**Test Plan**

**Project “California Marketing”** <https://qasvus.wixsite.com/ca-marketing>

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**Table of Contents**

1. Introduction
2. Scope
3. Sub – Tasks
   1. Manual Testing
   2. Automation Testing
   3. API Testing
   4. Performance Automation Testing
   5. Security Automation Testing
4. Tests Summary
5. **INTRODUCTION**

This document describes approaches and methodologies that will apply to the modules: “Main page”, “Log In”, “Shop” of the website: <https://qasvus.wixsite.com/ca-marketing> This document has clearly identified sub-tasks of website's module testing, types of testing, what devices, environments and tools to be used. It includes test cases with expected and actual results, schedule and executing estimated time each of sub-tasks and entire project**.**

**2. SCOPE**

The document mainly targets the GUI, Exploratory, Functional Positive and Negative testing of User’s Personal Account, Address Menu and Shop. Performance and Security testing of the website**.**

**3. SUB-TASKS**

**3.1.** WEBSITE MANUAL TEST

Execute manual testing for the User’s Personal Account Address Menu based on the next types of

**testing:**

- Exploratory testing

- Functional Positive testing

- Functional Negative testing

**Exploratory Testing:**

Exploratory testing will include a type of software testing where Test cases are not created in advance but

QA check system on the fly.

**Functional Positive testing:**

Checks whether an application behaves as expected with positive inputs.

**Functional Negative testing:**

Invalid data is inserted to compare the output against the given input.

**Testing tools used:**

Microsoft Excel

Microsoft Word

**Environment Support:**

- Laptop OS: Windows 11/ 64

- Browsers (latest versions): Google Chrome, Microsoft Edge

|  |  |  |
| --- | --- | --- |
| **Tests** | **Browsers** | **Test result** |
| Positive “Log In” | HROME | Pass |
| Positive “Log In” | EDGE | Pass |
| Positive “Shop” | HROME | Pass |
| Positive “Shop” | EDGE | Pass |
| Negative ”Shop” | HROME | Pass |
| Negative “Shop” | EDGE | Pass |

**3.2. WEBSITE AUTOMATION TEST**

Automation tests are created by using Selenium WebDriver Python and Unites frameworks on the basis of

Functional manual test cases and executes to check functionality of User’s Account and Shop.

**Testing tools used:**

PyCharm, Selenium, Browserstack, HTML report.

**Environment Support:**

- Laptop OS: Windows 11/ 64

- Browsers (latest versions): Google Chrome, Microsoft Edge

|  |  |  |
| --- | --- | --- |
| **Tests** | **Browsers** | **Test result** |
| Positive “Log In” | HROME | Pass |
| Positive “Log In” | EDGE | Pass |
| Positive “Shop” | HROME | Pass |
| Positive “Shop” | EDGE | Pass |
| Negative “Shop” | HROME | Pass |
| Negative “Shop” | EDGE | Pass |

**3.3. API TESTING**

Create the API collection and fully automatize it in the Postman app. The plan for the API testing is to create requests to POST, GET and DELETE address on our account on California Marketing Website. We need to fully inspect response from the server by creating prescripts, tests, and the appropriate environment.

**Positive:**

Create the **POST** request which creates a new address and additional tests that check the response.

Create the **GET** request which fetches the info about the newly created address.

Create a **PATCH** request that makes changes to the address.

Create the **GET** request which fetches the info about the changes address.

Create the **DELETE** request that deletes this address.

Create the **GET** request which fetches the info about the deleted address.

**Negative:**

Create the **DELETE** request again to check that we cannot delete a deleted address.

Then create the **GET** request to make sure that we cannot fetch the deleted address**.**

Create a **PATCH** request that we cannot make changes to the deleted address.

Create the **GET** to make sure that we cannot receive information about the change of the deleted address.

**Testing tools used:**

Postman

**Environment Support:**

- Laptop OS: Windows 11/ 64

|  |  |
| --- | --- |
| **Collection Positive Test** | **Test Result** |
| POST | Pass |
| GET | Pass |
| PATCH | Pass |
| GET | Pass |
| DELETE | Pass |
| GET | Pass |

|  |  |
| --- | --- |
| **Collection Negative Test** | **Test Result** |
| DELETE | Pass |
| GET | Pass |
| PATCH | Pass |
| GET | Pass |

1. **Automated Performance testing**. Completing the performance testing by using: Lighthouse, GTMetrix and SpeedLab tools. The plan is to use the appropriate tools to confirm that the performance on the website is plausible.
2. **Automated Security testing.** Perform the security testing by using Mozilla Observatory tools. The plan is to use contrasting tools to investigate the security level on the website.