**TEST PLAN**

**California Marketing**

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

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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 be applied to the website testing <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 Exploratory, Functional Positive, Negative testing of login, shop, support chat, blog and main menu modules, Performance and Security testing of the website.

1. **SUB-TASKS**

**3.1. WEBSITE MANUAL TEST**

Execute manual testing for login, shop, support chat, blog and main menu modules 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.

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

* Positive for the following options:
* Verify login with valid username and password;
* Buy product without login;
* Greet user requested customer support;
* Check Blog / Post images;
* Check Marketing Services Menu;
* Negative for the following options:
* Incomplete email on login;
* Buy huge quantity;
* Buy unselected color;

**Environment Support:**

- Laptop Lenovo Yoga C930

- OS: Windows 11 Home 21H2

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

**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 | Verify login with valid username and password. | Opened home page where "Log In" is replaced to "Hello viktoryi..." | Google Chrome | Opened home page where "Log In" is replaced to "Hello viktoryi..." | PASS |
| Firefox Mozilla | Opened home page where "Log In" is replaced to "Hello viktoryi..." | PASS |
| Microsoft Edge | Opened home page where "Log In" is replaced to "Hello viktoryi..." | PASS |
| Opera | Opened home page where "Log In" is replaced to "Hello viktoryi..." | PASS |
| 2 | Buy product without login. | 1. User get receipt on the page; 2. User get receipt by email; 3. Order is created in database. | Google Chrome | Occurred error message box "We can't accept online orders right now Please contact us to complete your purchase." | FAIL |
| Firefox Mozilla | Occurred error message box "We can't accept online orders right now Please contact us to complete your purchase." | FAIL |
| Microsoft Edge | Occurred error message box "We can't accept online orders right now Please contact us to complete your purchase." | FAIL |
| Opera | Occurred error message box "We can't accept online orders right now Please contact us to complete your purchase." | FAIL |
| 3 | Greet user requested customer support. | Welcome message occurred in the chat offering standard issues or contact agent. | Google Chrome | No welcome message even after users’ message | FAIL |
| Firefox Mozilla | No welcome message even after users’ message | FAIL |
| Microsoft Edge | No welcome message even after users’ message | FAIL |
| Opera | No welcome message even after users’ message | FAIL |
| 4 | Post images | Pictures match the text | Google Chrome | 1. Post "This is the very first announcement, see our **Cupertino** office team image below" has wrong image of **New York** city. 2. Unexpected post "How to cook perfect **Cesar Salad**!". | FAIL |
| Firefox Mozilla | 1. Post "This is the very first announcement, see our **Cupertino** office team image below" has wrong image of **New York** city. 2. Unexpected post "How to cook perfect **Cesar Salad**!". | FAIL |
| Microsoft Edge | 1. Post "This is the very first announcement, see our **Cupertino** office team image below" has wrong image of **New York** city. 2. Unexpected post "How to cook perfect **Cesar Salad**!". | FAIL |
| Opera | 1. Post "This is the very first announcement, see our **Cupertino** office team image below" has wrong image of **New York** city. 2. Unexpected post "How to cook perfect **Cesar Salad**!". | FAIL |
| 5 | Marketing Services | Opened Marketing Services page. | Google Chrome | Opened another page  [https://rg.ru/](%20https://rg.ru/) | FAIL |
| Firefox Mozilla | Opened another page  [https://rg.ru/](%20https://rg.ru/) | FAIL |
| Microsoft Edge | Opened another page  [https://rg.ru/](%20https://rg.ru/) | FAIL |
| Opera | Opened another page  [https://rg.ru/](%20https://rg.ru/) | FAIL |
| **NEGATIVE TESTS** | | | | | |
| 6 | Incomplete email. | Error message under email input "Double check your email and try again". | Google Chrome | Error message under email input "Double check your email and try again". | PASS |
| Firefox Mozilla | Error message under email input "Double check your email and try again". | PASS |
| Microsoft Edge | Error message under email input "Double check your email and try again". | PASS |
| Opera | Error message under email input "Double check your email and try again". | PASS |
| 7 | Buy huge quantity | Warning message "Only 99999 left in stock". | Google Chrome | Warning message "Only 99999 left in stock". | PASS |
| Firefox Mozilla | Warning message "Only 99999 left in stock". | PASS |
| Microsoft Edge | Warning message "Only 99999 left in stock". | PASS |
| Opera | Warning message "Only 99999 left in stock". | PASS |
| 8 | Buy unselected color | Warning message "Select Color'. | Google Chrome | Warning message "Select Color'. | PASS |
| Firefox Mozilla | Warning message "Select Color'. | PASS |
| Microsoft Edge | Warning message "Select Color'. | PASS |
| Opera | Warning message "Select Color'. | PASS |

**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 created by using Selenium Python Unit Test frameworks, which are executed to test the functionality of the CA-Marketing site.

**Environment Support:**

- Laptop Lenovo Yoga C930

- OS: Windows 11 Home 21H2

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

**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 |

**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 Lenovo Yoga C930

- OS: Windows 11 Home 21H2

- 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 specific address | Specific address is showing  Status code is 200 | Specific address is showing  Status code is 200 | PASS |
| 5 | PATCH / Update existing postal address | New address is updated  Status code is 200 | New address is updated  Status code is 200 | PASS |
| 6 | GET / Show specific updated address | Updated address is showing  Status code is 200 | Updated address is showing  Status code is 200 | PASS |
| 7 | DEL / Delete postal address | Postal address is deleted  Status code is 200 | Postal address is deleted  Status code is 200 | PASS |
| 8 | GET / Get Deleted specific address | Deleted specific address  Status code is 400 | Deleted specific address  Status code is 400 | PASS |
| 9 | DEL / Delete deleted postal address | Deleted postal address already been removed  Status code is 400 | Deleted postal address already been removed  Status code is 400 | PASS |

**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 | 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 | html -, pdf - files |

1. **TESTS SCHEDULE AND ESTIMATED TIME**

|  |  |  |  |
| --- | --- | --- | --- |
| **Sub-Task Name** | **Start** | **Est. time (hours)** | **Finish** |
| Manual Testing | 10.11.2022 | 3 |  |
| Automation Testing |  | 15 |  |
| API Testing |  | 25 |  |
| Performance testing |  | 2 |  |
| Security testing |  | 2 | 10.21.2022 |

**Test Execution**

QA - Viktoryia Kishchenko

Test phase -

Status -

APPROVALS:

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