

# **INTRODUCTION TO WEB PROGRAMMING**

## **TESTING DOCUMENTATION**

**TESTING RADNIKBA WEBSITE**

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# 1. Introduction


## 1.1. About the project testing

The testing was done as part of the project for the CEN 236 Introduction to Web Programming at International Burch University.

## 1.2. Project Functionalities and Screenshots

We tested the radnikba page that we created as part of a project for the CEN 236 Introduction to Web Programming at International Burch University.

Radnikba is an online platform for advertising construction workers. Aware of the lack of construction workers in our country, we believe that a platform is needed so that insight into all workers are more easily accessible. Users of the platform will be able to see all the basic information about workers.



Dobrodošli na Radnikba

Email adresa

[Prijavi se](#)

[Registruj se...](#)

*Login page*



## Registruj se na Radnikba

Registruj se

[Nazad na Login](#)

*Registration page*

# Dobrodošli na Radnikba! Platforma za oglašavanje radnika

Pretraga

Dodaj posao

**Gradjevinar**

Poslovi vezani za gradjenje

Uredi

Obriši

Svi radnici

**Vrtlar**

Uredjivanje vrtova i prirode

Uredi

Obriši

Svi radnici

**Elektricar**

Rad sa elektricnim instalacijama

Uredi

Obriši

Svi radnici

**Vodoinstalater**

Popravak vodovodnih instalacija

Uredi

Obriši

Svi radnici

## Dostupni radnici



Ime: Ervin Vlastic | Grad: Tuzla | Telefon: 0000000 | Email: blabla@gmail.com | Adresa: Munira Gavrankapetanovica 10

Komentari

Obriši

Ime: Test Tester | Grad: City | Telefon: 0000000 | Email: test.test@gmail.com | Adresa: Test Testera 10

Komentari

Obriši

Ime i prezime

Email

Grad

Telefon

Adresa

Dodaj

*Main features*

## 2. Test Plan

### 2.1. Scope

We made sure to cover all important parts of the website. Our focus was to confirm all functionalities of given website work as intended. We separated tests so each one of them covers one functionality.

### 2.2. Testing Environment and Tools

For IDE we used Eclipse with JUnit 5 and Selenium. All tests are written using Java programming language.

## 3. Test Execution

### 3.1. Login test

<b>Test Name:</b> loginTest()				
<b>Description:</b> User login test				
<b>Pre-condition(s):</b>				
<b>Test Steps:</b>  1. Enter email 2. Enter password 3. Click “Login” button	<b>Test Data:</b>  - Email, password of test user	<b>Expected Result:</b>  - At the end of the test, the user should successfully log in	<b>Actual Result:</b>  User successfully logged in	<b>Status:</b>  PASS

```

}
/* Login testing on the radnikba page
 * */
@Test
@Order(1)
void loginTest() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().window().maximize();
    Thread.sleep(5000);

    WebElement email = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[1]/input"));
    email.clear();
    email.sendKeys("admin@gmail.com");
    Thread.sleep(2000);

    WebElement password = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[2]/input"));
    password.clear();
    password.sendKeys("0000");
    Thread.sleep(2000);

    WebElement prijavaSebutton = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/button"));
    prijavaSebutton.click();
    Thread.sleep(5000);
}

