**TEST PLAN**

**California Marketing**

<https://qasvus.wixsite.com/ca-marketing>

***The User’s Personal Account Address Menu functionality***

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1. **INTRODUCTION**

The Test Plan has been created to facilitate communication within the team members. This document describes approaches and methodologies that will apply to the User’s Personal Account Address Menu functional testing for an existing user’s account 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.

1. **SCOPE**

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

1. **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:

* GUI;
* Exploratory testing;
* Functional Positive testing:
* Functional Negative testing;
* Functional Ad-hoc testing.

**GUI Testing:**

GUI testing includes testing the UI part. It covers look and feel, error messages, spelling mistakes, GUI guideline violations.

**Exploratory Testing:**

Exploratory testing will includes 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.

**Functional AD-hoc testing:**

Includes an informal testing type with an aim to break the system.

**For Functional testing execute the next manual tests:**

* Positive for the following options:
* show all addresses and delete if are present;
* add a first new address with correct values;
* add a second new address with correct values and set up it as default;
* update second new address;
* delete second new address;
* Negative for the following options:
* add a new address with incorrect values;
* Ad-hoc for the following options:
* add a new address with informal values;

**Environment Support:**

- Laptop

- OS: Windows 10/ 64

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

**The following test cases are covers these manual tests:**

(There are tests results in the table)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC | Test Action | Expected Results | Browsers | Actual Results | Pass/ Fail |
| POSITIVE TESTS | | | | | |
| 1 | Show all saved addresses and delete if are present | All present addresses are showing and removable | Google Chrome | All present addresses are showing and removable | PASS |
| Firefox Mozilla | All present addresses are showing and removable | PASS |
| Microsoft Edge | All present addresses are showing and removable | PASS |
| 2 | First New address with correct values is entered. | First New address is added in the list | Google Chrome | First New address is added in the list | PASS |
| Firefox Mozilla | First New address is added in the list | PASS |
| Microsoft Edge | First New address is added in the list | PASS |
| 3 | Second New address with correct values is entered and set up as default | Second New address is added and set as default | Google Chrome | Second New address is added and set as default | PASS |
| Firefox Mozilla | Second New address is added and set as default | PASS |
| Microsoft Edge | Second New address is added and set as default | PASS |
| 4 | Update second new address. | Second New address is updated | Google Chrome | Second New address is updated | PASS |
| Firefox Mozilla | Second New address is updated | PASS |
| Microsoft Edge | Second New address is updated | PASS |
| 5 | Delete second new address | Second New address is deleted | Google Chrome | Second New address is deleted | PASS |
| Firefox Mozilla | Second New address is deleted | PASS |
| Microsoft Edge | Second New address is deleted | PASS |
| NEGATIVE TESTS | | | | | |
| 6 | Address with incorrect First Name is entered (numbers) | The message "Please enter first name" is appears. New address is not added in the list | Google Chrome | Address is added in the list | FAIL |
| Firefox Mozilla | Address is added in the list | FAIL |
| Microsoft Edge | Address is added in the list | FAIL |
| 7 | Address with incorrect First Name is entered (special characters) | The message "Please enter first name" is appears. New address is not added in the list | Google Chrome | Address is added in the list | FAIL |
| Firefox Mozilla | Address is added in the list | FAIL |
| Microsoft Edge | Address is added in the list | FAIL |
| 8 | Address with Incorrect First Name is entered (empty) | The message "Please enter first name" is appears. New address is not added in the list | Google Chrome | The message "Please enter first name" is appears. New address is not added in the list | PASS |
| Firefox Mozilla | The message "Please enter first name" is appears. New address is not added in the list | PASS |
| Microsoft Edge | The message "Please enter first name" is appears. New address is not added in the list | PASS |
| 9 | Address with informal First Name is entered (a lot of the same letter) | The message "Please enter first name" is appears. New address is not added in the list | Google Chrome | Address is added in the list | FAIL |
| Firefox Mozilla | Address is added in the list | FAIL |
| Microsoft Edge | Address is added in the list | FAIL |

**Testing Tools used:**

|  |  |
| --- | --- |
| **Process** | **Tools** |
| Test case creation | Microsoft Word, Microsoft Excel, JIRA |
| Test case tracking | Microsoft Word, Microsoft Excel, JIRA |
| Test case execution | Manual |
| Test case management | Microsoft Excel, JIRA |
| Test reporting | Microsoft Excel, JIRA |

**3.2. WEBSITE AUTOMATION TEST**

Automation tests are creates by using Selenium Python UnitTest frameworks on the basis of Functional manual test cases and executes to check functionality of User’s Personal Account Address Menu.

