**Test plan for testing of** [**www.illumin.com**](http://www.illumin.com)

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Table of Contents

[1. Intro 1](#_Toc62746816)

[2. Scope 1](#_Toc62746817)

[3. Quality Objective 2](#_Toc62746818)

[4. Roles, tasks and estimation 2](#_Toc62746819)

[5. Resource & Environment Needs 2](#_Toc62746820)

[6. Appendix I. Automated test cases 2](#_Toc62746821)

## 1. Intro

The Test Plan is designed to prescribe the scope, approach, resources, and schedule of all testing activities of the website [www.acuityads.com](http://www.acuityads.com) (redirection target for [www.illumin.com](http://www.illumin.com))

The plan identified the items to be tested, the features to be tested, the types of testing to be performed, the personnel responsible for testing, the resources and schedule required to complete testing, and the risks associated with the plan.

## 2. Scope

The features of the website to be tested

1. Every page
   1. The structure of the site is correct
   2. Pictures are visible
   3. The text does not contain mistakes and represented correctly
   4. The menus work correctly
   5. All the videos and other interactive elements work correctly
   6. All the links lead to the correct targets
2. Common elements
   1. Header menu AcuityAds presents on every page and works correctly
   2. Footer menu AcuityAds presents on every page and works correctly
   3. Envelop icon Olark is on every page. Functionality testing is out of the scope because this is a third-party element.
3. Performance of the hosting

Out of scope:

* Hardware
* Internal databases
* Communication interfaces
* Security

## 3. Quality Objective

The testing should be focused on information representation and usability for the customers.

## 4. Roles, tasks and estimation

|  |  |  |
| --- | --- | --- |
| Task | Member | Man\*hours |
| Install and set up the site | DevOps | 1 |
| Create test cases | QA Engineer | 40 |
| Perform manual tests | QA Engineer | 10 |
| Perform testing reports | QA Engineer | 10 |
| Develop a testing framework | Automation Engineer | 80 |
| Automate manual tests | Automation Engineer | 80 |
| Run automated tests | Automation Engineer | 1 |
| Automate and run performance tests | Automation Engineer | 15 |

## 5. Resource & Environment Needs

Server – Need an installed and set up website on a server.

Test tools – Develop test automation framework.

Network – Setup a LAN Gigabit

Computer – At least 2 computers run Windows 10, Ram 8GB, CPU 4GHZ

## 6. Appendix I. Automated test cases

Please read the ReadMe.md file at the root of the project <https://github.com/vlad-qa-auto/illumin>

