

Unit 15 Assignment 2

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- Demonstrate individual responsibility, creativity and effective self-management in the design, development, and review of a website

Planning

```
gantt
title Project Timeline
dateFormat DD-MM
section Design
    Produce designs: a1, 10-02, 3d
    Justify the design decisions :a2, after a1, 1d
    Review the website design proposals with others: a3, after a2, 1d
    Evaluate the design against client requirements : a4, after a3, 1d
section Website
    Produce a website : b1, 16-02, 5d
    Annotate Website Screenshots: b2, after b1, 1d
    Test the website : b3, after b2, 2d
    Review the extent to which the website meets client requirements: b4,
    after b3, 1d
    Optimise a website to meet client requirements: b5, after b4, 2d
    Evaluate the optimised website against client requirements: b6, after b5,
    1d
```

Client Requirements

Features

- A profile of the company itself
- Profiles of existing trainee web developers
- Job specifications and required qualifications
- An online application form
- Links to web development courses
- Well-maintained code

Extra Features

- Collect contact details & CV in application form
- Names, roles, and biographies for 5 different employees
- Web development courses of varying skill levels

User Needs

- Easy to navigate

- Clear call to action buttons
- All links/buttons working
- Uncluttered design
- Consistent visual elements

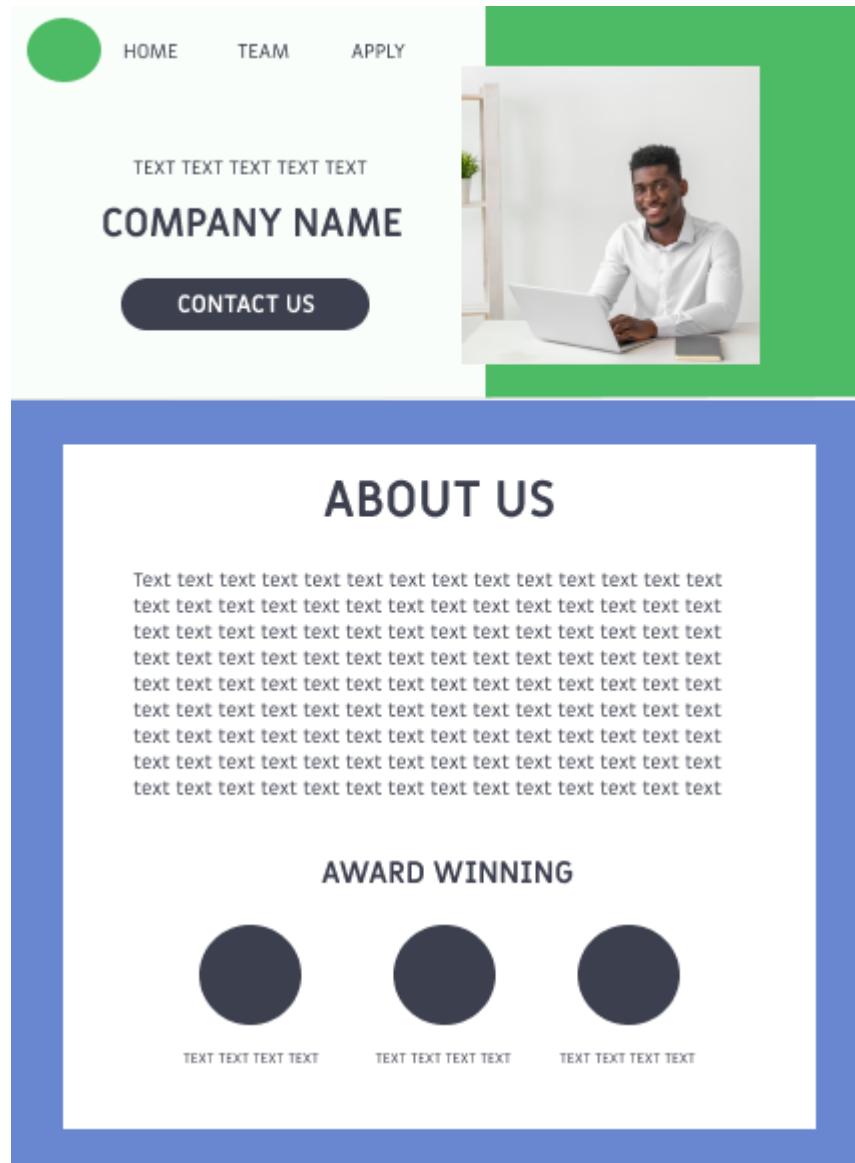
Target Audience

The target audience for the site is people who have completed training courses or qualifications related to web development and are now looking for a job as a web developer.

Design of the website

Design 1

Completed 10/02





text text text text text
text text text text text

text text text text text
text text text text text

text text text text text
text text text text text

[back to top](#)

A stylized navigation bar. The top section is green with white text and features three decorative icons: a yellow triangle, a red circle, and a blue square on the left; a blue square, a yellow star, and a red circle on the right. The word "TEXT TEXT TEXT" is centered in white. Below this is a dark blue section containing three "HEADER" labels, each followed by three "link" labels. At the bottom of the blue section are three dark gray circular icons. The bottom part of the bar has a light gray background with the text "COMPANY NAME" on the left and three small dark gray circles on the right.



[HOME](#)

[TEAM](#)

[APPLY](#)

MEET THE TEAM

TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT
TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT
TEXT

TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT

[APPLY](#)

[COURSES](#)

HEADER



text text text text text
text text text text text

TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT
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TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT
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TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT

HEADER



text text text text text
text text text text text

TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT
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HEADER

text text text text text
text text text text text

[back to top](#)

