Nicholas Hartnett

COSC-412

Professor Broadwater

**System Test Procedure**

|  |
| --- |
| Table of Contents: |
| End-to-End Test Procedure……………….………………….…………………...…...02 |
| End-to-End System Tests………….…………………….…………………………...03-7 |
|  |

**End-to-End System Test Procedure:**

The End-to-End System Test Procedure I will be conducting on my project follows a five-point checklist to ensure the identification of all system dependencies and to guarantee that data integrity is withheld between all system components. My End-to-End testing procedure is centered around the fact that I am making an application utilizing WordPress. Because I am using WordPress, tests will be conducted on the functionalities of plugins and whether they function, return the correct information, and if they abide by the requirements documents. The five-point checklist is as follows:

**1 - Analyze Requirements:**

* Prior to employing the tests, I will return to the requirements documentation to ensure that I have implemented all necessary functionalities and features.
* After assessing the completeness of our functionalities, I will break down the functionalities in terms of their base necessities
* The base necessities are the key components that the various plugins must return or display in order to operate as intended.

**2 - Create Test Environment:**

* Once the key components are analyzed and specified, we will create a test environment whereby we employ a plugin as a standalone along with any other plugins it may depend on to display or function.
* The test environment is key to isolating plugins so that I can test and ensure that each individual plugin added into the WordPress is functioning as intended and in alignment with all the requirements.

**3 - Software and Hardware Requirements:**

* In this phase the following questions must be answered:
* What software is necessary for this plugin to operate properly?
* What hardware is necessary for this plugin to operate properly?

**4 - System Response List:**

* In this phase we must compile a list of all scenarios that any user may engage with the plugin and record all variations of how the system should respond to the specified interaction.

**5 - Test Case Data Storage and History:**

* Results will be saved and described as to eliminate the possibility of redundant testing.
* In the event a plugin is not operating properly a re-test will be conducted and the procedure is restarted.

**End-to-End System Tests:**

**Test #1: Slideshow Plugin**

**Requirement(s) Being Tested:**

* The unauthenticated user shall be able to perform an on-site slideshow using mouse or key event handling.
* Pictures uploaded as .JPEG or .IMG to slideshow.
* The system shall provide slideshow of Artists high-profile art commissions.
* On site alterations to change and update slideshow must be present
* Each image in slideshow must have a description.
* An interactive page where potential clients can see previous graphic designs along with a page that lists high-profile clients that he has worked with.

|  |  |
| --- | --- |
| Phase Number and Question: | Answer and Diagnostics: |
| 1. Does the plugin meet all requirements? | Yes, the plugin meets all the requirements. |
| 1. Was a test environment created and did it replicate the live site accurately? | A test environment was created, and it did in fact properly replicate the live site. |
| 1. What software is necessary for this plugin to operate properly?   What hardware is necessary for this plugin to operate properly? | The software required was WordPress and the installation of the specific plugin itself. No hardware other than a personal laptop were utilized in the implementation of the. |
| 1. What are the expected responses?   What were the actual system responses? | The expected responses are:  When the slideshow event handling is activated a proceeding picture is shown, the action is also expected to be reversable. It is also expected that when an authenticated user updates the slideshow with a new image a new image will appear in the slideshow. The same interaction should happen if an image is removed. A Visual description of the depicted image must also be present when the image is displayed.  The actual responses were identical to those of the expected |
| 1. What are the results? Does the is the Plugin proficient? | The results conclude that the system responses in the test environment are as expected and thus the plugin is in fact proficient. |

**Test #2: Customer Review Plugin**

**Requirement(s) Being Tested:**

* Customer review page must be present
* Customer Reviews may be submitted with no account, but must be removable by admin

|  |  |
| --- | --- |
| Phase Number and Question: | Answer and Diagnostics: |
| 1. Does the plugin meet all requirements? | Yes, the plugin meets all the requirements. |
| 1. Was a test environment created and did it replicate the live site accurately? | A test environment was created, and it did in fact properly replicate the live site. |
| 1. What software is necessary for this plugin to operate properly?   What hardware is necessary for this plugin to operate properly? | The software required was WordPress and the installation of the specific plugin itself. No hardware other than a personal laptop were utilized in the implementation of the. |
| 1. What are the expected responses?   What were the actual system responses? | The expected responses are:  The customer review page is accessible to an unauthenticated user and is visible when on the customer review page. It is also expected that the customer reviews are removable by admin in cases of profanity or slurs.  The actual responses were identical to those of the expected |
| 1. What are the results? Does the is the Plugin proficient? | The results conclude that the system responses in the test environment are as expected and thus the plugin is in fact proficient. |

