

Unit 15

[[toc]]

Assignment 2

Website

[Hot Beans Web](#)

File Structure

```
|── assets  
|   ├── css  
|   ├── img  
|   └── js  
├── docs  
└── src
```

To-Do List

- Create Client Requirements 01/02/2024
- Create storyboards 02/02/2024-05/02/2024
- Create website 06/02/2024-12/02/2024
- Usability testing 13/02/2024
- Functionality Testing 13/02/24
- Respond to testing 13/02/16--16/02/24
- Optimisations 17/02/2024
- Evaluation 18/02/24
- Check through 19/02/24 - 28/02/2024
- Deadline 28/02/2024

Requirements

Client Requirements

- Have a company profile
- Have profiles of existing trainee web developers
- Job specifications and required qualifications
- An online application form
- Have links to web development courses

User Requirements

- A website that is accessible

- A website that is easy to use and understand
- A website that is easy to navigate
- A website that is responsive
- A website that loads within a couple of seconds

Developer requirements

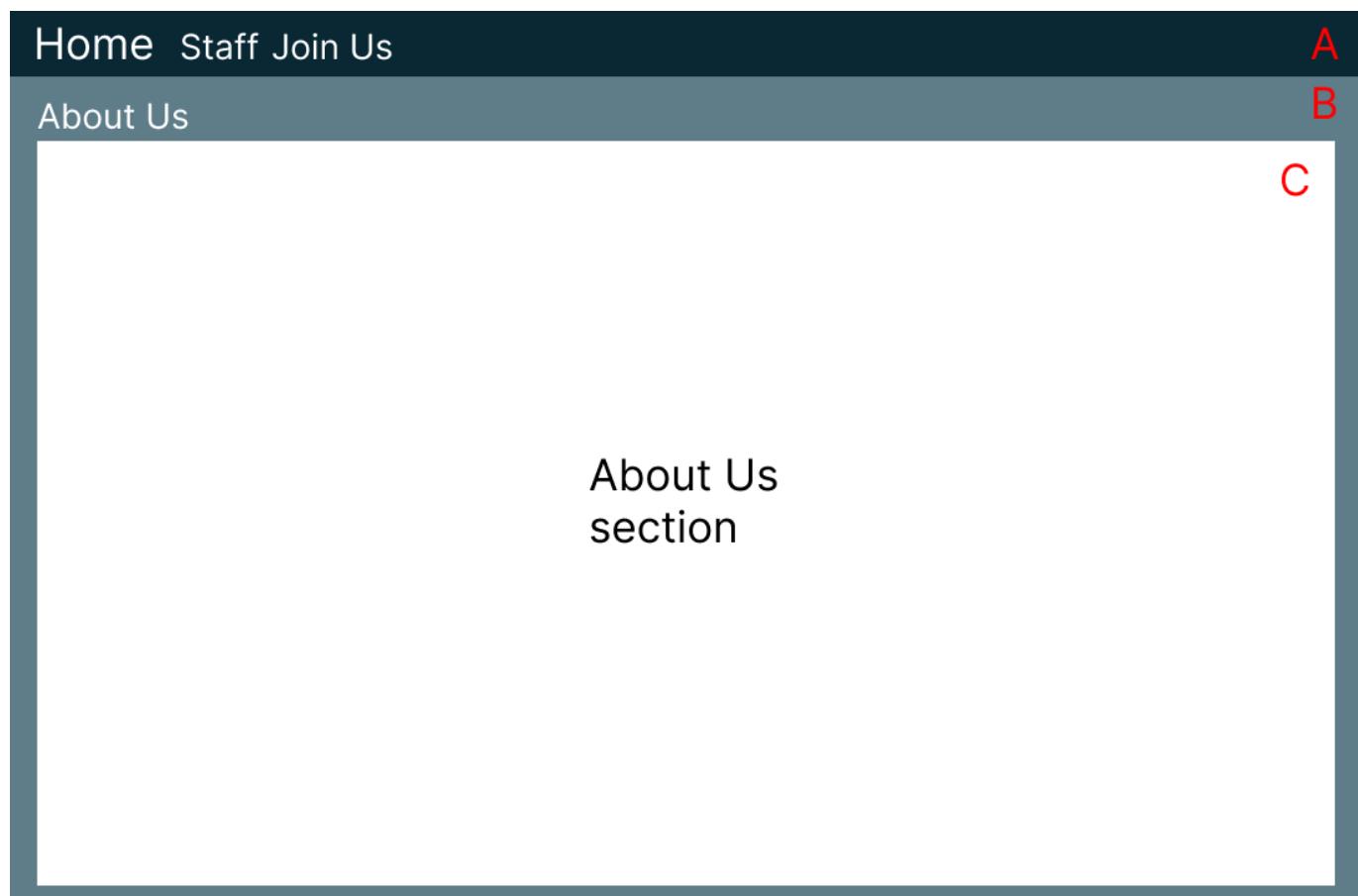
- Code needs to be easy to understand
- Code needs to be easy to maintain