COMPANY NAME

HEADER

HEADER

HEADER



HOME

TEAM

APPLY

JOB SPECIFICATIONS

WHAT WE'RE LOOKING FOR

- TEXT TEXT TEXT TEXT TEXT
 - TEXT TEXT TEXT TEXT TEXT
 - TEXT TEXT TEXT TEXT TEXT
 - TEXT TEXT TEXT TEXT TEXT

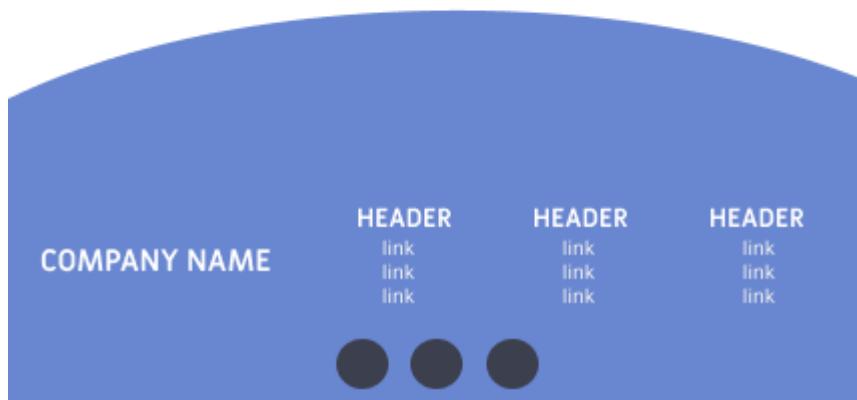
APPLY

TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT
TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT
TEXT

TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT TEXT

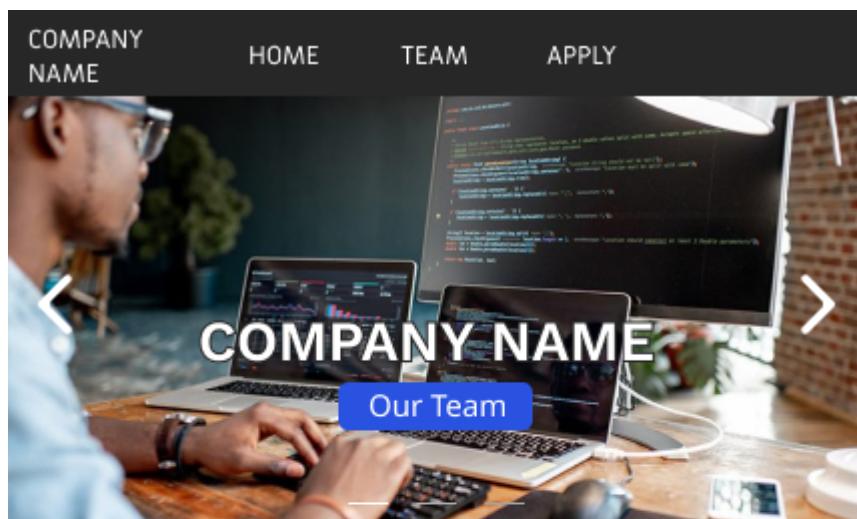
APPLICATION FORM

QUALIFICATIONS

COURSES[back to top](#)

Design 2

Completed 13/02



Our Team

Text text text text text text
text text text text

[View Details](#)

Apply

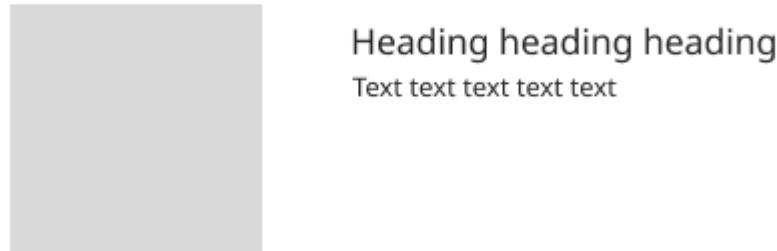
Text text text text text text
text text text text

[View Details](#)

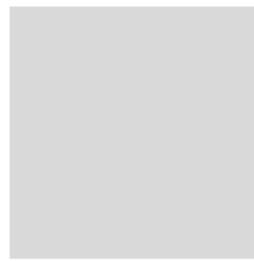
Courses

Text text text text text text
text text text text

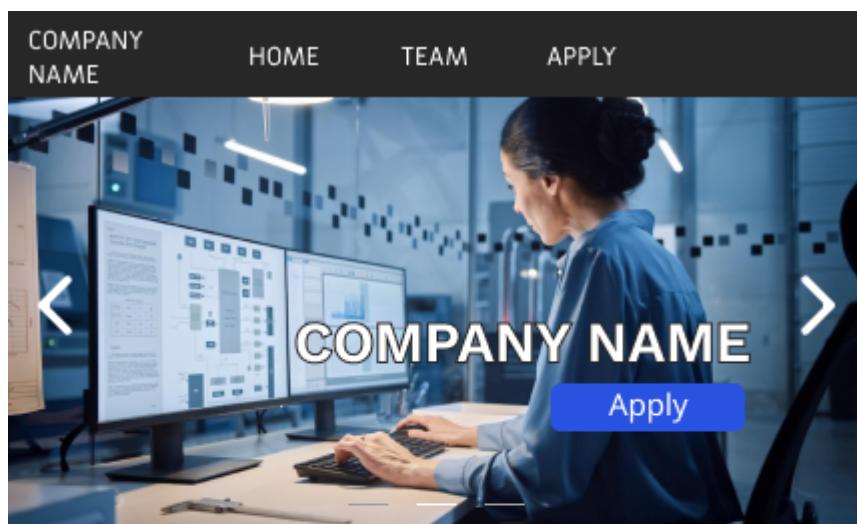
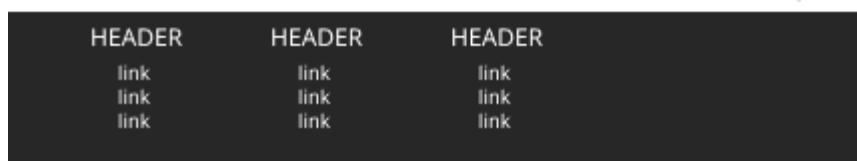
[View Details](#)



Heading heading heading
Text text text text



[Back to top](#)



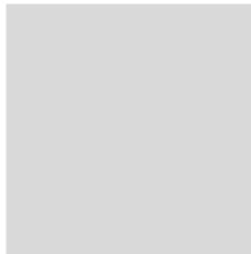
Meet our team

Text
text text text text text text text text text text
text text text text text text text text text text

Interested in applying?

