

Validation Report

CSE211 Web Programming, Fall Semester 25/26

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Group04

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Introduction

This report documents the quality assurance activities performed on the web project to ensure code correctness and standards compliance.

The project integrates front-end technologies including HTML, CSS, and JavaScript.

Validation and testing procedures were systematically applied to all components in order to confirm proper functionality, reliability, and maintainability.

Validation Tools Used

The validation process for this project was carried out using specialized and widely recognized tools, each selected according to the programming language being validated.

These tools were used to ensure code correctness, standards compliance, and adherence to best development practices.

- HTML: W3C Markup Validation Service
<https://validator.w3.org/>
- CSS: W3C CSS Validation Service
<https://jigsaw.w3.org/css-validator/>
- JavaScript: ESLint
<https://jsontotable.org/javascript-validator>

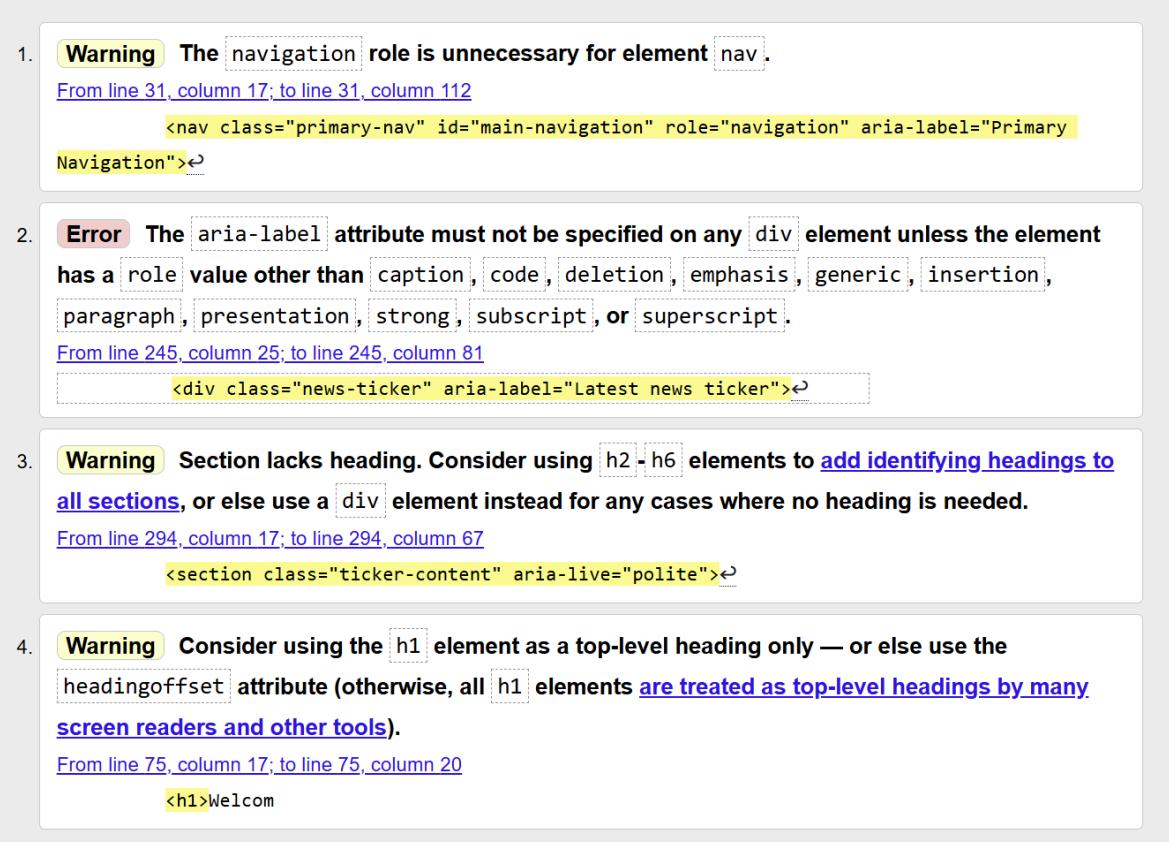
Each tool was applied independently to its corresponding source files, and validation was repeated until all reported issues were resolved.

Validation Results

HTML Validation Results

Page Name: index.html

- Status: Not Valid HTML5
- Errors: 1
- Warnings: 3
- Screenshot File:



The screenshot displays a list of validation errors and warnings from an HTML validator. It includes the error message, the line number, the problematic code, and a preview of the code.

1. **Warning** The `navigation` role is unnecessary for element `nav`.
From line 31, column 17; to line 31, column 112
`<nav class="primary-nav" id="main-navigation" role="navigation" aria-label="Primary Navigation"></nav>`
2. **Error** The `aria-label` attribute must not be specified on any `div` element unless the element has a `role` value other than `caption`, `code`, `deletion`, `emphasis`, `generic`, `insertion`, `paragraph`, `presentation`, `strong`, `subscript`, or `superscript`.
From line 245, column 25; to line 245, column 81
`<div class="news-ticker" aria-label="Latest news ticker"></div>`
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 294, column 17; to line 294, column 67
`<section class="ticker-content" aria-live="polite"></section>`
4. **Warning** Consider using the `h1` element as a top-level heading only — or else use the `headingoffset` attribute (otherwise, all `h1` elements [are treated as top-level headings by many screen readers and other tools](#)).
From line 75, column 17; to line 75, column 20
`<h1>Welcom`

How We Addressed Them:

1. Removed the navigation role from `<nav>` tags.
2. Corrected heading levels to ensure `<h3>` follows `<h2>` without skipping levels.