**Environment Support:**

- Laptop

- OS: Windows 10/ 64

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

**The following test cases are covers automation tests:**

(There are tests results in the table)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TC | Test Action | Expected Results | Browsers | Actual Results | Pass/ Fail |
| POSITIVE TESTS | | | | | |
| 1 | Show all saved addresses and delete if are present | All present addresses are showing and removable | Google Chrome | All present addresses are showing and removable | PASS |
| Firefox Mozilla | All present addresses are showing and removable | PASS |
| Microsoft Edge | All present addresses are showing and removable | PASS |
| 2 | First New address with correct values is entered. | First New address is added in the list | Google Chrome | First New address is added in the list | PASS |
| Firefox Mozilla | First New address is added in the list | PASS |
| Microsoft Edge | First New address is added in the list | PASS |
| 3 | Second New address with correct values is entered and set up as default | Second New address is added and set as default | Google Chrome | Second New address is added and set as default | PASS |
| Firefox Mozilla | Second New address is added and set as default | PASS |
| Microsoft Edge | Second New address is added and set as default | PASS |
| 4 | Update second new address. | Second New address is updated | Google Chrome | Second New address is updated | PASS |
| Firefox Mozilla | Second New address is updated | PASS |
| Microsoft Edge | Second New address is updated | PASS |
| 5 | Delete second new address | Second New address is deleted | Google Chrome | Second New address is deleted | PASS |
| Firefox Mozilla | Second New address is deleted | PASS |
| Microsoft Edge | Second New address is deleted | PASS |
| NEGATIVE TESTS | | | | | |
| 6 | Address with incorrect First Name is entered (numbers) | The message "Please enter first name" is appears. New address is not added in the list | Google Chrome | Address is added in the list | FAIL |
| Firefox Mozilla | Address is added in the list | FAIL |
| Microsoft Edge | Address is added in the list | FAIL |
| 7 | Address with incorrect First Name is entered (special characters) | The message "Please enter first name" is appears. New address is not added in the list | Google Chrome | Address is added in the list | FAIL |
| Firefox Mozilla | Address is added in the list | FAIL |
| Microsoft Edge | Address is added in the list | FAIL |
| 8 | Address with Incorrect First Name is entered (empty) | The message "Please enter first name" is appears. New address is not added in the list | Google Chrome | The message "Please enter first name" is appears. New address is not added in the list | PASS |
| Firefox Mozilla | The message "Please enter first name" is appears. New address is not added in the list | PASS |
| Microsoft Edge | The message "Please enter first name" is appears. New address is not added in the list | PASS |
| 9 | Address with informal First Name is entered (a lot of the same letter) | The message "Please enter first name" is appears. New address is not added in the list | Google Chrome | Address is added in the list | FAIL |
| Firefox Mozilla | Address is added in the list | FAIL |
| Microsoft Edge | Address is added in the list | FAIL |

**Testing Tools used:**

|  |  |
| --- | --- |
| **Process** | **Tools** |
| Test case creation | PyCharm, Selenium |
| Test case tracking | PyCharm, Browsers |
| Test case execution | Automation |
| Test case management | PyCharm |
| Test reporting | HTML reports, Allure reports |

**Additional automation tests execute**

**on the cloud platform “Browserstack”**

- OS: Windows 11

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

**Testing Tools used:**

|  |  |
| --- | --- |
| **Process** | **Tools** |
| Test case creation | PyCharm, Selenium |
| Test case tracking | Browserstack.com |
| Test case execution | Automation |
| Test case management | PyCharm |
| Test reporting | Video files (mp4) |

Test results are the same as on local device.

**3.3. WEBSITE API TEST**

API tests execute to determine whether the APIs that are developed meet expectations when it comes to functionality, performance, reliability and security for website.

**Environment Support:**

- Laptop

- OS: Windows 10/ 64

- Browsers (latest versions): Google Chrome (DevTools)