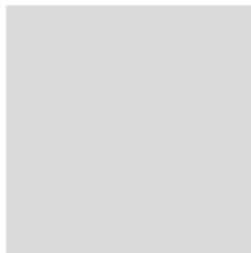
Interested in applying?

[Learn More](#)



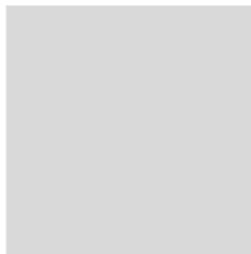
Heading heading heading

Text text text text text



Heading heading heading

Text text text text text



Heading heading heading

Text text text text text

[Back to top](#)

HEADER

link
link
link

HEADER

link
link
link

HEADER

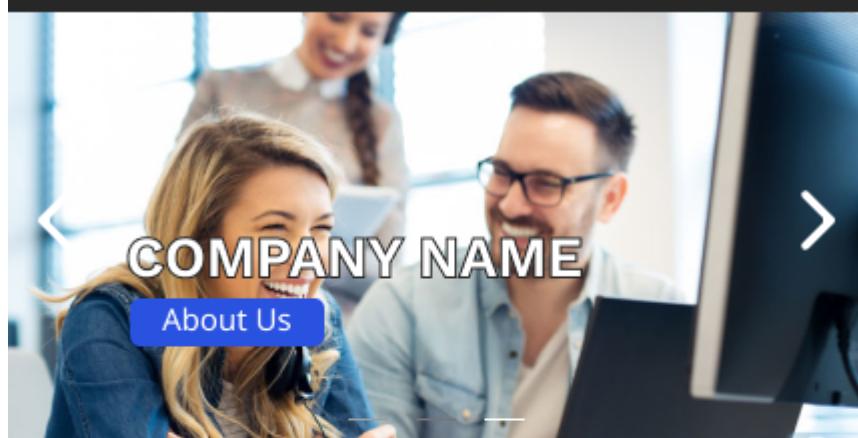
link
link
link

COMPANY
NAME

HOME

TEAM

APPLY



Header

[Apply now](#)

What we're looking for

Text
text text text text text text text text text text text
text text text text text text text text text text text

Required Qualifications

Text
text text text text text text text text text text

- Text text text text
- Text text text text
- Text text text text
- Text text text text
- Text text text text
- Text text text text
- Text text text text
- Text text text text

Courses



Course

Text
text text text text text text text text text text

[Go to course](#)



Course

Text
text text text text text text text text text text

[Go to course](#)



Course

Text
text text text text text text text text text text

[Go to course](#)

[Back to top](#)

HEADER

HEADER

HEADER

link
link
link

link
link
link

link
link
link

Justify the design decisions, explaining how they will meet the user's needs and be fit for purpose

User needs are expectations of potential website users that focus on usability, accessibility, and information architecture. The design decisions made meet user needs such as ease of navigation, clear call to action buttons, uncluttered design, and consistent visual elements.

The simple, uncluttered layout allows for easier navigation and retrieval of information as well as improving the user's focus, and also means that loading times are faster especially on slower connections. Furthermore, an uncluttered layout projects a professional, efficient image for the brand and allows for emphasis on key content.

The contrasting colours between the text and background improve the website's readability. The colour palette is simple and consistent, strengthening brand recognition and consistency- the muted tones in design 2 reflect sophistication and professionalism, while the vibrant colours in design 1 convey a youthful and

energetic brand. Design 2's colour scheme may be more appropriate for the intended audience, which is professionals that have completed a qualification and are looking for a job as a web developer.

The clear calls to action meet user needs by guiding the user towards desired actions (Apply now, contact, etc), and simplifies decision-making. It reinforces the desired user interaction.

The typography is consistent- it improves readability and information hierarchy, and crafts a cohesive visual experience. It establishes a brand personality/voice through font choices.

The use of many images and visuals (represented by grey circles/squares in the designs) enhances the user's engagement with the content, breaking up the text and adding more visual interest. It also showcases the services that are on offer in an appealing way and conveys the brand's personality through visuals. The images will create a welcoming, friendly atmosphere for the website.

Review the website design proposals with others to identify and inform improvements

Feedback 1

"Design 2 is more sleek and professional, which I think is important in website design. While the colourful one (design 1) is more fun and interesting to look at, it becomes a bit excessive with the amount of shapes that it has and my eyes don't know where to look. Design 2 is the better design, but could use a different font as it looks strange especially on the 'Apply Now' button." (Feedback from Ella)

Feedback 2

"Design 2 is easy to use and accessible with the high contrast text and backgrounds. The colours are satisfying and the layout is streamlined. However, there could be a greater variety in colours to make the text stand out more." (Feedback from Aksel)

Based on the feedback, I decided to proceed with Design 2. It has a more professional feel, as well as having a layout that allows information to be found easily.

However, as highlighted in the feedback, improvements that could be made when creating the website from this design include a better font and a greater variety in colours (this could be incorporated with images).

Evaluate the design against client requirements

Client requirements are objectives provided by the client for the website, and they focus on functionality, content, and technical aspects of the website.

The design meets the majority of client requirements with its inclusion of a company profile in the 'about us' section, highlighted on the home page. It also includes job specifications and required qualifications, a section for links to web development courses where there are multiple boxes for different courses to be implemented, and trainee profiles that have two headers for names and roles as well as accompanying text for biographies.

However, not all client requirements are met by the design: a design for the application form has not been created, which is a shortcoming that fails to completely align the website's designs with the client

requirements that have been set. Although I had intended to link the application form to the 'Apply Now' button on the design's job page, this is not immediately obvious to other people looking at the designs and should have been made clearer. The lack of design for an application form means that the form page would need to be improvised, which could lead to inconsistent visual elements (which is a user need).

Overall, the design meets most client requirements as it encompasses features like a company profile, employee profiles, job specifications and qualifications, and links to courses. It fails to show a design for an application form. This is an oversight that means the form will need to be improvised as the website is created. The application form is not well-planned, putting it at risk of not meeting user needs.

Screenshots of website

Each page has a simple, easy to understand navigation bar along with a large banner (free to use stock image) that brings more visual interest to the website.

There is an about us section- text has been generated by Gemini, but prompts have been provided to tailor the 'voice' of the website to suit the target audience, which is new graduates (often young adults) that have finished a qualification and are looking for a web development job.