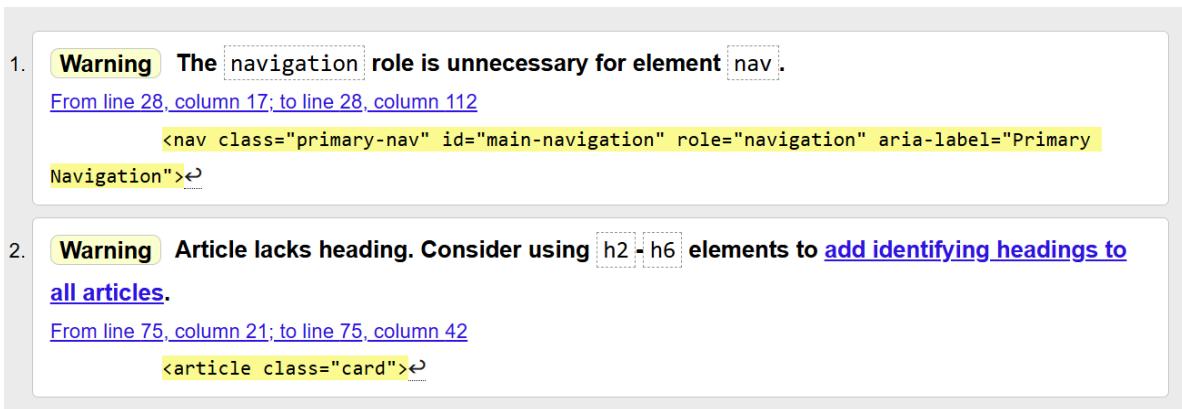
3. Removed aria-label from <div> elements to follow standard ARIA rules.
4. Limited the page to a single <h1> for better screen reader compatibility.

After:

Document checking completed. No errors or warnings to show.

Page Name: about.html

- Status: Not Valid HTML5
- Errors: 0
- Warnings: 2
- Screenshot File:



1. **Warning** The `navigation` role is unnecessary for element `nav`.
From line 28, column 17; to line 28, column 112
`<nav class="primary-nav" id="main-navigation" role="navigation" aria-label="Primary Navigation"></nav>`

2. **Warning** Article lacks heading. Consider using `h2 - h6` elements to [add identifying headings to all articles](#).
From line 75, column 21; to line 75, column 42
`<article class="card"></article>`

How We Addressed Them:

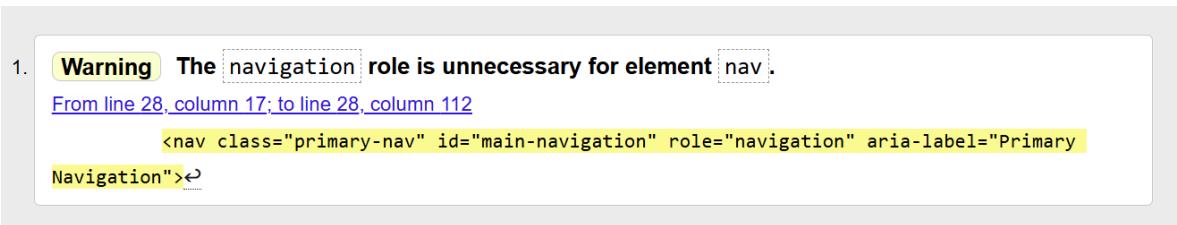
1. Removed the navigation role from <nav> tags.
2. Corrected heading levels to ensure <h3> follows <h2> without skipping levels.

After:

Document checking completed. No errors or warnings to show.

Page Name: budget-calculator.html

- Status: Not Valid HTML5
- Errors: 0
- Warnings: 1
- Screenshot File:



How We Addressed Them:

1. Removed the navigation role from <nav> tags.

After:

Document checking completed. No errors or warnings to show.

Page Name: contact.html

- Status: Not Valid HTML5
- Errors: 0
- Warnings: 1
- Screenshot File:

1. **Warning** The `navigation` role is unnecessary for element `nav`.
From line 28, column 17; to line 28, column 112
`<nav class="primary-nav" id="main-navigation" role="navigation" aria-label="Primary Navigation"></nav>`

How We Addressed Them:

1. Removed the navigation role from `<nav>` tags.

After:

Document checking completed. No errors or warnings to show.