```

### 3.2. Register test

<b>Test Name:</b> registerTest()				
<b>Description:</b> User registration test				
<b>Pre-condition(s):</b>				
<b>Test Steps:</b>  1. Press “Registruj se” 2. Enter name 3. Enter surname 4. Enter email 5. Enter password 6. Enter city 7. Press register button	<b>Test Data:</b>  -Name and surname, email, password, city,	<b>Expected Result:</b>  We expect the test user to register successfully	<b>Actual Result:</b>  Registration successfully completed	<b>Status:</b>  PASS
<b>Notes:</b>				



```

}

/* Register testing on the radnikha page
 * */
@Test
@Order(2)
void registerTest() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().window().maximize();
    Thread.sleep(3000);

    WebElement registrujSe = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[3]/a"));
    registrujSe.click();
    Thread.sleep(2000);

    WebElement ime = webDriver.findElement(By.xpath("/html/body/main/div/div[2]/div/div/div/div/form/div[1]/input"));
    ime.sendKeys("Test");
    Thread.sleep(2000);

    WebElement prezime = webDriver.findElement(By.xpath("/html/body/main/div/div[2]/div/div/div/div/form/div[2]/input"));
    prezime.sendKeys("Tester");
    Thread.sleep(2000);

    WebElement email = webDriver.findElement(By.xpath("/html/body/main/div/div[2]/div/div/div/div/form/div[3]/input"));
    email.sendKeys("test.tester@gmail.com");
    Thread.sleep(2000);

    WebElement lozinka = webDriver.findElement(By.xpath("/html/body/main/div/div[2]/div/div/div/div/form/div[4]/input"));
    lozinka.sendKeys("123456");
    Thread.sleep(2000);

    WebElement scroll = webDriver.findElement(By.xpath("/html/body/main/div/div[2]/div/div/div/div/form/button"));
    scroll.sendKeys(Keys.PAGE_DOWN);
    Thread.sleep(2000);

    WebElement grad = webDriver.findElement(By.xpath("/html/body/main/div/div[2]/div/div/div/div/form/div[5]/input"));
    grad.sendKeys("Sarajevo");
    Thread.sleep(2000);

    WebElement registrujSebutton = webDriver.findElement(By.xpath("/html/body/main/div/div[2]/div/div/div/div/form/button"));
    registrujSebutton.click();
    Thread.sleep(5000);
}

```

### 3.3. Test on the review of workers and reviews

<b>Test Name:</b> reviewTest()				
<b>Description:</b> Test whether the user has insight into the workers and the option to add and delete reviews.				
<b>Pre-condition(s):</b>				
<b>Test Steps:</b>  1. Enter email 2. Enter password 3. Click “Login” button 4. Press “Svi radnici” button 5. Press “Komentari” 6. Choose a rating 7. Add comment text 8. Add comment 9. Delete comment	<b>Test Data:</b>  Email, password Comment text	<b>Expected Result:</b>  The user should see the workers, add a review successfully (rating and comment), and then delete the comment he previously added.	<b>Actual Result:</b>  Review successfully added and deleted	<b>Status:</b>  PASS
<b>Notes:</b>				

```

void reviewTest() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().window().maximize();
    Thread.sleep(5000);

    WebElement email = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[1]/input"));
    email.clear();
    email.sendKeys("admin@gmail.com");
    Thread.sleep(2000);

    WebElement password = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[2]/input"));
    password.clear();
    password.sendKeys("0000");
    Thread.sleep(2000);

    WebElement prijavaSebutton = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/button"));
    prijavaSebutton.click();
    Thread.sleep(2000);

    WebElement scroll = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[2]/div[2]/div/div/div/button[3]"));
    scroll.sendKeys(Keys.PAGE_DOWN);
    Thread.sleep(2000);

    WebElement sviRadnici = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[2]/div[2]/div/div/div/button[3]"));
    sviRadnici.click();
    Thread.sleep(2000);

    WebElement komentari = webDriver.findElement(By.xpath("/html/body/div[3]/div/div/div[2]/div/div[2]/button[2]"));
    komentari.click();
    Thread.sleep(2000);

    WebElement ocjena = webDriver.findElement(By.xpath("/html/body/div[4]/div/div/div[3]/form/div/div[1]/select"));
    ocjena.click();
    Thread.sleep(2000);

    WebElement ocjena5 = webDriver.findElement(By.xpath("/html/body/div[4]/div/div/div[3]/form/div/div[1]/select/option[2]"));
    ocjena5.click();
    Thread.sleep(1000);

    WebElement komentar = webDriver.findElement(By.xpath("/html/body/div[4]/div/div/div[3]/form/div/div[2]/input"));
    komentar.sendKeys("Odlican radnik");
    Thread.sleep(2000);

    WebElement dodajButton = webDriver.findElement(By.xpath("/html/body/div[4]/div/div/div[3]/form/div/div[3]/button"));
    dodajButton.click();
    Thread.sleep(3000);

    WebElement obrisiButton = webDriver.findElement(By.xpath("/html/body/div[4]/div/div/div[2]/div/div/button"));
    obrisiButton.click();
    Thread.sleep(3000);
}