The screenshot shows a dark-themed website for "Hot Beans". At the top, there's a navigation bar with links for "Home", "Our Team", and "Apply". Below the navigation, there are three profile boxes, each containing a circular placeholder image, the name of the team member, their role, and a brief description.

- Maya Patel** (Front-End Developer): Maya Patel is a passionate and detail-oriented front-end developer at Hot Beans. With a keen eye for aesthetics and a strong understanding of user experience principles, she brings websites to life through her expertise in HTML, CSS, and JavaScript frameworks like React and Vue.js. Maya thrives in a collaborative environment, working closely with designers and back-end developers to ensure seamless user journeys and visually stunning interfaces. Her dedication to continuous learning keeps her at the forefront of the ever-evolving web development landscape, allowing her to craft innovative and engaging solutions for Hot Beans' clients.
- Sarah Li** (Full-Stack Developer): Sarah Li is a versatile and problem-solving full-stack developer at Hot Beans. She thrives in the dynamic world of both front-end and back-end development, wielding her expertise in languages like HTML, CSS, JavaScript, Python, and Java to build robust and scalable web applications. Sarah enjoys tackling complex technical challenges and collaborating with clients to translate their vision into a tangible web presence. Her dedication to writing clean and efficient code ensures the smooth operation and long-term maintainability of her projects.
- Alex Bennett** (UI/UX Designer): Alex Bennett is a creative and user-centric UI/UX designer at Hot Beans. He possesses a deep understanding of user psychology and design principles, which he uses to create intuitive and aesthetically pleasing user interfaces.

Each team member profile image was generated on the website 'This Person Does Not Exist', which produces AI generated fake photos of a random human face.

The screenshot shows a dark-themed website for "Hot Beans". At the top, there's a navigation bar with links for "Home", "Our Team", and "Apply". Below the navigation, there's a section titled "Courses" with three course offerings, each with a circular placeholder image, the course name, and a "Go To Course" button.

- Web Development For Beginners**: Learn full-stack web development in this full course for beginners. First, you will learn the basics of HTML, CSS, and JavaScript. Then, you will learn how to put everything together to create a frontend movie search app. Finally, you will learn how to create a backend API to create movie reviews and connect the frontend to the backend. The backend uses Node.js, Express, and MongoDB.
- Web Design 101**: Learn how to design a website from scratch. In this course you'll learn everything you need to create a beautiful, fully functional custom website from start to finish.
- Intermediate Web and Front-End Development**

Courses include a range of skill levels- they link to courses from websites like Youtube and Coursera.

The screenshot shows a website for 'Hot Beans' with a dark header bar containing the company name and navigation links for 'Home', 'Our Team', and 'Apply'. The main content area has a light background. A section titled 'What we're looking for' contains text about the company's values and work environment. Another section titled 'Required Skills' lists specific qualifications.

What we're looking for

At Hot Beans, we're not just searching for skilled developers – we're seeking passionate individuals who crave a collaborative and stimulating work environment. We value creativity, problem-solving abilities, and a genuine desire to learn and contribute to innovative projects. If you're a team player with a hunger to excel and a love for all things coffee (not mandatory, but strongly encouraged!), we encourage you to apply!

We're cultivating a vibrant community of passionate individuals who thrive in a collaborative and stimulating work environment. We're not just searching for technical skills, we seek individuals who crave the energy and inspiration that comes from working alongside talented teammates.

Required Skills

To thrive at Hot Beans, you'll need a strong web development foundation (HTML, CSS, JavaScript) and experience with popular frameworks is a plus. We value creative problem-solvers with excellent communication skills who thrive in collaborative environments and embrace continuous learning. Passion for web development and a desire to create exceptional user experiences are essential. If you're excited to join our team, apply today!

- A strong foundation in web development principles: HTML, CSS, and JavaScript proficiency is a must.
- Experience with popular frameworks and libraries: Bonus points for familiarity with React, Vue.js, or similar frameworks.
- A passion for learning and staying up-to-date: we value individuals who embrace continuous learning.

The job specifications and qualifications have been AI generated.

Review the extent to which the website meets client requirements

The website mostly meets the client requirements. It includes a section for a company profile (an about us section), trainee profiles with their names, roles, and biographies, job specifications with required qualifications, and an online application form with fields to input contact details as well as CV upload functionality. The website offers a user-friendly experience with clear and simple navigation- the navigation bar and section headings both contribute to user-friendliness and ease of finding information. It has fully functioning links and buttons, and the call to action buttons use clear, concise language to direct users to take action ("Apply Now", "Learn More"). It has an uncluttered design aided by consistent spacing and margins, and consistent visual elements, including links to web development courses of varying skill levels. These features encompass a majority of the client/user requirements that have been stated.

However, there is one element the website falls short on: well-maintained code. The CSS especially is not very well maintained, which contradicts an explicit client requirement. This could lead to issues such as bugs and difficulties in managing and updating the site in future.

Overall, while the website succeeds in meeting the majority of the client requirements, it is essential to address the poorly maintained code- this will ensure that the code for the website is robust and easily manageable. For this reason, in order to optimise the website, I will need to prioritise cleaning up the code; this will then lead to all client requirements being met by the website.

Testing the website

Test Plan

Functionality

- Test load speeds.
- Unit test code- test CSS and HTML using w3 validators.

Compatibility

- Test browser compatibility (screenshots side by side of browsers).

