

# **SOFTWARE VERIFICATION, VALIDATION AND TESTING**

## **TESTING DOCUMENTATION**

***“ TECHNO SHOP MARKET „***

Prepared by:

**Amela Redžić**

**Namir Hlivnjak**

**Dinela Hadžajlić**

Proposed to:

**Samed Jukić, Assist. Prof. Dr.**

**Aldin Kovačević, Teaching Assistant**

21st of January, 2023.

# TABLE OF CONTENTS

## Contents

1. Introduction.....	3
1.1. About the Project.....	3
1.2. Project Functionalities and Screenshots.....	3
2. Test Plan.....	5
2.1. Scope.....	5
2.2. Testing Environment and Tools.....	5
3. Test Execution.....	5
3.1. Open web page.....	5
3.2. Log In.....	6
3.3 Catalogs and offers.....	7
3.4 Sales points .....	7
3.5 Gift and coupons .....	8
9. Conclusion .....	9
9.1. Testing Summary .....	9
9.2. Final Thoughts .....	9

# 1. Introduction

## 1.1. About the Project

The project which are we testing is a techno shop market application. It is an e-commerce platform that allows users to browse and purchase various technology products such as smartphones, laptops, and other gadgets. We are currently testing a specific pages of this application, which could be a feature such as the product catalog, the shopping cart, or the checkout process. The goal of our testing is to ensure that the page functions correctly and provides a smooth user experience.

**LINK TO PAGE :**

## 1.2. Project Functionalities and Screenshots

Like every website and application, depending on its purpose, it can have many functions. These are some of the functions that **technoshop.ba** contains:

1. Registration – user can create a new profile or log in into profile if already have
2. Search option – user can search about products and find something that exactly need
3. Cart – user can put in cart something or remove it
4. Chat – user can ask administration for some product description
5. Online purchase – user can buy something online

Here is some pictures of functionalities which we mention :

### - Registration process

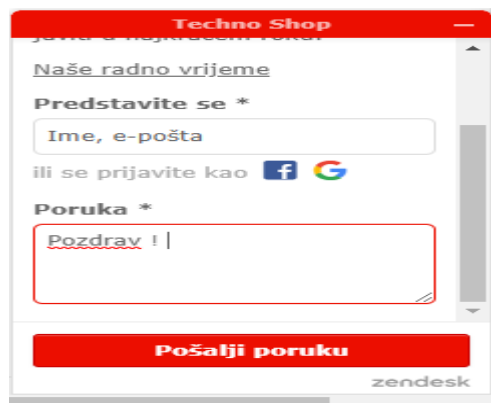
- Search engine and categories



- Products in cart



- Chat bar



## 2. Test Plan

### 2.1. Scope

Every project can test the entire application or focus on specific parts/features of it, depending on the requirements, constraints and the resources available. It's important to prioritize the most important features and test them thoroughly. Our goal is to test this application to the end and to put all functions and features to high level of work with full potential. In our project we will provide full testing of pages and functions which this market platform have. During testing, the goal is to find all possible weak points and repair them. In the multitude of important factors of each page, we aim to focus especially on the basic things and functions that are important to all users. This includes optimization, loading speed, security and appearance.

### 2.2. Testing Environment and Tools

In our project, we are using Java as the programming language and Eclipse as the development framework. Eclipse is a popular open-source Integrated Development Environment (IDE) that supports a wide range of programming languages, including Java. It provides a powerful set of tools for editing, debugging, and testing code, and it's widely used by developers around the world. Additionally, more people but definitely some of our college used some other tools and frameworks like JUnit, TestNG, or Selenium for testing and Maven or Gradle for managing dependencies, building and deploying application.

## 3. Test Execution

### 3.1. Open web page

This test was very easy with easy steps, but it's very important for potential buyers.

Test Name: Open web page				
Description: Test description				
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Find the right web page address 2. Open and wait page to provide all data	In these test you don't need to put any data	Expected result for this test is full potential market space for user with all product.	Actual result is same like expected.	FAIL
<b>Notes:</b> This test was failed because this web page probably have some protection for bots or robots and access is denied.				

```

package com.example.demo;

import com.codeborne.selenide.*;

@TestMethodOrder(MethodOrderer.OrderAnnotation.class)
public class MainPageTest {
    private final MainPage mainPage = new MainPage();

    @BeforeAll
    public static void setUpAllure() {
        SelenideLogger.addListener("allure", new AllureSelenide());
    }

    @BeforeEach
    public void setUp() throws InterruptedException {
        Configuration.startMaximized = true;
        open("https://technoshop.ba/");
    }
}

```

### 3.2. Log In

Every user can create new account or login to existing one. User wants to login to his account to be able to find products, check all necessary data and probably order it.