|  |  |
| --- | --- |
| **Common Tests** | |
| **1** | **Verification of links** |
| Automation | com.ui.qa.CommonTests#linksVerification |
| Description | Verify all links on a web page.  Links to social networks could be skipped.  Can be applied to any page. |
| Steps | 1. Open target page 2. Find all links on a web page by tag <a> 3. Check if the link returns code 20x / 40x or has a redirection (30x) loop. |
| Expected | Every link returns a successful code (200/201/202 etc.) |
| Comment | On January, 22 Opt-out had a redirection loop link (<https://privacy.acuityads.com/opt-out.html>).  On January, 27 no issue. |
|  | |
| **2** | **Invisible text** |
| Automation | com.ui.qa.CommonTests#invisibleText |
| Description | Check if the page contains text with the same color and background color.  Can be applied to any page. |
| Steps | 1. Open target page 2. Find all the elements with text on a page 3. Compare text color and background of element or parent |
| Expected | Colors are different |
| Comment | Found invisibleelement on the home page <div class="block-wrapper">How it works</div> black on black. |
|  | |
| **3** | **Olark button in incognito mode** |
| Automation | com.ui.qa.CommonTests#olarkButton |
| Description | Test if the bug still presents. Olark button is a WordPress plugin for sending messages from site to site owners. Testing the functionality of a third-party product is out of the scope. Please do not use WordPress. |
| Steps | 1. Open any page of the domain in incognito mode 2. Check if the Olark button is visible |
| Expected | Olark button is visible |
| Comment | Olark button is invisible in incognito mode. |
|  | |
| **4** | **Validation of the links of the home page** |
| Automation | com.ui.qa.CommonTests#linksCheck |
| Description | Elements on the page should have correct links |
| Steps | 1. Open the home page 2. Check links for main elements (Contact Us, Schedule a Demo, etc.) |
| Expected | The links are correct. |
|  | |
| **Capabilities section of the home page** | |
| **5** | **Check elements with wide window (1300px)** |
| Automation | com.ui.qa.Capabilities#wideWindow |
| Description | A video player should be visible only for an activated capability item. Is better to start from the last item to the first. |
| Steps | 1. Open the home page with window width 1300px 2. Click to a capability item 3. Check if the only needed video player is visible 4. Repeat steps 2-3 for every item |
| Expected | A video player should be visible only for an activated capability item. |
|  | |
| **6** | **Check elements with mobile view narrow window (600px)** |
| Automation | com.ui.qa.Capabilities#narrowWindow |
| Description | A video player should be visible for every capability item. Play buttons should affect the video. |
| Steps | 1. Open the home page with window width 700px 2. Check if all the video players are visible 3. Check if the Play button can pause and play a video |
| Comment | On January, 22 only one video player was visible after resizing the window from 1300px to 700px.  On January, 27 no issue. |
|  |  |
| **Sticky menu with the Illumin logo on the home page** | |
| **7** | **Menu items behavior** |
| Automation | com.ui.qa.StickyMenu#wideWindow |
| Description | Items on the sticky menu should lead to the top of the correct part of the page. The menu has a different view for wide and narrow window size |
| Steps | 1. Open the home page with windows width 1300px 2. Click at every sticky menu item 3. Repeat for windows width 700px. Need to roll down the sticky menu from the hamburger |
| Comment | Menu item ‘Powered by Acuity’ leads to the bottom of section ‘Powered by..’ but not to the top. |
|  | |
| **8** | **Menu items behavior during scrolling** |
| Automation | com.ui.qa.StickyMenu#scrollDown |
| Description | The sticky menu should be stick at the top of the page during scrolling. |
| Steps | 1. Open the home page with windows width 1300px 2. Scroll down to the bottom of the page 3. Check if the menu is stick at the top 4. Repeat for window width 700px |
| Comment | The menu is missing on scrolling after resizing the window from 1300px to 700px (com.ui.qa.StickyMenu#stickyAfterResize). |
|  | |
| **9** | **Menu hamburger rolling down at 900px window width** |
| Automation | com.ui.qa.StickyMenu#rollDown900 |
| Description | Menu hamburger doesn't roll down at 900px window width |
| Steps | 1. Open the home page with windows width 900px 2. Scroll down to the sticky menu 3. Click at the hamburger menu on the right side of the sticky menu |
| Comment | Menu hamburger doesn't roll down at 900px window width. |
|  |  |
| **Join our mailing list** | |
| **10** | **Valid email** |
| Automation | com.ui.qa.SubscribeEmailField#validEmail |
| Description | Subscription should work for valid emails. Subscription element presents on every page of the domain. |
| Steps | 1. Remove testing email from database of subscribers – NO ACCESS 2. Open any page of the domain. (use <https://www.acuityads.com/aoda/> as the lightest page on the web site) 3. Put valid email in the text box 4. Click at the Subscribe button 5. Check if the button and textbox are gone and a confirmation message appeared 6. Check the email is in the database of subscribers – NO ACCESS 7. Refresh the page and repeat for the next valid email |
| Comment | Valid email [email@123.123.123.123](mailto:email@123.123.123.123) is defined as invalid.  Examples of valid emails:  email@example.com firstname.lastname@example.com email@subdomain.example.com firstname+lastname@example.com email@[123.123.123.123] \"email\"@example.com 1234567890@example.com email@example-one.com \_\_\_\_\_\_\_@example.com email@example.name email@example.museum email@example.co.jp [firstname-lastname@example.com](mailto:firstname-lastname@example.com) |
|  | |
| **11** | **Invalid email** |
| Automation | com.ui.qa.SubscribeEmailField#invalidEmail |
| Description | Subscription should not work for invalid emails. Subscription element presents on every page of the domain. |
| Steps | 1. Remove testing email from database of subscribers – NO ACCESS 2. Open any page of the domain. (use <https://www.acuityads.com/aoda/> as the lightest page on the web site) 3. Put invalid email in the text box 4. Click at the Subscribe button 5. Check if the button and textbox are not gone and a confirmation message does not appear 6. Check if the text box got a red border 7. Check the email is not in the database of subscribers – NO ACCESS 8. Refresh the page and repeat for the next invalid email |
| Comment | Invalid email [email@-example.com](mailto:email@-example.com) is defined as valid.  Examples of invalid emails:  plainaddress #@%^%#$@#$@#.com @example.com Joe Smith <email@example.com> email.example.com email@example@example.com .email@example.com email.@example.com email..email@example.com email@example.com (Joe Smith) email@example email@example..com Abc..123@example.com |
|  | |
| **Performance test** | |
| Automation | JMeter - Illumin.jmx -> Load |
| Description | The web site should have an acceptable response time for at least 5 customers at the same time who want to browse it and switch from page to page.  Used external plugins: Ultimate Thread Group, 5 Additional Graphs |
| Result | Almost without errors. Most of the responses are less than 1 sec. Maximum 2 seconds for the response |
|  | |
| **Stress test** | |
| Automation | JMeter - Illumin.jmx -> Stress |
| Description | The web site should serve a lot of customers (test uses 50 threads) at the same time who want to browse it and switch from page to page.  Used external plugins: Ultimate Thread Group, 5 Additional Graphs |
| Result | Most of the responses (93%) have code 429: Too Many Requests  Maximum response time: 10 sec  Not a good result for 50 users |