

TEST PLAN

„EVIDENCIJA RAČUNARSKE OPREME“

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# Introduction

In this Test Plan, we will describe the process of testing the website (puppies-closet.com/evidencija.) "Evidencija računarske opreme". Before starting the testing, we had to familiarize ourselves with the documentation of this site, which we received for inspection and use from its creator.

The task is to test the site using different methods. To test this site we will use manual testing through various methods. Automated testing and other performance testing will also be used. It should be noted that api testing will also be done, but not on this page. Api testing will be done on the page (https://randomuser.me/api/), by writing a minimum of 5 test cases.

The tools we will use during site testing are:

* **Visual Studio Code** as a coding tool,
* **Selenium WebDriver** and **Postman API** as tools for simulating web drivers and API requests,
* **Apache JMeter** for analysis purposes
* **Screenrec** as a screenshot and video tool,

# Software Specification Overview

|  |  |
| --- | --- |
| **Module name** | **Description** |
| **Account managnement** | Section of the website that allows the creation of new admin and user profiles, as well as  changes and deletion of profiles. |
| **Header and Footer** | Two page sections that include navigation bars, functional links, User guide, Reporting difficulties in work and Contact. |
| **Employees** | Section of the website that enables the admin profile to create new profies, manage and delete existing profiles. This section allows the assignment and decommissioning of equipment  to and from individual employees. |
| **Equipment** | Section of the website that enables the admin profile to manage, create or delete new  equipment statuses. |
| **Reports** | Section of the website that allows the downloading and printing of four reports tied of equipment in the company. |
| **Type and Brand of Equipment** | Section of the website that allows the registration of new or changes to data of existing types and brands of equipment. |
| **Office/Organizations units** | Section of the website that allows the registration and management of data on offices,  organization units and its employees. |

# Modules and Flow Overview

In this segment, the tester will introduce concepts of test cases and bug priority. Priority is a scale that lets developers know what level of priority is assigned to a particular test case.

**Priority tags**

The priority tags are as follows:

**[C] = critical,** the website is not functional without this feature;

[H] = high, malfunction of this feature will greatly affect the website;

[M] = medium, this feature is not essential, but it requires tester’s attention;

[L] = low, the feature is not crucial to the functional and logical integrity of the website.

|  |  |
| --- | --- |
| **Priority** | **Quantity of features & subfeatures** |
| Critical | 13 |
| High | 22 |
| Medim | 3 |
| Low | 4 |
| **Total** | 42 |

These are the **testable elements** and flows for each module, as well as their respective priority tags:

1. HEADER AND FOOTER
   1. Header

1.1.1.„Zaposleni“ [H]

1.1.2. „Oprema“ [H]

1.1.3. „Izvještaji“ [H]

1.1.4. „Tip Proizvođač Opreme“ [H]

1.1.5. „Kancelarija Organizaciona Jedinica“ [H]

1.1.6. „Administracija Korisnika“ [C]

1.1.7. „Odjava“ [C]

* 1. Footer

1.2.1.„Korisničko uputstvo“ [H]

1.2.2.„Prijava poteškoća u radu“ [M]

1. „ZAPOSLENI ZADUŽIVANJE/RAZDUŽIVANJE“

2.1.Entry new data about employee [C]

2.2. Search tab for employees [M]

2.3. List of employees [H]

2.4. Changes to employee data [H]

2.5. Assignment and decommissioning of equipment [C]

2.6. Deletion of employee data [H]

1. „OPREMA“
   1. Entry form to register new equipment [C]
   2. Search for equipment type [M]
   3. List of equipment [H]
   4. Change of information on equipment [H]
   5. Deletion of information on equipment [H]
2. „IZVJEŠTAJI“
   1. . Reports on assigned equipment per organization unit [L]
   2. Reports on assigned equipment per office [L]
   3. Reports on assigned equipment per employee [L]
   4. Reports on available or decommissioned equipment [L]
3. „TIP – PROIZVOĐAČ OPREME“

5.1. Entry of new type of equipment [C]

5.2. Changes to type of equipment [H]

5.3. Deletion of type of equipment [H]

5.4. Entry of equipment based on brand [C]

5.5. Changes to equipment based on brand [H]

5.6. Deletion of equipment based on brand [H]

1. „KANCELARIJA /ORGANIZACIONE JEDINICE“
   1. Entry of new office data [C]
   2. Changes to office data [H]
   3. Deletion of office data [H]
   4. Entry of new data on organizational units [C]
   5. Changes to data on organizational units [H]
   6. Deletion of data on organizational units [H]
2. „ADMINISTRACIJA KORISNIKA“
   1. Admin validation

7.1.1. Logging in as admin [C]

7.1.2. Creation of new admin profile [C]

7.1.3. Creation of new user profile [C]

7.1.4. Changes to existing profiles [H]

7.1.5. Deletion of existing profiles [H]

7.2. User validation

7.2.1. Logging in as User [C]

# Coverage

This test plan will cover several techniques and methods in software testing. We used the following manual testing methods: Functional testing, black box testing, exploratory testing, positive testing, negative testing.

Automated testing will be included for certain components, including the process of

adding or deleting employee or equipment information, testing functionalities to account management. We will use Visual Studio Code to create automated tests, and we will use Selenium as a testing framework.

Testing of the website’s API will be done using Postman. Apache Jmeter will be used for

performance testing.

# Findings

The website was tested in detail with a total of 123 manual tests and 10 automated tests using Selenium Webdriver and Python, 3 performance testing in apache jmeter. API testing was conducted on a different site, since the original website does not have any API links embedded.

123 manual tests were performed on this page. 53 tests had a "fail" status, while the other 70 had a "pass" status. Also, 10 automatic tests were written for various modules. 8 automation tests had a “pass” status, while two had a “fail” status.