Test Name: Login test				
Description: Check user data				
Pre-condition(s): Account must already exist in system				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. Find the man icon on right upper side of screen 3. Click and open it 4. Enter your email and password	Email : <a href="mailto:namirhlivnjak5@gmail.com">namirhlivnjak5@gmail.com</a> Password : sarajevo1	The user is taken to the home page and now can put products in cart and proceed to shopping.		FAIL
<b>Notes:</b> Also this test was failed and the reason is same as the first one test.				

```

@Order(11)
@Test
public void newsletterTest() throws InterruptedException {
    mainPage.newsletter.click();

    mainPage.newsletterNameField.sendKeys("Amela");
    mainPage.newsletterLastNameField.sendKeys("Redzic");
    mainPage.newsletterEmailField.sendKeys("amela.redzic@gmail.com");
    //Test ispravljen ali pada jer vec postoji mail u bazi

    mainPage.newsletterButtonSubmit.click();

    Thread.sleep(3000);
    assertEquals("Uspjeh! ste se prijavili na mailing listu. Na upisanu e-mail adresu je poslan " +
        "link za potvrdu prijave.",
        $(byXpath("//div[contains(@class, 'newsletter-info')]")).getText());
}

@Order(12)

```

### 3.3 Catalogs and offers

Test Name: Catalogs and offers				
Description: Checking all offers				
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Choose a specific product, model, color and click on it 2. Check the price of the product and choose a payment method 3. In case of inconsistency, put it in the basket	Product availability	The product is available or not.	The product is available.	PASS

```
product (0)  
@Test  
public void kataloziIPonudeMenuTest() {  
    mainPage.kataloziIPonudeMenu.click();  
    mainPage.kataloziMainPage.shouldBe(visible);  
}
```

### 3.4 Sales points

Test Name: Sales points				
Description: Checking all shops where can buy products				
Pre-condition(s): No any condition needed.				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Go to the home page 2. In top navigation bar click on contact selection 3. Open it and select retail 4. Then page will open all shop places		The page will provide all available shop places to user.	Right places with right working time and addreses.	PASS
Notes: User can see all places.				

```

    @Order(9)
    @Test
    public void prodajnaMjestaTest() {
        mainPage.prodajnaMjesta.click();

        mainPage.prodajnaMjestaMainContent.shouldBe(visible);

        mainPage.prodajnaMjestaWeb.shouldBe(visible);
        mainPage.prodajnaMjestaSarajevo1.shouldBe(visible);
        mainPage.prodajnaMjestaBanjaLuka.shouldBe(visible);
        mainPage.prodajnaMjestaBihac.shouldBe(visible);
        mainPage.prodajnaMjestaMostar.shouldBe(visible);
        mainPage.prodajnaMjestaSarajevo2.shouldBe(visible);
        mainPage.prodajnaMjestaSarajevo3.shouldBe(visible);
        mainPage.prodajnaMjestaTuzla.shouldBe(visible);
        mainPage.prodajnaMjestaVisoko.shouldBe(visible);
        mainPage.prodajnaMjestaZenica.shouldBe(visible);
    }
}

```

### 3.5 Gift and coupons

Test Name: Gifts and coupons				
Description: Check users coupons				
Pre-condition(s):				
Test Steps:	Test Data:	Expected Result:	Actual Result:	Status:
1. Open the page and search which products have discounts or gift vouchers 2. Select the offered option 3. Specify the necessary details 4. Proceed to checkout		Gift certificate is available, everything functions work.	Gift certificate is created perfectly.	PASS
Notes: User won the gift.				

```

    @Order(10)
    @Test
    public void poklonBonoviCanOpenTest() {
        mainPage.poklonBonovi.click();

        mainPage.poklonBonoviContent.shouldBe(visible);
    }
}

```



## 9. Conclusion

### 9.1. Testing Summary

Provide a summary of all your executed tests. Something like this would be alright:

Testing Tool	Total Tests	Passed Tests	Failed Tests
ECLIPSE	20	# 18	# 2

Failed test are 3.1 and 3.2.

### 9.2. Final Thoughts

In the end, we would like to point out that we are especially glad that we participated in a project like this and where we were able to learn some new things when it comes to web sites. Namely, during the entire project, we aimed to fulfill all the requirements that a single user might have. With this project, we conclude that it is very necessary to do a detailed analysis before the launch of each project in order to prevent all possible errors and flaws of a website, application, etc. It's important to keep in mind that, thorough testing can help identify and fix any issues early on and that can save time and money in the long run. Additionally, testing is a critical step in ensuring that the application is of high quality and that it meets the needs of its users.