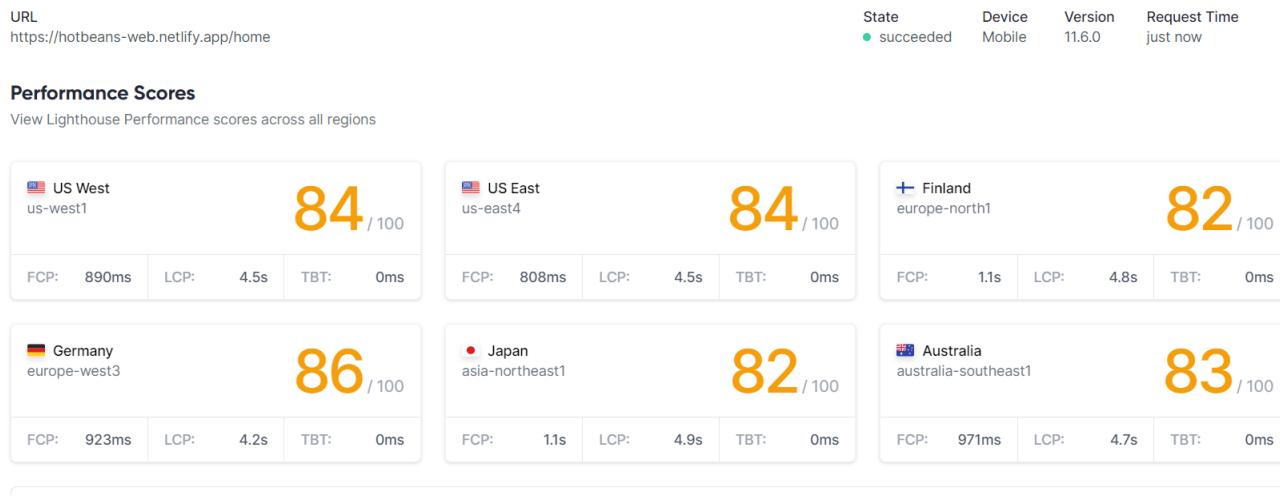
Usability

- Test the links and buttons on the pages to ensure they direct to the correct place.
- Test the application form - mandatory field validation and input validation.
- User feedback

Load Speeds

The results on [Lighthouse](#) show that the website's performance is below average.

Several factors could contribute to the performance of my website. Large, uncompressed images, unused or redundant CSS code adding weight to the page, network issues, and netlify settings configuration may be impacting the website's load times and rendering. These metrics could be improved by removing unused CSS and explicitly setting widths and heights for images, or using image compression tools.



Unit Testing

CSS

Using the [w3 CSS validator](#), 2 errors were found in src/css/style.css

The W3C CSS Validation Service
W3C CSS Validator results for style.css (CSS level 3 + SVG)

Jump to: Errors (2) Validated CSS

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

Sorry! We found the following errors (2)

URI : style.css

185 .course-info	:left] is not a [align-items] value :[left]
290 .button2	Property [size] doesn't exist. The closest matching property name is [resize] :[40px]

↑ TOP

HTML

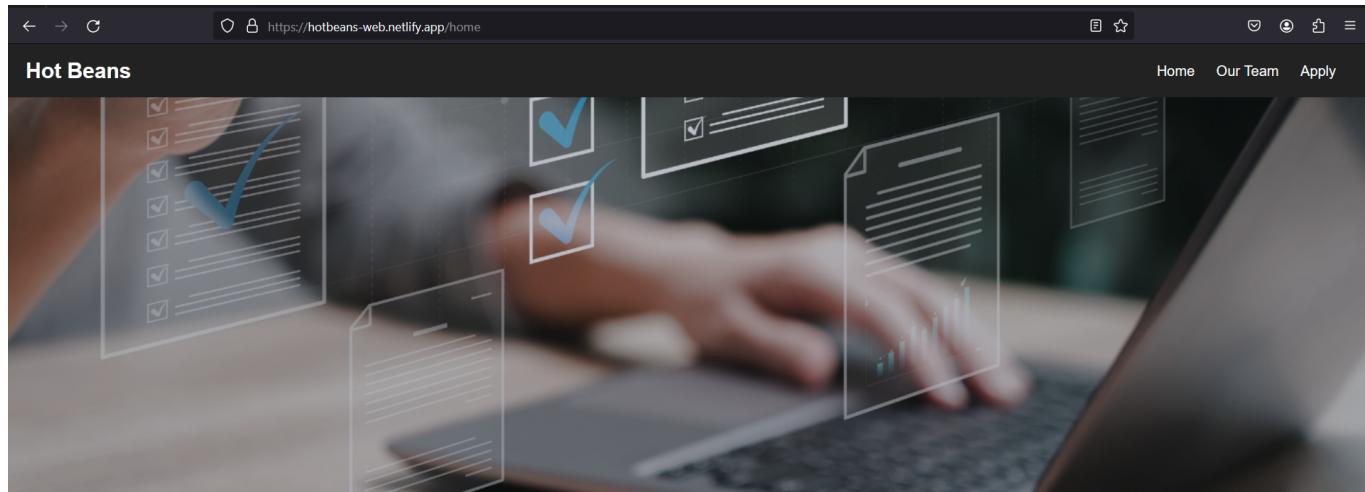
Using the [w3 HTML validator](#), 8 errors were found in src/html/home.html

- Error** An `img` element must have an `alt` attribute, except under certain conditions. For details, consult [guidance on providing text alternatives for images](#).
From line 22, column 5; to line 22, column 52
``
- Error** Stray end tag `img`.
From line 22, column 53; to line 22, column 58
`nd-image"><`
- Error** Element `hr` not allowed as child of element `ul` in this context. (Suppressing further errors from this subtree.)
From line 57, column 9; to line 57, column 12
`><hr><`
Contexts in which element `hr` may be used:
Where `flow_content` is expected.
As a child of a `select` element.
Content model for element `ul`:
Zero or more `li` and `script-supporting` elements.
- Error** Bad value `500px` for attribute `width` on element `img`; Expected a digit but saw `p` instead.
From line 59, column 13; to line 59, column 99
`<`
- Error** Element `hr` not allowed as child of element `ul` in this context. (Suppressing further errors from this subtree.)
From line 65, column 9; to line 65, column 12
`><hr><`
Contexts in which element `hr` may be used:
Where `flow_content` is expected.
As a child of a `select` element.
Content model for element `ul`:
- Error** Bad value `500px` for attribute `width` on element `img`; Expected a digit but saw `p` instead.
From line 67, column 13; to line 67, column 100
`<`
- Error** Bad value `30px` for attribute `width` on element `img`; Expected a digit but saw `p` instead.
From line 91, column 9; to line 91, column 157
`b><`
- Error** Bad value `30px` for attribute `height` on element `img`; Expected a digit but saw `p` instead.
From line 91, column 9; to line 91, column 157
`b><`

Browser Compatibility

To ensure a seamless experience for users, I tested the website across various browsers including Firefox, Edge, and Chrome. This testing verified consistent functionality and visual presentation across different platforms.