**The following test cases are covers API tests:**

(There are main tests results in the table)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TC | Request / Test Action | Expected Results | Actual Results | Pass/ Fail |
| **POSITIVE TESTS** | | | | |
| 1 | POST / New address with correct values is entered. | New address is added  Status code is 200 | New address is added  Status code is 200 | PASS |
| 2 | POST / Set up a new address as default | New address is set as default  Status code is 200 | New address is set as default  Status code is 200 | PASS |
| 3 | GET / Show all addresses | List of all addresses is showing  Status code is 200 | List of all addresses is showing  Status code is 200 | PASS |
| 4 | GET / Show default address | Default address is showing  Status code is 200 | Default address is showing  Status code is 200 | PASS |
| 5 | PATCH / Modify new address info cells. | New address is modify  Status code is 200 | New address is modify  Status code is 200 | PASS |
| 6 | GET / Show modify address | Modify address is showing  Status code is 200 | Modify address is showing  Status code is 200 | PASS |
| 7 | DEL / Delete new address | New address is deleted  Status code is 200 | New address is deleted  Status code is 200 | PASS |
| 8 | DEL / Delete new address 2nd time | New address has already been removed  Status code is 400 | New address has already been removed  Status code is 400 | PASS |
| 9 | GET / Check deleted new address | The deleted address is not in the list  Status code is 400 | The deleted address is not in the list  Status code is 400 | PASS |
| **NEGATIVE TESTS** | | | | |
| 10 | POST / Address with incorrect First Name is entered (numbers) | Address with Incorrect First Name is not added  Status code is 400 | Address with Incorrect First Name is added  Status code is 200 | FAIL |
| 11 | GET / Check entered address with incorrect First Name (numbers) | The address is not found  Status code is 404 | The address is in the list  Status code is 200 | FAIL |
| 12 | DEL / Delete entered address with incorrect First Name (numbers) | The address is not found  Status code is 404 | The address is deleted  Status code is 200 | FAIL |
| 13 | POST / Address with incorrect First Name is entered (special characters) | Address with Incorrect First Name is not added  Status code is 400 | Address with Incorrect First Name is added  Status code is 200 | FAIL |
| 14 | GET / Check entered address with incorrect First Name (special characters) | The address is not found  Status code is 404 | The address is in the list  Status code is 200 | FAIL |
| 15 | DEL / Delete entered address with incorrect First Name (special characters) | The address is not found  Status code is 404 | The address is deleted  Status code is 200 | FAIL |
| 16 | POST / Address with incorrect First Name is entered (empty) | Address with Incorrect First Name is not added  Status code is 400 | Address with Incorrect First Name is added  Status code is 200 | FAIL |
| 17 | GET / Check entered address with incorrect First Name (empty) | The address is not found  Status code is 404 | The address is in the list  Status code is 200 | FAIL |
| 18 | DEL / Delete entered address with incorrect First Name (empty) | The address is not found  Status code is 404 | The address is deleted  Status code is 200 | FAIL |
| 19 | POST / Address with informal First Name is entered (a lot of the same letters) | Address with informal First Name is not added  Status code is 400 | Address with informal First Name is added  Status code is 200 | FAIL |
| 20 | GET / Check entered address with informal First Name (a lot of the same letters) | The address is not found  Status code is 404 | The address is in the list  Status code is 200 | FAIL |
| 21 | DEL / Delete entered address with informal First Name (a lot of the same letters) | The address is not found  Status code is 404 | The address is deleted  Status code is 200 | FAIL |

**Testing Tools used:**

|  |  |
| --- | --- |
| **Process** | **Tools** |
| Test case creation | Postman, Chrome DevTools |
| Test case tracking | Postman |
| Test case execution | Automation |
| Test case management | Postman |
| Test reporting |  |

**3.4. WEBSITE AUTOMATION PPERFORMANCE TEST**

Performance automation tests execute for measures the speed, responsiveness and stability of the tested website. Tests execute in incognito environments.

After testing reports were generate.

**Testing Tools used:**

|  |  |
| --- | --- |
| **Process** | **Tools** |
| Test case creation | Google Lighthouse, GTMetrix, Webpagetest, BrowserStack-SpeedLab |
| Test case tracking | Google Lighthouse, GTMetrix, Webpagetest BrowserStack-SpeedLab |
| Test case execution | Automation |
| Test case management |  |
| Test reporting | txt -, html -, pdf - files |

**3.5. WEBSITE AUTOMATION SECURITY TEST**

Security automation tests execute to reveal potential flaws or weaknesses of software and website. Testing focuses on whether the application is designed and configured correctly.

Tests execute in incognito environments.

After testing reports were generate.

**Testing Tools used:**

|  |  |
| --- | --- |
| **Process** | **Tools** |
| Test case creation | Mozilla Observatory, Snyk |
| Test case tracking | Mozilla Observatory, Snyk |
| Test case execution | Automation |
| Test case management |  |
| Test reporting | txt -, html -, pdf - files |

1. **TESTS SCHEDULE AND ESTIMATED TIME**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sub-Task Name** | **Start** | **Est. time (hours)** | **Finish** |
| Manual Testing | 11.22.2021 | 1 |  |
| Automation Testing |  | 16 |  |
| API Testing |  | 20 |  |
| Performance testing |  | 4 |  |
| Security testing |  | 2 | 11.26.2021 |

**Test Execution**

QA - Vadim Trefilov

Test phase -

Status -

APPROVALS:

|  |  |  |
| --- | --- | --- |
|  | Project Manager | QA Lead |
|  |  |  |
| Signature |  |  |