

Somatic Web Test Plan

Introduction

The product we will be testing is a website created to display basic information about somatic engagement as well as research documents and other content provided by the client. The product also has separate pages for user submitted Ideas and Research. Functionality on both of these pages will need to be tested because they interact with the two separate data stores within the website. We do not have a database, but there is a php file that takes in end user input, logs this input, and uses it to mail the end user a link to research papers. There is also a JavaScript file that uses values stored in a .csv file to create divs and fill them with content on the Idea Forum page. Finally, our product will have several interactive elements that will need to be tested across different browsers and devices to check for consistency. Because our website is meant for a wide range of users, it would also be good to test for usability by creating a variety of tasks and asking different individuals who have not seen the site to attempt to navigate it and complete the task.

Strategy

We have assigned Matthew to be in charge of the testing process. While he will make sure that everyone stays on task, we plan to divide up the task of going through the test plan and checking each action and expected result by browser. Each group member will be responsible for testing the product on the most current version of the Mozilla Firefox, Internet Explorer, Google Chrome, and Safari browsers. Quality of non-source code documents has been assigned to Katie R., and Schwa has been assigned source code clarity and comment quality.

Our tests will focus on two main categories. Using a functional testing approach, we will test each individual unit of the website for functionality to compare it with the expected result. This will make sure that all of the embedded interactivity as well as any areas where user input can occur function correctly. Final and official functionality testing will occur once all the pieces of the website are in place, however, throughout the process of creating the website, we have been testing it on at least two different browsers and comparing results to make sure everything is functioning the same on different browsers. Now that the website is live and has a close to finished architecture and design, we also plan to do Hallway tests to determine usability. Individuals unfamiliar with the product will be asked to completed the Use Cases we have determined. These tests will be used to find where in the website design there is confusing content and if the steps to access different sections of the website are unclear to first time users. Changes in text size, placement, font or additional affordances will be added to accommodate for any problems.

Any bugs found during testing will be listed on a Google Doc spreadsheet shared by the team, and each bug will be labeled with High, Medium, or Low priority based on how important the team believes resolving the issue is to the products overall quality and completeness. We will work through the bugs from high to low priority, assigning each bug to an individual on the team with sufficient knowledge to fix the bug. Each bug will also have a column for the progress of its resolution with status options of Not Started, In Progress, or Complete to indicate if the bug has been addressed.

Adequacy Criterion

Our first adequacy criterion is that we will have a test exist for every single action, functionality, and feature that should occur in the website. It is very important that our website reflect somatic engagement, therefore, we have chosen to test that all of the interactions we embedded are working. We also want the requirements outlined by the client to have a way to submit questions and ideas, download research papers, and view ideas on the idea forum to be working on all browsers, as these three tasks are key to her vision for the website. Therefore, by testing everything, we know that we have tested sufficiently in terms of functionality. Our second adequacy criterion is that three hallway test will be completed for each Use case. These hallway tests will check usability of the website and give our team a solid confirmation of the usability of the website or point out weaknesses that need to be addressed before the team can feel confident in meeting our goal of high usability. Although it would be nice to have even more hallway test repetitions, with at least three separate individuals stepping through all the use cases for the first time, we feel confident that at the very least this will uncover large misunderstandings and usability problems. Our goal with these two tests would be to reach 100% functionality as well as 100% pass rate for hallway tests. However, to turn over our product, our minimum adequacy criterion are that the initial requirements outlined by the client are all functional and accessible. We want to pass her a working website, hosted on a server that contains an overview of Somatic Engagement displayed with graphics and interactions that enforce this idea. We want to have a working and updateable Idea Forum, a location to submit ideas and questions, and a place to download research. High priority bugs will affect one of these deliverables, and we will attempt to solve all of these bugs. Medium and low priority bugs may not be resolved and may need to be pushed to Sprint 4.