Firefox

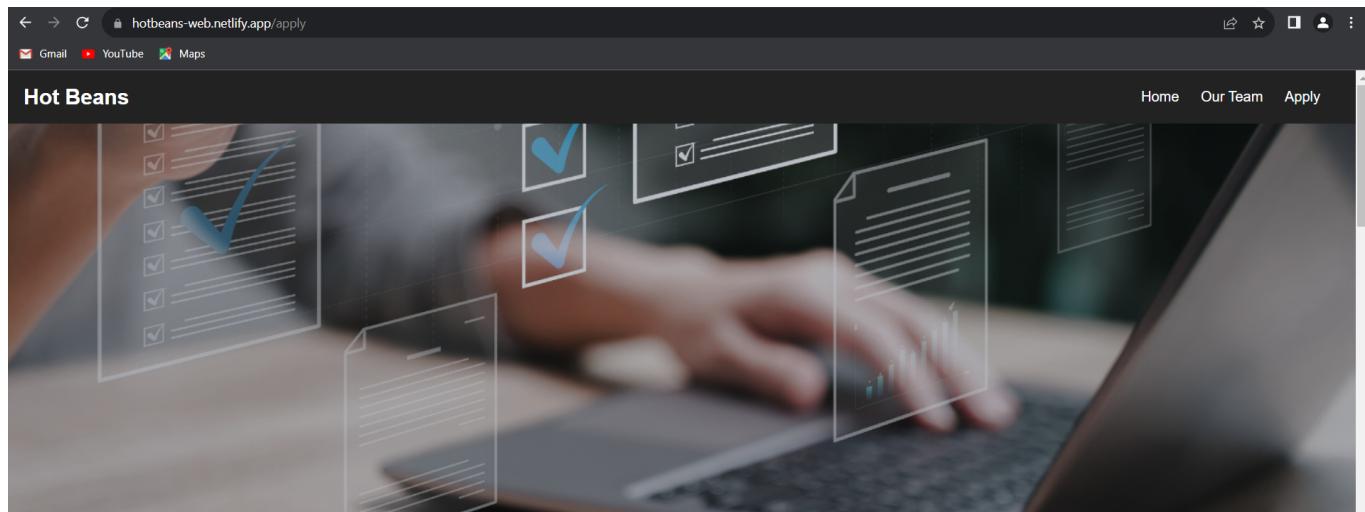


On Firefox, the images load noticeably more slowly than other browsers like Edge and Google. This links back to the Lighthouse metrics, which indicated poor load speeds.

Edge

A screenshot of the 'Hot Beans' website as viewed in Microsoft Edge. The page shows the 'Our Team' section. It features two profile cards. The first card is for 'QA Tester' Olivia Johnson, showing her photo and a detailed description of her role as a meticulous QA tester. The second card is for 'Back-End Developer' Chloe Zang, showing her photo and a description of her work as a developer. At the bottom of the page is a footer with links to 'Contact Us', 'Apply', and 'Qualifications', along with a copyright notice for 2024 and a small logo.

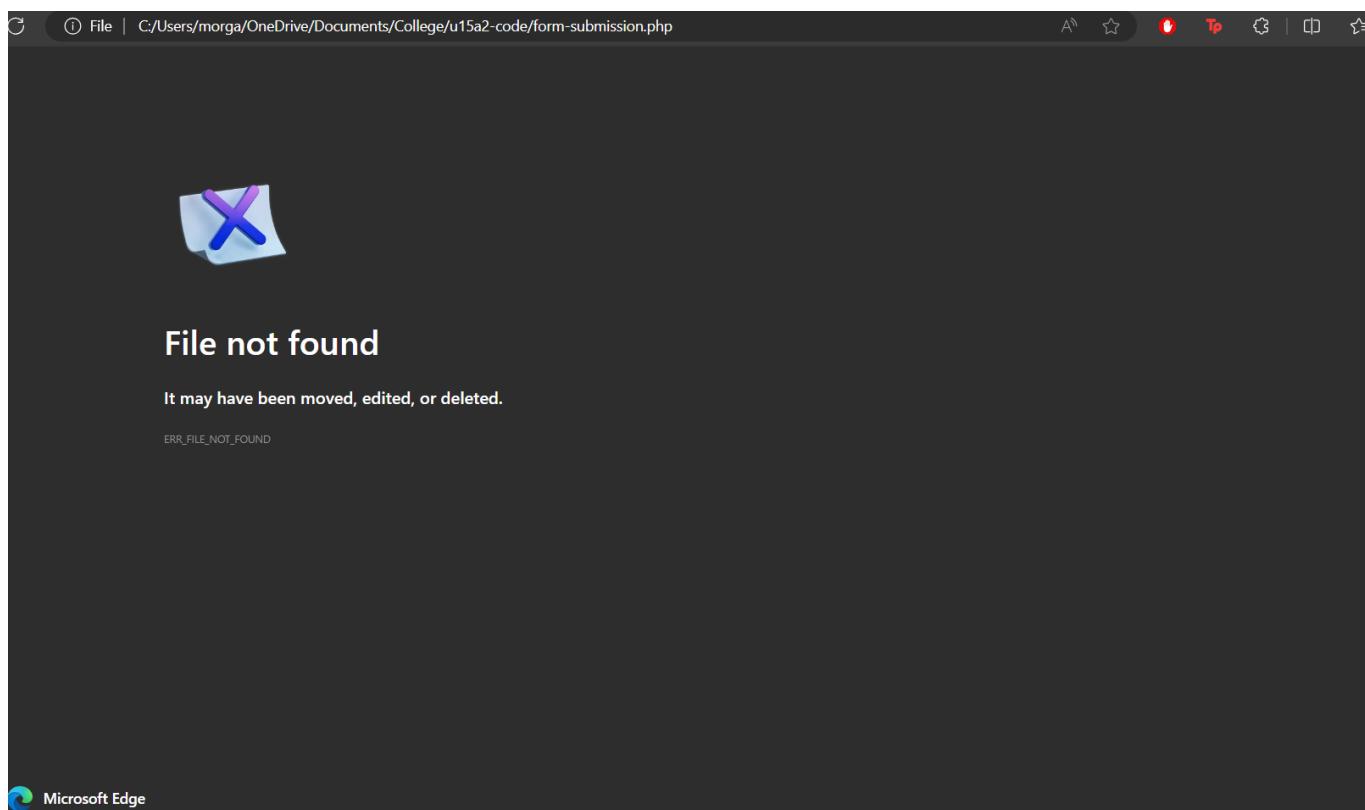
Chrome



The screenshot shows a web page titled "Hot Beans" with a dark background. At the top, there's a navigation bar with links for "Home", "Our Team", and "Apply". Below the navigation, there's a large image of a person's hands working on a laptop keyboard, overlaid with several semi-transparent floating windows containing checklists and a bar chart. In the center, the text "Hot Beans Web Development" is displayed. At the bottom, there are two buttons: "Apply Now" and "Contact Us".