```

### 3.4 Search test

<b>Test Name:</b> searchTest()				
<b>Description:</b> Testing the search option				
<b>Pre-condition(s):</b>				
<b>Test Steps:</b>  1. Enter email 2. Enter password 3. Click “Login” button 4. Press “Pretraga” button 5. Enter the search 6. Press search	<b>Test Data:</b>  Email, password Search text	<b>Expected Result:</b>  Search results should be printed on the entered search text	<b>Actual Result:</b>  The test showed that the functionality works successfully	<b>Status:</b>  PASS
<b>Notes:</b>				

```

/* Testing the search on the radnikba page
 * */
@Test
@Order(4)
void searchTest() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().window().maximize();
    Thread.sleep(5000);

    WebElement email = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[1]/input"));
    email.clear();
    email.sendKeys("admin@gmail.com");
    Thread.sleep(2000);

    WebElement password = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[2]/input"));
    password.clear();
    password.sendKeys("0000");
    Thread.sleep(2000);

    WebElement prijavaSebutton = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/button"));
    prijavaSebutton.click();
    Thread.sleep(2000);

    WebElement pretragaButton = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[1]/button[1]"));
    pretragaButton.click();
    Thread.sleep(3000);

    WebElement upisUpretragu = webDriver.findElement(By.xpath("/html/body/main/div[1]/form/input"));
    upisUpretragu.sendKeys("sarajevo");
    Thread.sleep(2000);

    WebElement pretraziButton = webDriver.findElement(By.xpath("/html/body/main/div[1]/form/button"));
    pretraziButton.click();
    Thread.sleep(3000);
}

```

### 3.5 Admin Test

Test Name: adminTest()				
Description: Admin login and testing adding, editing and deleting jobs				
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Enter email 2. Enter password 3. Click "Login" button 4. Press "Dodaj posao" 5. Enter job name 6. Enter job description 7. Press "Potvrđi" 8. Press "Uredi" 9. Edit job name 10. Edit job description 11. Press "Sacuvaj promjene" 12. Press "Obrisi"	-Email, password, job name, job description	Successful login as admin, adding a job, editing a job (job name and job description) and deleting a job	Actions performed as expected	PASS

```

void adminTest() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().window().maximize();
    Thread.sleep(5000);

    WebElement email = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[1]/input"));
    email.clear();
    email.sendKeys("admin@gmail.com");
    Thread.sleep(2000);

    WebElement password = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[2]/input"));
    password.clear();
    password.sendKeys("0000");
    Thread.sleep(2000);

    WebElement prijavaSebutton = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/button"));
    prijavaSebutton.click();
    Thread.sleep(2000);

    WebElement dodajPosao = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[1]/button[2]"));
    dodajPosao.click();
    Thread.sleep(3000);

    WebElement imePosla = webDriver.findElement(By.xpath("/html/body/div[2]/div/div/form/div[2]/div[1]/input"));
    imePosla.sendKeys("Testni posao");
    Thread.sleep(2000);

    WebElement opisPosla = webDriver.findElement(By.xpath("/html/body/div[2]/div/div/form/div[2]/div[2]/input"));
    opisPosla.sendKeys("Testni posao");
    Thread.sleep(2000);

    WebElement potvrdi = webDriver.findElement(By.xpath("/html/body/div[2]/div/div/form/div[3]/button[2]"));
    potvrdi.click();
    Thread.sleep(3000);

    WebElement scroll = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[2]/div[5]/div/div/div/button[1]"));
    scroll.sendKeys(Keys.PAGE_DOWN);
    Thread.sleep(2000);

    WebElement urediPosao = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[2]/div[5]/div/div/div/button[1]"));
    urediPosao.click();
    Thread.sleep(3000);

    WebElement imePoslal = webDriver.findElement(By.xpath("/html/body/div[1]/div/div/div[2]/input[2]"));
    imePoslal.clear();
    imePoslal.sendKeys("Testni posao 1");
    Thread.sleep(2000);

    WebElement opisPoslal = webDriver.findElement(By.xpath("/html/body/div[1]/div/div/div[2]/input[3]"));
    opisPoslal.clear();
    opisPoslal.sendKeys("Testni posao 1");
    Thread.sleep(2000);

    WebElement sacuvajPromjene = webDriver.findElement(By.xpath("/html/body/div[1]/div/div/div[3]/button[2]"));
    sacuvajPromjene.click();
    Thread.sleep(3000);

    WebElement scroll12 = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[2]/div[5]/div/div/div/button[2]"));
    scroll12.sendKeys(Keys.PAGE_DOWN);
    Thread.sleep(2000);

    WebElement obrisiPosao = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[2]/div[5]/div/div/div/button[2]"));
    obrisiPosao.click();
    Thread.sleep(3000);
}