| Test # | Object | Action | Expected Result | Mozilla Firefox Version 33.1 Result | Internet Explorer Version 11 Result | Google Chrome Version 39 Result | Safari Version 8 Result | Notes | Priority |
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| 1 | Landing Page | | | | | | | | |
|-----|----------------|--|---|------|------|------|------|--|--------|
| 1.1 | Layout. | None. | Page is formatted properly. | Pass | Pass | Pass | Pass | Chrome - At 100% resolution, user must scroll up/down to see the ground of the website. ← this has to do with your browser settings and the size of your window/screen resolution | Low |
| 1.2 | SOMA Logo. | Hover over the letter "O" | "O" should make one rotation | Pass | Pass | Pass | Fail | Safari - The O rotates but much more slowly and a shorter distance. | Medium |
| 1.3 | Flower. | Mouseover flower. | Each flower should move towards the top of the page about 30px on mouseover | Pass | Pass | Pass | Pass | | |
| 1.4 | Flower | Mouseout flower. | The flower should return to its original position. | Pass | Pass | Pass | Pass | | |
| 1.5 | Navigation Bar | Select one of the links on the Navigation bar. | The landing page will move left or right until it reaches the section of the landing page associated with the selected link on the Navigation bar. | Fail | Pass | Pass | Pass | FireFox - Colored circles are seen, but no actions on hover or on click. | Medium |
| 1.6 | Clouds | None. | Clouds without text in them should move left at different speeds across the screen, losing opacity until they reach an opacity of 0. - <i>At this time,</i> | Pass | Pass | Pass | Pass | | |

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| | | | <i>the original position and opacity will be reset and the cloud should begin this loop again.</i> | | | | | | |
| 1.7 | Trees. | Mouse over trees. | On mouseover, five of the different trees should play sounds of either a whooshing wind sound or the sound of birds chirping. | Pass | Pass | Pass | Pass | | |
| 1.8 | Sun. | None. | The sun should have one fixed back piece and two rotating images of sun rays should be moving in front of this fixed piece in opposite directions. | Fail | Fail | Fail | Fail | All - The sun spins, but the center anchor points are off causing some images to rotate in non-circular arcs | Medium |
| 1.9 | Text bubble above tricycle. | None. | On page load, the text bubble beside the tricycle should alternate between an image of a keyboard with the left/right arrows being highlighted in orange and text that reads "Use the arrow keys to steer the trike." | Pass | Pass | Pass | Pass | | |
| 1.10 | Text bubble above tricycle. | Scroll right on the landing page. | As the user scrolls to the right on the landing page, the text bubble above the tricycle disappears after a short distance. | Pass | Fail | Pass | Pass | Explorer - The text bubble doesn't disappear. | Medium |

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| 1.11 | Children jumping rope. | None. | The children should jump rope at all times. | Pass | Pass | Pass | Pass | | |
| 1.12 | Tricycle. | Move arrow keys left or right. | The tricycle should remain fixed on the ground and the same distance from the left side of the screen as the user moves left and right through the landing page. The tricycle will also switch directions to face the left or right side of the screen based on the direction the user is scrolling in the page. | Pass | Pass | Pass | Pass | | |
| 1.13 | Link to Idea Forum. | Click on Link. | When the user clicks on the link, a new tab should be created that displays the page for the Idea Forum. | Pass | Pass | Pass | Pass | | |
| 1.14 | Link to Research. | Click on Link. | When the user clicks on the link, a new tab should be created that displays the page for the selected research topic. | Pass | Pass | Pass | Pass | | |

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| 1.15 | Raincloud and arrows. | None. | Arrows coming out of cloud should be moving up and down. | Pass | Pass | Pass | Pass | | |
| 1.16 | Flag links. | Click on a flag. | Clicking on each flag: - Yellow Flag: sends user to <i>Download Research Paper</i> page. - "R" Flag: sends user to Research page. - Letter Flag: sends user to <i>Idea Forum</i> page to contact the client. | Fail | Fail | Fail | Fail | All Browsers - this functionality is not yet implemented | Medium |
| 2 | Idea Forum | | | | | | | | |
| 2.1 | Layout. | None. | Page is formatted properly. | Pass | Pass | Pass | Pass | | |
| 2.2 | Current Posts section. | Scroll. | Scrolls up and scrolls down. | Pass | Pass | Pass | Pass | | |

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| 2.3 | Current Posts section. | None. | Content matches the current content in the <i>testForumSubmissions.csv</i> file. | Pass | Pass | Pass | Pass | | |
| 2.4 | Google Form. | Click <i>Submit</i> button with all of the required information filled out. | If the user has filled out all of the required information, when he clicks the Submit button on the Google Form, the form will display a confirmation of submission and then it will refresh to display the form again. | Pass | Pass | Pass | Pass | User can submit without completing fields, also does not refresh the page. | Fixed |
| 2.5 | Google Form. | Click <i>Submit</i> button missing some or all of the required information. filled out. | If the user has not filled out all of the required information, when he clicks the Submit button, the form display a message asking him to fill out the missing information. | Pass | Pass | Pass | Pass | FireFox & Explorer - Google form allows user to submit blank or incomplete fields. | Fixed |
| 3 | Research Page | | | | | | | | |
| 3.1 | Layout. | None. | The page should be formatted properly. | Pass | Pass | Pass | Pass | | |