**Test #3: Social Media Plugin**

**Requirement(s) Being Tested:**

* A page dedicated to contact information, addressing, and other personal information a potential customer may need

|  |  |
| --- | --- |
| Phase Number and Question: | Answer and Diagnostics: |
| 1. Does the plugin meet all requirements? | Yes, the plugin meets all the requirements. |
| 1. Was a test environment created and did it replicate the live site accurately? | A test environment was created, and it did in fact properly replicate the live site. |
| 1. What software is necessary for this plugin to operate properly?   What hardware is necessary for this plugin to operate properly? | The software required was WordPress and the installation of the specific plugin itself. No hardware other than a personal laptop were utilized in the implementation of the. |
| 1. What are the expected responses?   What were the actual system responses? | The expected responses are:  It is expected that visible feed from social media platforms as well as the links and contact information are all visible while on the contact page.  The actual responses were identical to those of the expected |
| 1. What are the results? Does the is the Plugin proficient? | The results conclude that the system responses in the test environment are as expected and thus the Plugin is in fact proficient. |

**Test #4: Pricing Display Plugin**

**Requirement(s) Being Tested:**

* Every pricing detail on pricing page shall be read from the DB.
* On site alterations to change pricing details must be present.
* Authentication and authorization process for adjusting pricing: storage of username and password for this will be in DB.
* A pricing page so that potential clients can view various options and generalized prices for common commissions.

|  |  |
| --- | --- |
| Phase Number and Question: | Answer and Diagnostics: |
| 1. Does the plugin meet all requirements? | Yes, the plugin meets all the requirements. |
| 1. Was a test environment created and did it replicate the live site accurately? | A test environment was created, and it did in fact properly replicate the live site. |
| 1. What software is necessary for this plugin to operate properly?   What hardware is necessary for this plugin to operate properly? | The software required was WordPress and the installation of the specific plugin itself. No hardware other than a personal laptop were utilized in the implementation of the. |
| 1. What are the expected responses?   What were the actual system responses? | The expected responses are:  There will be a pricing page visible when on the product pricing page. The information regarding the prices and packages are displayed in ascending order by price. The prices are manipulatable by authenticated user.  The actual responses were identical to those of the expected |
| 1. What are the results? Does the is the Plugin proficient? | The results conclude that the system responses in the test environment are as expected and thus the Plugin is in fact proficient. |

**Test #5: All Non-Plugin Requirements**

**Requirement(s) Being Tested:**

* About me page must be editable.
* Navigation from homepage to proceeding pricing-page, contact information-page, and previous works page must be intuitive.
* The system shall not disclose any sensitive, personal information about previous or potential clients.
* Backend storage database for pricing information and graphic designs/high-profile client list.
* unauthenticated users (potential customers for client) must not have access to any alteration features.
* a clean and simple website with unambiguous GUI.

|  |  |
| --- | --- |
| Phase Number and Question: | Answer and Diagnostics: |
| 1. Are all the listed requirements met? | Yes, all the listed requirements are met. |
| 1. Was a test environment created and did it replicate the live site accurately? | A test environment for each of the various requirements were assembled without the usage of a plugin, only the WordPress site and its software editing features. |
| 1. What software is necessary for this plugin to operate properly?   What hardware is necessary for this plugin to operate properly? | The only software required was WordPress itself. No hardware other than a personal laptop were utilized in the implementation of the. |
| 1. What are the expected results? | The expected results of the WordPress editing are as follows:  The about me page must be editable. Navigation from homepage to proceeding pricing-page, contact information-page, and previous works page must be intuitive. The system shall not disclose any sensitive, personal information about previous or potential clients. The backend storage database for pricing information and graphic designs/high-profile client list. Unauthenticated users are unable to any alteration features. The expectations also demand that the GUI is clean, simple, and unambiguous. |
| 1. What are the results? Are the results proficient? | The results show that the requirements were met in all notable forms and details. |