```

### 3.6 Test for adding and deleting workers

<b>Test Name:</b> adminTest2()				
<b>Description:</b> Adding and deleting workers as admin				
<b>Pre-condition(s):</b>				
<b>Test Steps:</b>	<b>Test Data:</b>	<b>Expected Result:</b>	<b>Actual Result:</b>	<b>Status:</b>
1. Enter email 2. Enter password 3. Click "Login" button 4. Press "Svi radnici" 5. Enter name and surname 6. Enter email 7. Enter city 8. Enter phone 9. Enter address 10. Press "Dodaj" 11. Press "Obrisi" for deleting worker	-Email, password, Name, surname, email, city, phone, address	Successfully adding and deleting a worker	Actions performed as expected	PASS



```

@Test
void adminTest2() throws InterruptedException {
    webDriver.get(baseUrl);
    webDriver.manage().window().maximize();
    Thread.sleep(5000);

    WebElement email = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[1]/input"));
    email.clear();
    email.sendKeys("admin@gmail.com");
    Thread.sleep(2000);

    WebElement password = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/div[2]/input"));
    password.clear();
    password.sendKeys("0000");
    Thread.sleep(2000);

    WebElement prijavaSebutton = webDriver.findElement(By.xpath("/html/body/main/div/div[1]/div/div/div/div/form/button"));
    prijavaSebutton.click();
    Thread.sleep(2000);

    WebElement scroll = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[2]/div[3]/div/div/div/button[3]"));
    scroll.sendKeys(Keys.PAGE_DOWN);
    Thread.sleep(2000);

    WebElement sviRadnici = webDriver.findElement(By.xpath("/html/body/main/div[2]/div[2]/div[3]/div/div/div/button[3]"));
    sviRadnici.click();
    Thread.sleep(3000);

    WebElement imeIprezime = webDriver.findElement(By.xpath("/html/body/div[3]/div/div/div[3]/form/div/div[1]/input"));
    imeIprezime.sendKeys("Test Tester");
    Thread.sleep(2000);

    WebElement email2 = webDriver.findElement(By.xpath("/html/body/div[3]/div/div/div[3]/form/div/div[2]/input"));
    email2.sendKeys("test.test@gmail.com");
    Thread.sleep(2000);

    WebElement grad = webDriver.findElement(By.xpath("/html/body/div[3]/div/div/div[3]/form/div/div[3]/input"));
    grad.sendKeys("Testni grad");
    Thread.sleep(2000);

    WebElement telefon = webDriver.findElement(By.xpath("/html/body/div[3]/div/div/div[3]/form/div/div[4]/input"));
    telefon.sendKeys("061111212");
    Thread.sleep(2000);

    WebElement adresa = webDriver.findElement(By.xpath("/html/body/div[3]/div/div/div[3]/form/div/div[5]/input"));
    adresa.sendKeys("Testna adresa");
    Thread.sleep(2000);

    WebElement dodaj = webDriver.findElement(By.xpath("/html/body/div[3]/div/div/div[3]/form/div/div[6]/button"));
    dodaj.click();
    Thread.sleep(3000);

    WebElement obrisi = webDriver.findElement(By.xpath("/html/body/div[3]/div/div/div[2]/div/div/button[1]"));
    obrisi.click();
    Thread.sleep(3000);
}

```

## Conclusion

### 3.7 Testing Summary

Testing Tool	Total Tests	Passed Tests	Failed Tests
Selenium, Junit and Eclipse with Java programming language	6	6	0

### 3.8 Final Thoughts

Every test was successfully passed, and we are very satisfied with the work done.