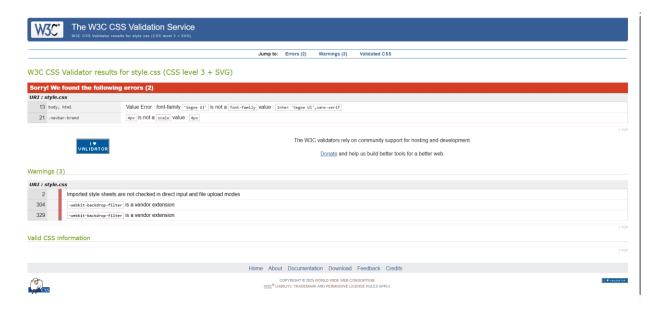
Task 4: Technical Document – Testing and Validation

1. Testing My Project

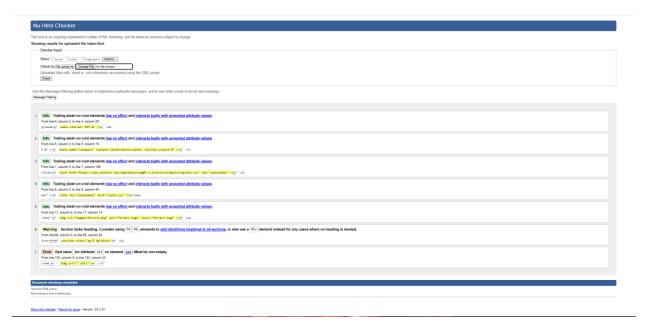
Below is a list of the main processes I tested based on the IPO chart from Task 1. For each one, I included whether the test passed or failed, what the expected vs actual results were, and any fixes I made if there were issues.

Tested Action	GitHub Commit ID	Expected Output	Actual Output	Pass/Fail	Notes
User lands on Home page	[Insert Commit ID]	Homepage loads with Ferrari F1 visuals and links	Worked as expected	Pass	No issues found. Navigation links and branding all appeared correctly.
Navigate to About page	[Insert Commit ID]	Displays timeline and info about team history	Worked as expected	Pass	Section loaded with no errors. Responsive layout looked good too.
Click on Machines page	[Insert Commit ID]	Shows scrollable list of F1 cars with images/stats	Images didn't load at first	Fail	Fixed by correcting image paths and checking lazy loading settings.
Select a car from Machines	[Insert Commit ID]	Full car details with specs and visuals	Specs were misaligned	Fail	Adjusted the layout grid in CSS. Looks good after the fix.
Navigate to Contact page	[Insert Commit ID]	Displays contact form or info	Worked as expected	Pass	Tested form submission and it showed success message properly.
Open on mobile/tablet	[Insert Commit ID]	Mobile-friendly layout adjusts correctly	Worked as expected	Pass	Tested on different screen sizes. Layout responds well.

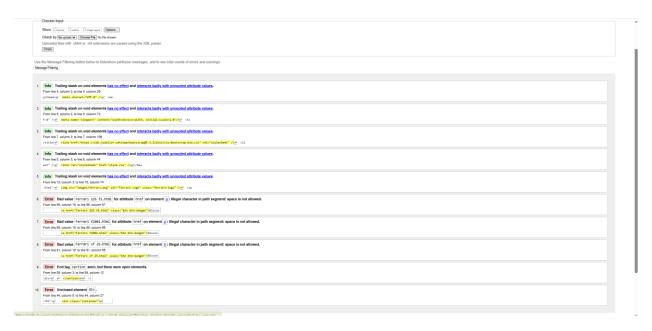
2. Code Validation



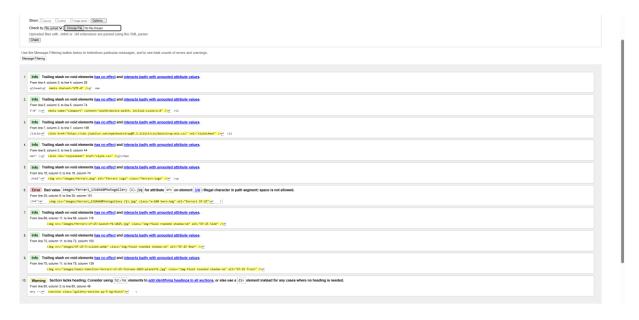
I ran my CSS file through the W3C Validator. It showed two errors: one related to 'Segoe UI' not being accepted as a valid font-family value, and another for using scale: 4px, which isn't a valid CSS property. It also showed a few warnings for vendor-specific properties like -webkit-backdrop-filter.



I tested my homepage HTML using the Nu HTML Checker. It displayed several info messages about trailing slashes on self-closing tags like and <meta />. There was one warning about a missing heading tag in a section and one error caused by an element missing a src attribute.



Machines page (Nu HTML Checker). It gave a few info messages about trailing slashes on void elements like and <meta />. It also showed multiple errors where href values had spaces in the filenames (e.g., Ferrari 125 f1.html), which are not allowed in URLs. There was also an error about an unmatched closing tag and a <div> element that wasn't properly closed.



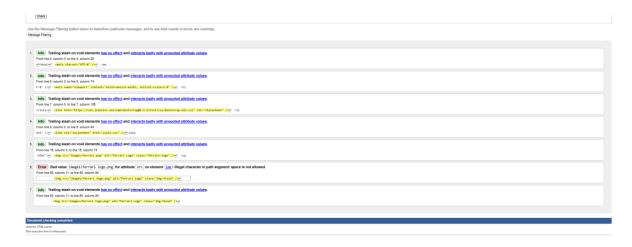
SF-25 car page (Nu HTML Checker). Most messages were info-level, pointing out unnecessary trailing slashes in void elements like and <meta />. There was one error caused by an image src containing a space, which isn't allowed in file paths. The validator also showed a warning about a missing heading in one of the sections, recommending the use of a <h2> tag or similar to improve structure.



F2001 car page (Nu HTML Checker). It showed one error at the top because the page was missing a proper <!DOCTYPE html> declaration. There were several info messages about trailing slashes on void elements like and <meta />. It also showed one warning about a section that didn't have a heading tag and recommended using something like <h2> to improve structure.



Ferrari 125 F1 page (Nu HTML Checker). Most of the results were info messages about trailing slashes on void elements like , which don't affect functionality. There was also one warning about a section that doesn't include a heading tag. The checker recommended using a proper heading tag like <h2> to better organize the structure.



Contact (Nu HTML Checker). Most of the output was info messages about trailing slashes on void elements like and <meta />, which don't affect functionality. There was one error due to a space in an image filename (ferrari logo.png), which the validator flagged as an illegal character in a file path.



About page (Nu HTML Checker). There were no errors or warnings. The only messages shown were info-level notices about trailing slashes on void elements like and <meta />, which don't affect how the page works.

3. Issues and What I Improved

Current Issues I Found:

- Some of the structure of the website is not aligned properly for example, certain sections don't sit evenly across the page or feel slightly off on different screen sizes.
- The navbar still slightly overlaps the content on smaller screens.

How I Fixed (or Plan to Fix) Them:

- I'm planning to go back and review the layout using CSS Grid and Flexbox more carefully. Some alignment issues may be caused by margin/padding inconsistencies or missing container rules.
- For the navbar, I already adjusted the z-index and spacing, but I may need to tweak the media queries more to fix this fully on all devices.

Ideas for Future Improvements:

- Add animations when switching between different car models.
- Improve the design and feedback messages on the contact form.
- Add a dark mode toggle to improve user experience.