Testing Links/Buttons

On the navigation bar, all links are functional. However, on the footer, there are links to pages that don't direct the user to the correct page when clicked. Another issue is the 'Contact Us' button, which leads nowhere- I have not created a page that contains contact details for the company. The 'submit' button on the application form leads to an error. From this test, I can see that the footer, the 'Contact Us' button, and the 'Submit' button are non-functional and need to be fixed.



The screenshot shows a Microsoft Edge browser window with a dark theme. The address bar displays the URL "C:/Users/morga/OneDrive/Documents/College/u15a2-code/form-submission.php". The main content area shows a "File not found" error page with a blue paper icon featuring a large red X. The text "File not found" is prominently displayed, followed by the message "It may have been moved, edited, or deleted." and the code "ERR_FILE_NOT_FOUND". The Microsoft Edge logo is visible at the bottom left of the browser window.

Testing Application Form

Join the Hot Beans Team

We're looking for passionate individuals to join our vibrant community!

Full Name:

Email Address: ! Please fill out this field.

Phone Number (Optional):

Job Position: Select a position

Upload CV (PDF only): Choose File No file chosen

Submit Application

As intended, the application form flags when fields have been left empty, succeeding tests for mandatory field validation.

Join the Hot Beans Team

We're looking for passionate individuals to join our vibrant community!

Full Name: abc

Email Address: abc

Phone Number (Optional): ! Please include an '@' in the email address. 'abc' is missing an '@'.

Job Position: Select a position

Upload CV (PDF only): Choose File No file chosen

Submit Application

The application form also flags when a field has incorrect input, succeeding tests for input validation.

User Feedback

"The website is very user-friendly and easy to navigate, I found all of the information I was looking for quickly and easily."

"The website looks great on my laptop, but not so much on my phone."

"The website is easy to read and use because of the clean design and uncluttered layout."*

From the user feedback, I gather that the successes of the website include ease of navigation and a clear, intuitive layout which contribute to good usability for the website.

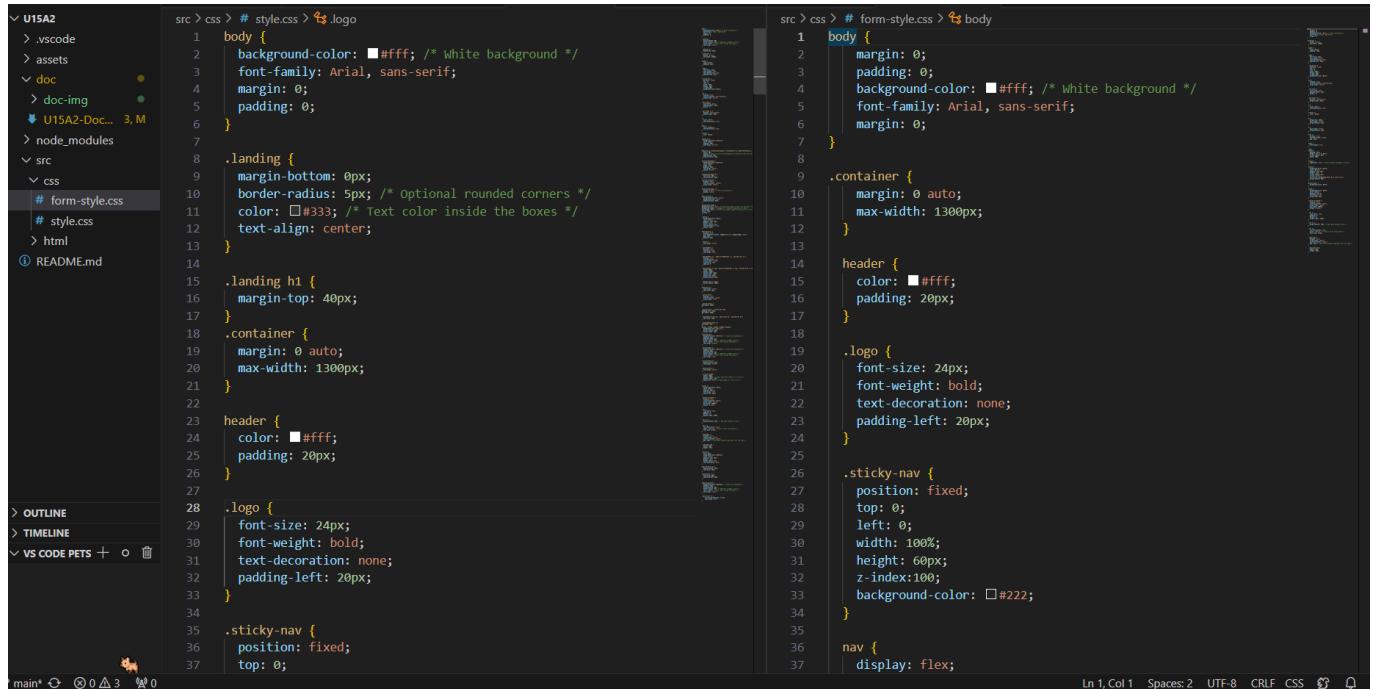
However, an area that needs to be looked into is cross-platform compatibility. The website is difficult to navigate on mobile as it is too wide, meaning that (for instance) the user needs to scroll horizontally in order

to access the full navigation bar, making it more difficult to navigate to different pages.