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| 3.2 | Links. | Click on link to learn more about Oral, Written, or Digital research. | A page with a more detailed discussion of research done in this medium will open. | Pass | Pass | Pass | Pass | | |
| 4 | Detailed Research Page for Oral, Written, or Digital | | | | | | | | |
| 4.1 | Layout. | None. | The page is formatted properly. | Fail | Fail | Fail | Fail | <p>Explorer - The detailed research pages are missing some graphics and the links at the top of the page to send users to the research download page.</p> <p>Firefox - No dinosaur, also missing some graphic elements.</p> <p>Chrome - Scale of background is incorrect and should better deal with scaling.</p> <p>Safari - Scaling issues, missing links to download page</p> | Medium |

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|----------|---------------------------------------|--|--|------|------|------|------|--------------------------------------|------|
| 4.2 | Link to Download Research Paper Page. | Click link. | Clicking the link opens the <i>Download Research Paper</i> page where users can select a research paper to download. | Pass | Pass | Pass | Pass | | |
| 5 | Download Research Paper Page | | | | | | | | |
| 5.1 | Layout. | None. | The page should be formatted properly. There should be a form with three required fields. | Pass | Pass | Pass | Pass | | |
| 5.2 | Download Form. | Click on field besides "Name" label. | Cursor should be blinking in field and user should be able to type in the field. | Pass | Pass | Pass | Pass | | |
| 5.3 | Download Form. | Click on field besides "E-mail" label. | Cursor should be blinking in field and user should be able to type in the field. | Pass | Pass | Pass | Pass | | |
| 5.4 | Download Form. | Click on radio button beside title of research paper to be downloaded. | Radio button should fill in if blank and clear if it was filled in. | Pass | Pass | Pass | Fail | Safari - cannot be unselected | High |

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|-----|----------------|--|--|------|------|------|------|--|------|
| 5.5 | Download Form. | Click on <i>Submit</i> button when all required fields are filled out correctly. | Fields will go blank. Content in the fields will be written to the people.txt file to track who downloads the paper, and an email with a link to the selected paper will be sent to the submitted email. | Fail | Fail | Fail | Fail | All Browsers - Php still being worked on to complete this task. | High |
| 5.6 | Download Form. | Hit Submit when one or more required fields are blank. | All fields will go blank and any field that was missing content will have the text “* <missing field> is required” in red next to the field where <missing field> is replaced by the name of the required field. | Pass | Pass | Pass | Pass | | |
| 5.7 | Download Form. | Hit Submit with one or more required fields with a non-valid entry. | All the fields will go blank. The Name field will display the text “* Only letters and white space allowed” and the E-mail field will display “* Invalid email format” if a @ and .com symbol are missing. | Pass | Pass | Pass | Pass | * Should possibly add a text box that notifies the user with feedback. | Low |

Hallway Test Comments and Results:

| Hallway Test # | Use Case 1 | Use Case 2 | Use Case 3 | Use Case 4 | Use Case 5 | Use Case 6 | Notes | Priority |
|----------------|------------|--------------------|------------|------------|------------|--------------|-------|------------------|
| 1 | P | P - Took user some | P | P | P | F - Download | | Use Case 6- High |

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| | | time to find Idea Forum | | | | still not working | | Use Case 2 - Medium |
| 2 | P | P-Took user some time to figure out where to go. | P | F- User was in Firefox, and Navigation bar does not work in this browser. | P- Hard to see "research" title in clouds, but found "To learn more..." link pretty quickly. | F - Download still not working, but User could find where the download page was. | I think it would be good to make the text on the navigation bar stay there always and not just on hover. | Use Case 6- High Use Case 5 - Medium Use Case 4 - Medium Use Case 2 - Medium |
| 3 | P | P - User Took some time to find Question Form on Idea Forum | P | P | P | F- Download still not working. Also, user was confused because no link to download was readily apparent. | Might be a good idea to have a Question Form on the landing page as well. | Use Case 6 - High Use Case 2 - Medium |