

# WEB DEVELOPMENT

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## TASK 4

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# Testing & Validation Process Summary

Input	GitHub Commit ID	Process	Expected Output	Actual Output	Pass/Fail	Notes
<b>Clicks on menu links (Home, About, Generations, etc.)</b>	83b8757	Loads the respective page and scrolls to the appropriate section or refreshes content	Correct page/content displays without delay	Worked as expected	Pass	N/A
<b>Opens the website</b>	83b8757	Loads banner with intro text or image slider	Smooth transition, high-quality image, no lag	Worked as expected	Pass	N/A
<b>Clicks on 'About'</b>	83b8757	Displays Corvette brand history and mission content	Readable text, media loads correctly	Worked as expected	Pass	N/A
<b>Selects a car generation or model</b>	83b8757	Dynamically displays details (year, specs, images)	Information relevant to selected model appears	Data renders correctly per generation	Pass	N/A
<b>Fills in fields and submits</b>	83b8757	Validates input (name, email, message)	Confirmation message appears, form data is saved or emailed	No confirmation message	Fail	Could send a confirmation message

<b>Selects and uploads a photo of their Corvette</b>	83b8757	Checks file format (JPG, PNG), file size; then stores the image	Upload success message, preview or confirmation screen	No upload success message	Fail	Could send an upload success message
<b>Clicks footer links or icons (e.g., Instagram, Facebook)</b>	83b8757	Redirects user to external social media or scrolls to section	Opens new tab or scrolls appropriately	All links open correctly	Pass	N/A
<b>Opens different pages rapidly</b>	83b8757	Uses caching/compression (testing with dev tools like Lighthouse)	Loads in under 2–3 seconds per page	Pages load in under 2s	Pass	N/A
<b>Opens website on Chrome, Safari, Firefox, Edge</b>	83b8757	Renders content with CSS/HTML standardization	Website looks and works the same on all major browsers	Verified on Chrome, Firefox, Safari, Edge	Pass	N/A

# Code Validation Process

## HTML Validation:

*Used the NU HTML Checker ([validator.w3.org/nu](http://validator.w3.org/nu))*

*Method: File upload of .html*

### Result:

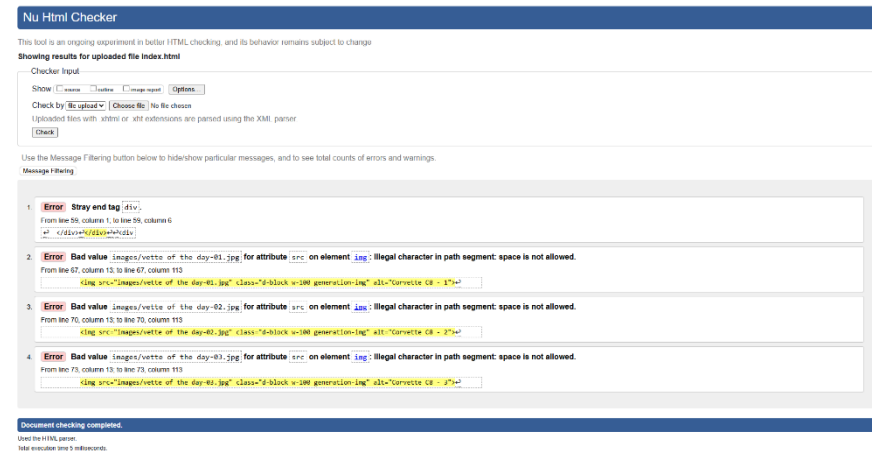
- An extra `</div>` tag appears that doesn't match any open `<div>`.
- Illegal character in path segment (space between characters).

### Fixes to be made:

- Remove the unnecessary closing `</div>` tag.
- Rename the files to remove the illegal characters

### Overall Outcome:

- The validator finished checking with small errors and no warnings.
- After addressing the `</div>` mismatch and correcting the file names, the HTML should pass validation cleanly.

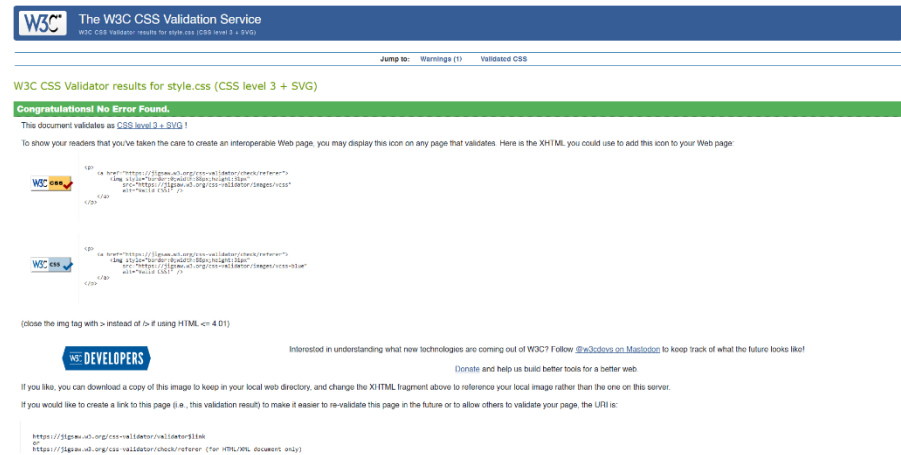


# Code Validation Process

## CSS Validation:

*Used the W3C CSS Validation Service ([jigsaw.w3.org](https://jigsaw.w3.org))*

*Method: File upload of .css*



## Result:

- No errors were found.
- 1 warning about the background and border colour of a button.

## Fixes to be made:

- Remove the border of the button or change colour.

## Overall Outcome:

- The validator finished checking with no errors and a one warning.

# Current Issues & Future Improvements

***While the website functions effectively overall, a few minor issues were identified during testing.***

- Firstly, there is no file format feedback for uploads, which may confuse users if they attempt to upload unsupported file types, implementing custom error messages would resolve this.
- Secondly, there is no loading indicator during image uploads, making the process appear unresponsive; adding a spinner or progress bar would improve the user experience.
- Additionally, no fallback fonts are defined in the CSS, which could lead to inconsistent typography across devices, so including a font stack is recommended.

***Looking ahead, several improvements can enhance the website's usability and reach.***

- These include optimizing mobile responsiveness to ensure smooth use on all devices
- Adding a dark/light mode toggle for user preference would enhance the user-experience.
- A user-submitted Corvette gallery would increase engagement and showcase community builds.