Optimise a website to meet client requirements

To optimise my website, I will address the client requirement that has not been met: well-maintained code. Although the appearance of the website won't change, the code will see improvements in its structure.

The CSS files in particular are an issue- in the unoptimised website there are only two files, style.css (used in home.html, apply.html, and team.html) and form-style.css (used in application-form.html). Style.css is 322 lines long as a result of this, many of which are unused or redundant and could contribute to slow load speeds for the website. With optimisation, the website may gain improved performance metrics.



```

U15A2
src > css > # style.css > logo
1 body {
2   background-color: #ffff; /* White background */
3   font-family: Arial, sans-serif;
4   margin: 0;
5   padding: 0;
6 }
7
8 .landing {
9   margin-bottom: 0px;
10  border-radius: 5px; /* Optional rounded corners */
11  color: #333; /* Text color inside the boxes */
12  text-align: center;
13 }
14
15 .landing h1 {
16   margin-top: 40px;
17 }
18 .container {
19   margin: 0 auto;
20   max-width: 1300px;
21 }
22
23 header {
24   color: #ffff;
25   padding: 20px;
26 }
27
28 .logo {
29   font-size: 24px;
30   font-weight: bold;
31   text-decoration: none;
32   padding-left: 20px;
33 }
34
35 .sticky-nav {
36   position: fixed;
37   top: 0;

```



```

src > css > # form-style.css > body
1 body {
2   margin: 0;
3   padding: 0;
4   background-color: #ffff; /* White background */
5   font-family: Arial, sans-serif;
6   margin: 0;
7 }
8
9 .container {
10  margin: 0 auto;
11  max-width: 1300px;
12 }
13
14 header {
15  color: #ffff;
16  padding: 20px;
17 }
18
19 .logo {
20  font-size: 24px;
21  font-weight: bold;
22  text-decoration: none;
23  padding-left: 20px;
24 }
25
26 .sticky-nav {
27  position: fixed;
28  top: 0;
29  left: 0;
30  width: 100%;
31  height: 60px;
32  z-index: 100;
33  background-color: #222;
34 }
35
36 nav {
37  display: flex;

```

To optimise the website, I will split the CSS into separate files. I will create a file for base styles named styles.css, which will hold all common styles shared across all pages and will be included in the head section of each HTML file. Styles.css will contain styles for: body, container, header, navigation (logo, sticky-nav, nav-links, etc), general text styles for headings (h1, h2, h3) and paragraphs, and footer. In the process, I will remove unused CSS and condense CSS that is repeated for multiple different elements, sharing it across them instead. I will also add ALT text to the HTML files where it is missing in order to abide by accessibility guidelines, better meeting user needs.

Page specific CSS

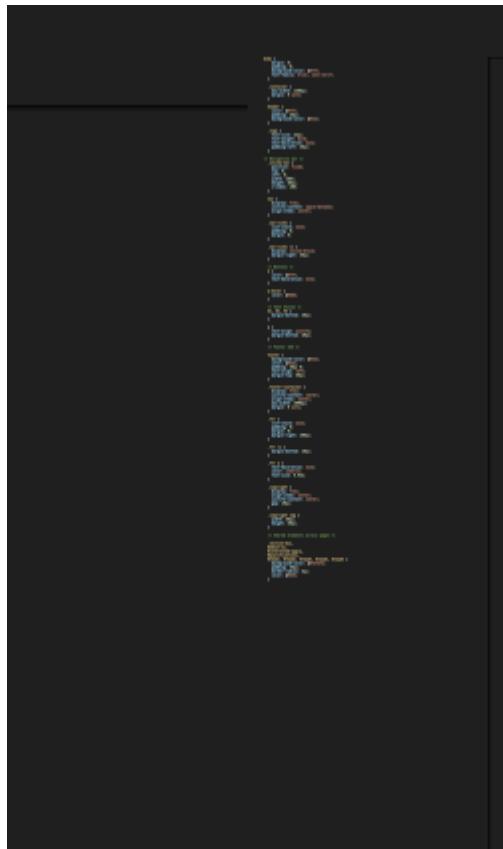
homepage.css:

- Hero section styles
- Key features styles
- Specific styles for sections unique to home page form-style.css:
- Application form styles teampage.css:
- Team members styles
- Specific styles for sections unique to team page

Unoptimised CSS file



Optimised CSS file



Evaluate the optimised website against client requirements

Following the optimisations to the website, the designs and website now adhere to all client requirements and user needs. The user-friendliness is further enhanced by the maintainability of the code. The code optimisation stands out as it impacts maintainability and performance significantly. Redundant or unused CSS has been removed, and repeated CSS has been condensed and shared efficiently across elements. The CSS stylesheet has been split into separate files:

- styles.css: Encompasses all pages and styles common elements
- teampage.css: Applies specifically to the team page
- homepage.css: Applies specifically to the home page
- form-style.css: Manages styles for the application form

This organisation not only improves code maintainability but also allows for targeted modifications without affecting other pages or functionalities, making the website much easier to update. Furthermore, the CSS incorporates comments labelling sections which improve the clarity of the code and maintainability for future development- other developers will be able to read the comments and better understand the code. The HTML also includes ALT text for all images, improving accessibility.

To conclude, the optimised website with its maintainable code, user-friendly design and comprehensive content now align with the complete list of client/user requirements that had been outlined. That being said, the website could still benefit from testing for functionality, compatibility, and usability.

Demonstrate individual responsibility, creativity and effective self-management in the design, development, and review of a website

By making a Gantt chart using Mermaid as a creative way to plan and track my progress throughout the design, development and review of the website, I was able to take an more organised approach to the project and manage my time effectively, sharing my workload across a manageable schedule. There were aspects of the assignment that required more time to work on than I'd originally planned for, but I was able to complete those tasks while simultaneously beginning to work on others, overlapping them with ease. For the most part, I met my targets as I had planned them in the Gantt chart.

Although I faced issues with committing changes to my repository from my home PC due to my unfamiliarity with the way GitHub works, I researched to brush up on my knowledge of it and was able to solve this problem (by cloning my repository). This might seem simple, but it was a notable learning curve for me. On GitHub I have also tracked issues that I came across in the development of my website, finding solutions to each one and closing them with detailed comments.