Page Name: events.html

- Status: Not Valid HTML5
- Errors: 0
- Warnings: 1
- Screenshot File:

1. **Warning** The `navigation` role is unnecessary for element `nav`.
From line 28, column 17; to line 28, column 112
`<nav class="primary-nav" id="main-navigation" role="navigation" aria-label="Primary Navigation"></nav>`

How We Addressed Them:

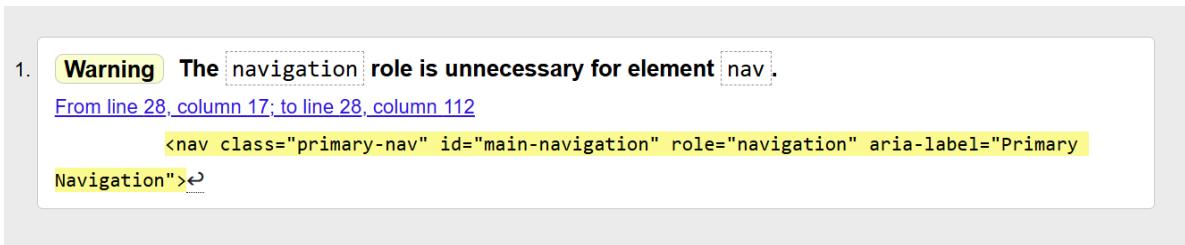
1. Removed the navigation role from `<nav>` tags.

After:

Document checking completed. No errors or warnings to show.

Page Name: registration.html

- Status: Not Valid HTML5
- Errors: 0
- Warnings: 1
- Screenshot File:



How We Addressed Them:

1. Removed the navigation role from <nav> tags.

After:



Document checking completed. No errors or warnings to show.

Page Name: student-dashboard.html

- Status: Not Valid HTML5
- Errors: 1
- Warnings: 1
- Screenshot File:

1. **Warning** The `navigation` role is unnecessary for element `nav`.
From line 28, column 17; to line 28, column 112
`<nav class="primary-nav" id="main-navigation" role="navigation" aria-label="Primary Navigation"></nav>`

2. **Error** The heading `h3` (with computed level 3) follows the heading `h1` (with computed level 1), skipping 1 heading level.
From line 68, column 25; to line 68, column 28
`<h3>Regist`

How We Addressed Them:

1. Removed the navigation role from `<nav>` tags.
2. Corrected heading levels to ensure `<h3>` follows `<h2>` without skipping levels.

After:

Document checking completed. No errors or warnings to show.

Page Name: thank.html

- Status: Valid HTML5
- Errors: 0
- Warnings: 0
- Screenshot File:

Document checking completed. No errors or warnings to show.

CSS Validation Results

page Name: contact.css

- Status: Valid CSS
- Errors: 0
- Warnings: 0
- Screenshot File:

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

Congratulations! No Error Found.

page Name: dashboard.css

- Status: Valid CSS
- Errors: 0
- Warnings: 0
- Screenshot File:

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

Congratulations! No Error Found.

page Name: index.css

- Status: Valid CSS
- Errors: 0
- Warnings: 0
- Screenshot File:

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

Congratulations! No Error Found.

page Name: main_style.css

- Status: Valid CSS
- Errors: 0
- Warnings: 0
- Screenshot File:

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

Congratulations! No Error Found.

page Name: registration.css

- Status: Valid CSS
- Errors: 0
- Warnings: 0
- Screenshot File:

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

Congratulations! No Error Found.

page Name: thank-you.css

- Status: Valid CSS
- Errors: 0
- Warnings: 0

- Screenshot File:

[W3C CSS Validator results for dashboard.css \(CSS level 3 + S\)](#)

Congratulations! No Error Found.

JavaScript Validation Results

Page Name: auth.js

- Status: Valid JS
- Errors: 0
- Warnings: 0
- Screenshot File:



Valid JavaScript!

Page Name: budget-calculator.js

- Status: Valid JS
- Errors: 0
- Warnings: 0
- Screenshot File:



Valid JavaScript!

No syntax errors found. Your code is syntactically correct and ready to use.

Code Statistics:

- Lines of code: 182
- Characters: 7405

Page Name: events.js

- Status: Valid JS
- Errors: 0
- Warnings: 0
- Screenshot File:



Valid JavaScript!

No syntax errors found. Your code is syntactically correct and ready to use.

Code Statistics:

- Lines of code: 315

Character count: 15200

Page Name: main.js

- Status: Valid JS
- Errors: 0
- Warnings: 0
- Screenshot File:



Valid JavaScript!

No syntax errors found. Your code is syntactically correct and ready to use.

Code Statistics:

- Lines of code: 467
- Characters: 13714

Page Name: thank-you.js

- Status: Valid JS
- Errors: 0
- Warnings: 0
- Screenshot File:



Valid JavaScript!

No syntax errors found. Your code is syntactically correct and ready to use.

Code Statistics:

- Lines of code: 52
- Characters: 2025

All pages validated with zero errors and zero warnings

Conclusion

The quality assurance and validation procedures applied to this web project confirm that all components perform as intended.

HTML pages adhere to HTML5 standards, CSS stylesheets are correctly structured, and JavaScript scripts execute without errors.

These measures ensure consistent functionality across browsers, enhance maintainability, and demonstrate compliance with professional web development practices.