**Software Validation Test Procedure**

Developed for CSCI3428 Software Engineering

@ SMU

Developer listing:

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ANNEX: SRS.pdf (used as ref for SRS requirements)

**Introduction:** Mi’kmaq are indigenous people who are among the original inhabitants in the Atlantic Provinces of Canada. However, the Mi’kmaq language is on the verge of extinction. Hence, to keep the language alive and to teach Mi’kmaq language to as many children as possible, this software has been developed. The language will be taught in an interactive way. There will be story told though choices of different levels which will ultimately sum up to the whole story at the end. In this way, users will be able to learn as many words as possible and be immersed in the proper enunciation of the language.

**Section 1: Specific Requirements:**

Software must be tailored to be an educational resource that promotes learning of Mi’kmaw language. Although elements of the English language are permitted, the focus should be learning Mi’kmaw language and promoting the culture. Final components of the software are to reside on SMU servers with access provided to the client.

**Section 2: Snapshot Software Validation Test Procedure:**

As per CSCI3428 direction, I will be providing at least five software validation test procedures that show an understanding of the greater SVTP procedure during software validation process. I will be selecting six SRS requirements and completing the SVTP for each of them.

**Project website ref A**: http://ugdev.cs.smu.ca/~j\_boyd/public\_html/

**Section 2.1: Ref SRS [F41A] End page will consist of a main pane with a footer displayed below. Main pane will be displayed as a table and contain a left pane and right pane as table columns. Footer will display below left and right pane as per [figure 2.5] (alpha functional requirements below should reference [figure 2.5]).**

Picture of story end-page [Figure 2.5]

Graphical user interface

Description automatically generated

**Section 2.1.1: SVTP for [F41A]**

Test #1:

Purpose: To test requirement [F41A], the initial state of the end page.

Tools: Internet connection, latest Chrome browser, Project website ref A.

Setup: The end page has been loaded, and nothing else.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step # | Method | Expected Result | Actual  Result | Pass/Fail | Comments |
| 1 | Refresh the page | End page should reload | Page reverts to 1st page | Fail | JS modifications must take into account page reload in order to properly reload the page |
| 2 | Load last page from previous page | End page should load properly | End page loads as intended | Pass | End page currently accessible if not reloading within the story pages. Step 1 still requires rectification. |

**Section 2.2: Ref SRS [F41B] Background color of end page, including main pane, left and right pane as well as footer will be set to Light-Yellow**

**Section 2.2.1: SVTP for [F41B]**

Test #2:

Purpose: To test requirement [F41B], the initial state of the end page background color.

Tools: Internet connection, latest Chrome browser, Project website ref A.

Setup: The end page has been loaded, and nothing else.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step # | Method | Expected Result | Actual  Result | Pass/Fail | Comments |
| 1 | Refresh the page | End page should reload | Page reverts to 1st page | Fail | Ref Test#1 |
| 2 | Load last page from previous page | End page should load properly | End page loads as intended | Pass | Background color displaying as intended. |

**Section 2.3: Ref SRS [F41C] End page main pane will have 20px padding and margins**

**Section 2.3.1: SVTP for [F41C]**

Test #3:

Purpose: To test requirement [F41C], the initial state of the end page concerning padding and margins.

Tools: Internet connection, latest Chrome browser, Project website ref A.

Setup: The end page has been loaded, and nothing else.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step # | Method | Expected Result | Actual  Result | Pass/Fail | Comments |
| 1 | Refresh the page | End page should reload | Page reverts to 1st page | Fail | Ref Test#1 |
| 2 | Load last page from previous page | End page should load properly | End page loads as intended | Pass | Main pane displays as intended with proper padding and margins. |

**Section 2.4: Ref SRS [F41D] End page main pane will display as a table**

**Section 2.4.1: SVTP for [F41D]**

Test #4:

Purpose: To test requirement [F41D], the initial state of the end page concerning display of main pane as a table

Tools: Internet connection, latest Chrome browser, Project website ref A.

Setup: The end page has been loaded, and nothing else.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step # | Method | Expected Result | Actual  Result | Pass/Fail | Comments |
| 1 | Refresh the page | End page should reload | Page reverts to 1st page | Fail | Ref Test#1 |
| 2 | Load last page from previous page | End page should load properly | End page loads as intended | Pass | Main pane displays as intended as a table. |

**Section 2.5: Ref SRS [F41E] End page main pane will align text to display centered**

**Section 2.5.1: SVTP for [F41E]**

Test #5:

Purpose: To test requirement [F41E], the initial state of the end page concerning display of main pane with text center aligned

Tools: Internet connection, latest Chrome browser, Project website ref A.

Setup: The end page has been loaded, and nothing else.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Step # | Method | Expected Result | Actual  Result | Pass/Fail | Comments |
| 1 | Refresh the page | End page should reload | Page reverts to 1st page | Fail | Ref Test#1 |
| 2 | Load last page from previous page | End page should load properly | End page loads as intended | Pass | Main pane text displays centered as intended. |

**Section 3: Final Comments**

Test procedures follow a sequential route inline with SRS document. Each test should consider all ways to display the item/modify as a user would intentionally or unintentionally access it with each successive step documented and verified. Examples used in this document were visual requirements. Items such as button push/action would require more steps, intended operation and visual examples of what happened at each step for reference. Base state on initialization, change state of button/webpage and result state from button push would be an example of what you might see.

This concludes the snapshot of the SVTP procedure.