Target Audience

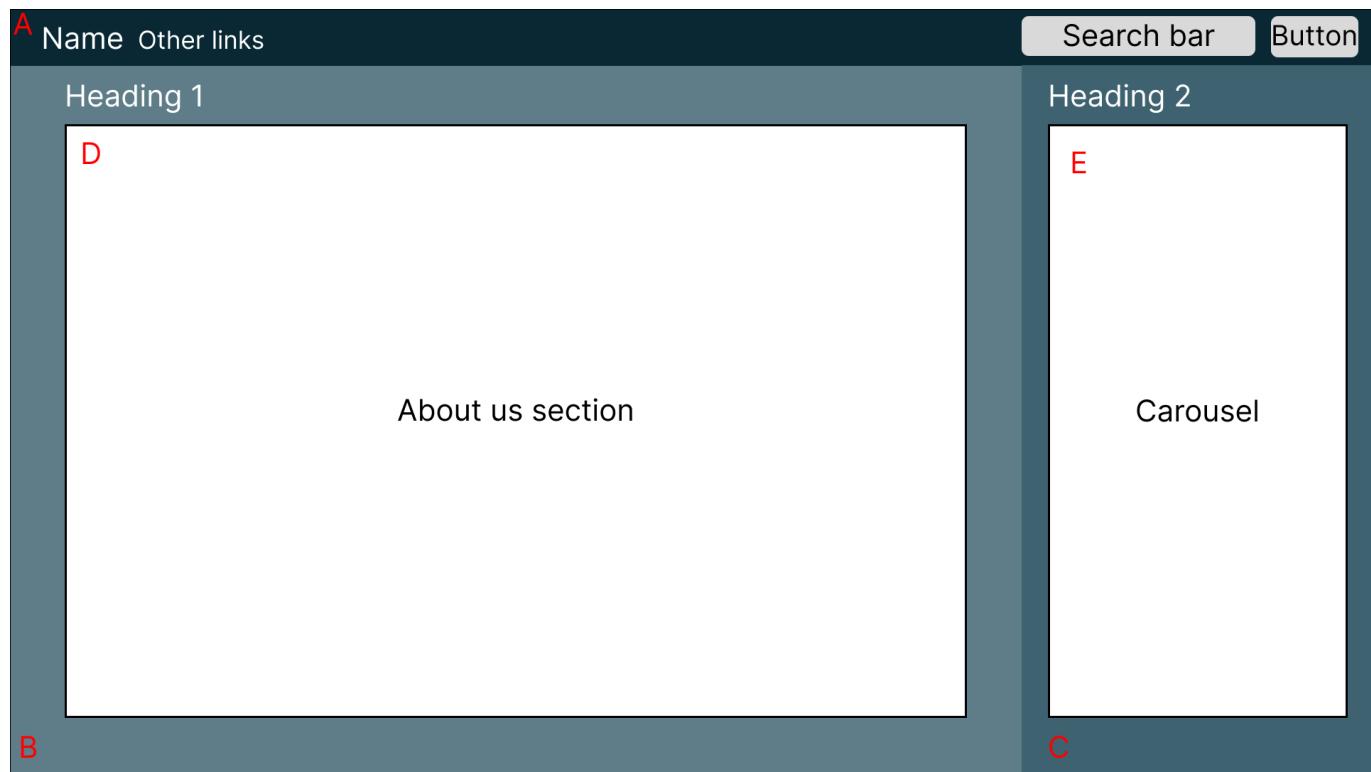
People who have completed training courses or qualifications related to web development and are now looking for a job as a web developer.

