions builder = new Actions(driver):
            builder.doubleClick(element).perform();
       driver.findElement(By.id("ra")).click();
driver.findElement(By.id("ra")).click();
            WebElement element = driver.findElement(By.id("ra"));
           Actions builder = new Actions(driver);
builder.doubleClick(element).perform();
       fdriver.findElement(By.id("ra")).click();
driver.findElement(By.id("ra")).sendKeys("1234");
driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
        vars.put("window_handles", driver.getWindowHandles());
       vals.pdc(window_landide, in live.iserindownands()),
driver.findflement(By.cssSelector(".btn:nth-child(2)")).click();
vars.put("win6213", waitForWindow(2000));
driver.switchTo().window(vars.get("win6213").toString());
        driver.findElement(By.cssSelector("tr:nth-child(6)")).click();
```

# 28-REQ10CT01MariaManterAlunoTest.java

```
// Generated by Selenium IDE
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.openga.selenium.Alert;
import org.openga.selenium.Keys;
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REQ10CT01MariaManterAlunoTest {
  private WebDriver driver;
  private Map<String, Object> vars;
  JavascriptExecutor is:
  @Before
  public void setUp() {
    driver = new ChromeDriver();
     js = (JavascriptExecutor) driver;
     vars = new HashMap<String, Object>();
  public void tearDown() {
    driver.quit();
  public String waitForWindow(int timeout) {
    try {
       Thread.sleep(timeout);
    } catch (InterruptedException e) {
      e.printStackTrace();
    Set<String> whNow = driver.getWindowHandles();
    Set(String> whThen = (Set(String>) vars.get("window_handles");
if (whNow.size() > whThen.size()) {
       whNow.removeAll(whThen);
    return whNow.iterator().next();
  public void rEQ10CT01MariaManterAluno() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.cssSelector("form")).click();
    driver.findElement(By.name("username")).sendKeys("maria");
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("1425");
driver.findElement(By.id("nome")).sendKeys("Teste Maria");
    driver.findElement(By.id("email")).sendKeys("maria@maria.com.br");
    driver.findElement(By.id("cep")).sendKeys("01511000");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    driver.findElement(By.cssSelector("tr:nth-child(5) .delete")).click();
driver.findElement(By.cssSelector("tr:nth-child(5) .btn-primary")).click();
    driver.findflement(By.id("nome")).click();
driver.findflement(By.id("nome")).sendKeys("Teste Maria Edit");
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
    driver.findElement(By.linkText("Voltar")).click();
    driver.findElement(By.linkText("Alunos")).click();
    vars.put("window_handles", driver.getWindowHandles());
driver.findElement(By.cssSelector(".btn:nth-child(2)")).click();
vars.put("win3014", waitForWindow(2000));
    driver.switchTo().window(vars.get("win3014").toString());
```

# 29-REQ10CT02MariaManterLivroTest.java

```
// Generated by Selenium IDE
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.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension;
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions:
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openga.selenium.support.ui.WebDriverWait;
import org.openqa.selenium.JavascriptExecutor;
import org.openga.selenium.Alert;
import org.openda.selenium.Kevs:
import java.util.*;
import java.net.MalformedURLException:
import java.net.URL;
public class RE010CT02MariaManterLivroTest {
  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 void rE010CT02MariaManterLivro() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.cssSelector("body")).click();
    driver.findElement(By.name("username")).sendKeys("maria");
driver.findElement(By.name("password")).sendKeys("456");
    driver.findElement(By.cssSelector("button")).click();
    driver.findElement(By.linkText("Livros")).click();
    driver.findElement(By.id("isbn")).click();
    driver.findElement(By.id("isbn")).sendKeys("1425");
    driver.findElement(By.id("autor")).sendKeys("Maria Tester");
    driver.findElement(By.id("titulo")).sendKeys("Teste da Maria");
    driver.findElement(By.cssSelector(".btn:nth-child(1)").click();
driver.findElement(By.cssSelector("tr:nth-child(4) .btn-primary")).click();
    driver.findElement(By.id("autor")).click();
    driver.findElement(By.id("autor")).sendKeys("Maria Tester Edit");
    driver.findElement(By.cssSelector(".btn")).click();
    driver.findElement(By.cssSelector("tr:nth-child(4) .delete")).click();
```

```
// Generated by Selenium IDE
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.openga.selenium.WebDriver;
import org.openga.selenium.firefox.FirefoxDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.remote.RemoteWebDriver;
import org.openga.selenium.remote.DesiredCapabilities;
import org.openga.selenium.Dimension:
import org.openga.selenium.WebElement;
import org.openga.selenium.interactions.Actions;
import org.openga.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.openga.selenium.JavascriptExecutor:
import org.openga.selenium.Alert;
import org.openga.selenium.Kevs:
import java.util.*;
import java.net.MalformedURLException;
import java.net.URL;
public class REO10CT03MariaRealizarEmprestimoTest {
  private WebDriver driver:
  private Map<String, Object> vars;
  JavascriptExecutor js;
  @Before
  public void setUp() {
    driver = new ChromeDriver();
    is = (JavascriptExecutor) driver;
    vars = new HashMap<String, Object>();
  @After
  public void tearDown() {
    driver.quit();
  public void rEQ10CT03MariaRealizarEmprestimo() {
    driver.get("https://ts-scel.herokuapp.com/login");
    driver.manage().window().setSize(new Dimension(1417, 1029));
    driver.findElement(By.name("username")).click();
    driver.findElement(By.name("username")).click();
      WebElement element = driver.findElement(By.name("username"));
      Actions builder = new Actions(driver);
      builder.doubleClick(element).perform();
    driver.findElement(By.name("username")).sendKeys("maria");
    driver.findElement(By.name("password")).sendKeys("456");
    driver.findElement(By.cssSelector("button")).click();
    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("1234");
    driver.findElement(By.cssSelector("body")).click();
    driver.findElement(By.cssSelector(".btn:nth-child(1)")).click();
```