Nirvana Vella – Website Development Task 3

IPO Chart

- IPO stands for Input, Processing and Output

Input	Processing	Output
Portfolio website URL	Load the site across browsers/devices	Confirmation of accessibility and responsive design
List of projects/content	Verify content displays correctly (text, images, videos, etc.)	Report on content accuracy and visual presentation
Navigation structure	Test all internal/external links, menus, and navigation elements	Working navigation; broken link report
Contact form test data	Submit test entries via the contact form	Successful form submissions or error handling
Social media/profile links	Test redirection to social accounts	Functional external links report
Device/browser list	Run responsive and compatibility tests	Report on layout/function across environments
Accessibility guidelines	Evaluate alt tags, color contrast, keyboard access, screen reader support	Accessibility compliance report
Portfolio user feedback	Conduct usability testing	Recommendations to improve user experience

Test Cases

Test Case	Input	Expected Output	Actual Result	Status
1	Valid name, email, and message	Form submits successfully	Form submits successfully	Passed
2	Missing name field	Error: Name is required	Alert shows "Insert all inputs"	Passed
3	Invalid email format	Error: Enter a valid email address	Alert shows "Insert all inputs"	Passed

4	Empty message field	Error: Message is required	Alert shows "Insert all inputs"	Passed
5	Valid phone number format	Form accepts phone number	It does accept phone number	Passed
6	Incorrect phone number format	Error: Invalid phone number format	Did not check for validation of phone number format	Failed
7	Form reset button clicked	All fields are cleared	Fields are cleared	Passed
8	Service dropdown not selected	Error: Please select a service	It picks the first service available	Failed
9	Special characters in message	Form accepts message	Form accepts message	Passed
10	All fields filled correctly	Form submits successfully	Form submits successfully	Passed

Code Validation

Online Validators Used:

- HTML: https://validator.w3.org/
- CSS: https://jigsaw.w3.org/css-validator/
- JavaScript: https://jshint.com/

1. Step 1: Validation of HTML files

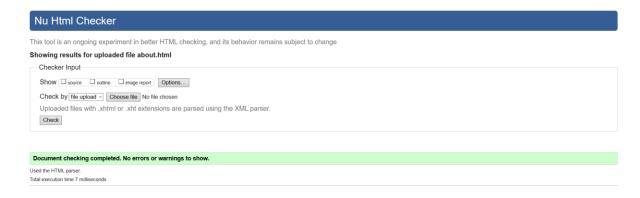I input all my HTML files into the validator online tool. Most of which had no errors, but any errors/warnings found were fixed.

HOME.HTML

ABOUT.HTML
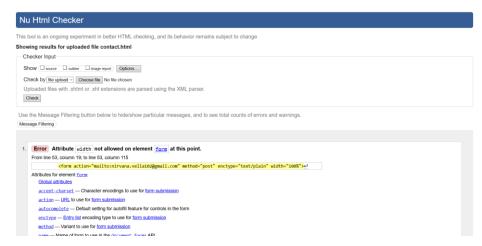

CONTACT.HTML

The first error, which was the width attribute within the form tag was removed and solved the issues without concerns. The second error involving the legend was not handled due to lack of time and not wanting to ruin the code.

2. **Error** Element `legend` not allowed as child of element `div` in this context. (Suppressing further errors from this subtree.)

From line 56, column 25; to line 56, column 135

`<legend style="width: 250px; background-color: #d81e58; border-radius: 30px; text-align: center; margin: 5px;">Person`

Contexts in which element `legend` may be used:
  As the first child of a `fieldset` element.
Content model for element `div`:
  If the element is a child of a `dl` element: one or more `dt` elements followed by one or more `dd` elements, optionally intermixed with script-supporting elements.
  If the element is not a child of a `dl` element: flow content.

3. **Warning** Section lacks heading. Consider using `h2` - `h6` elements to add identifying headings to all sections, or else use a `div` element instead for any cases where no heading is needed.

From line 49, column 9; to line 49, column 43

`><section id="contact" class="my-5">`

---

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GAME AND GRAPHIC DESIGN HTMLS

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for gameDesign.html

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...]

Check by [file upload ⌄] [Choose file] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 13 milliseconds.

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for graphicDesign.html

Checker Input

Show ☐ source ☐ outline ☐ image report [Options...]

Check by [file upload ⌄] [Choose file] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 11 milliseconds.

SERVICES HTML

Initial error found was a closing div tag on its own which was then removed

After removal of stray tag

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for services.html

Checker Input

Show ☐ source ☐ outline ☐ image report [Options…]

Check by [file upload ⌄] [Choose file] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

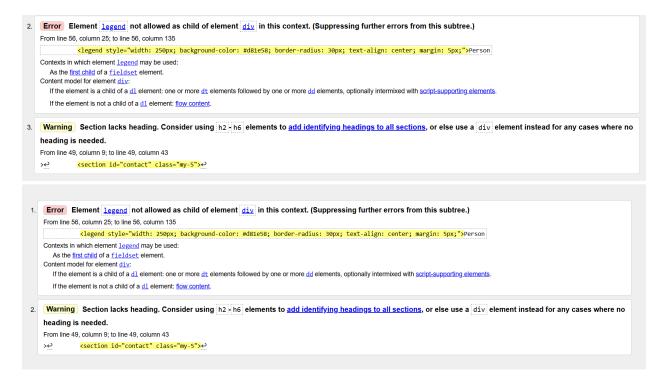Used the HTML parser.

Total execution time 13 milliseconds.

2. STEP 2 – CSS VALIDATIONS

All the CSS files got validated without issues through the website mentioned previously

W3C The W3C CSS Validation Service

W3C CSS Validator results for about.css (CSS level 3 + SVG)

Jump to: Validated CSS

W3C CSS Validator results for about.css (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as CSS level 3 + SVG !

W3C The W3C CSS Validation Service

W3C CSS Validator results for contact.css (CSS level 3 + SVG)

Jump to: Validated CSS

W3C CSS Validator results for contact.css (CSS level 3 + SVG)

Congratulations! No Error Found.

3. STEP 3 – JavaScript Validation

For this validation there was only one file and function written which is to validate the form and whether the fields have all been filled out. No errors were found, only warnings

```javascript
1   //list of variables to store the values of the input fields which are retrieved by their id
2   document.getElementById("submitButton").addEventListener("click", function(e) {
3       const firstName = document.getElementById("firstName").value.trim();
4       const lastName = document.getElementById("lastName").value.trim();
5       const email = document.getElementById("email").value.trim();
6       const phone = document.getElementById("phone").value.trim();
7       const message = document.getElementById("message").value.trim();
8       const subject = document.getElementById("subject").value.trim();
9       const department = document.getElementById("department").value;
10
11      //a condition is set to check if the fields are empty or not by using the "" string
12      //if the condition is true an alert will be shown to the user to fill in all fields and
13      if (
14        firstName === "" || lastName === "" || email === "" || phone === "" || subject === ""
15          alert("Please fill in all fields.");
16          e.preventDefault(); // Prevent form submission
17          document.getElementsByTagName("field").style.backgroundColor = "red"; // Change fie
18      }
19  });
```

CONFIGURE

Metrics

There is only one function in this file.

It takes one argument.

This function contains 11 statements.

Cyclomatic complexity number for this function is 8.

Seven warnings

3   'const' is available in ES6 (use 'esversion: 6') or Mozilla JS extensions (use moz).

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