Storyboards

Company Profile Alternative Design



Company Profile Design



A Bootstrap Navbar

- #092833
- White text, weight 700
- Width 100% Height 56 pixels
- Will have the company name, links to other pages and a search bar and button
- Bootstraps navbar automatically adjusts its size and layout for smaller screens

B Bootstrap grid column

- #5F7D89
- Bootstrap padding 2, no margins
- heading 1 tags are #ffffff, and use default weights and sizes.
- Size: At and above the bootstrap breakpoint xl it is 8 of 12 columns in width, when it goes below xl it is 12 columns in width. Height 100%.

C Bootstrap grid column

- #3F6270
- Bootstrap padding 2, no margins
- white text, heading 1 use default weights and sizes.
- Size: At and above the bootstrap breakpoint xl it is 4 of 12 columns in width, when it goes below xl it is 12 columns in width. Height 100%.

D Text

- white text, default heading weights and sizes. Paragraphs and list items text changes size depending on screen size, if the screen is 1200px or below the text is 14px, if it is above that it is 17px.

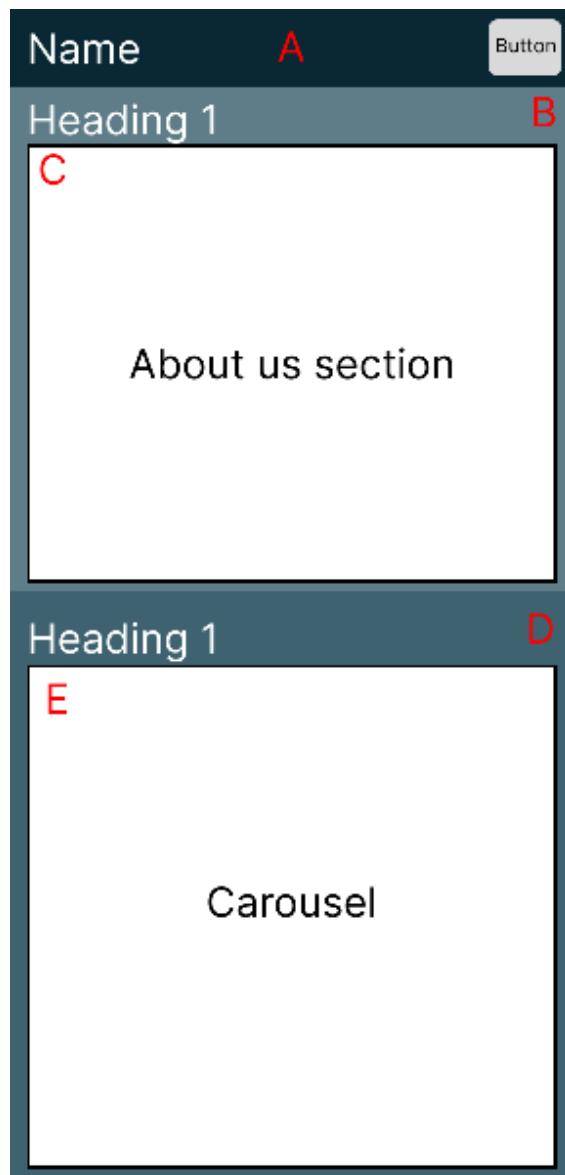
E Carousel with card

- #3F6270 background colour and card colour.
- default bootstrap card sizes
- white text, default heading weights and sizes. Paragraphs and list items text changes size depending on screen size, if the screen is 1200px or below the text is 14px, if it is above that it is 17px.

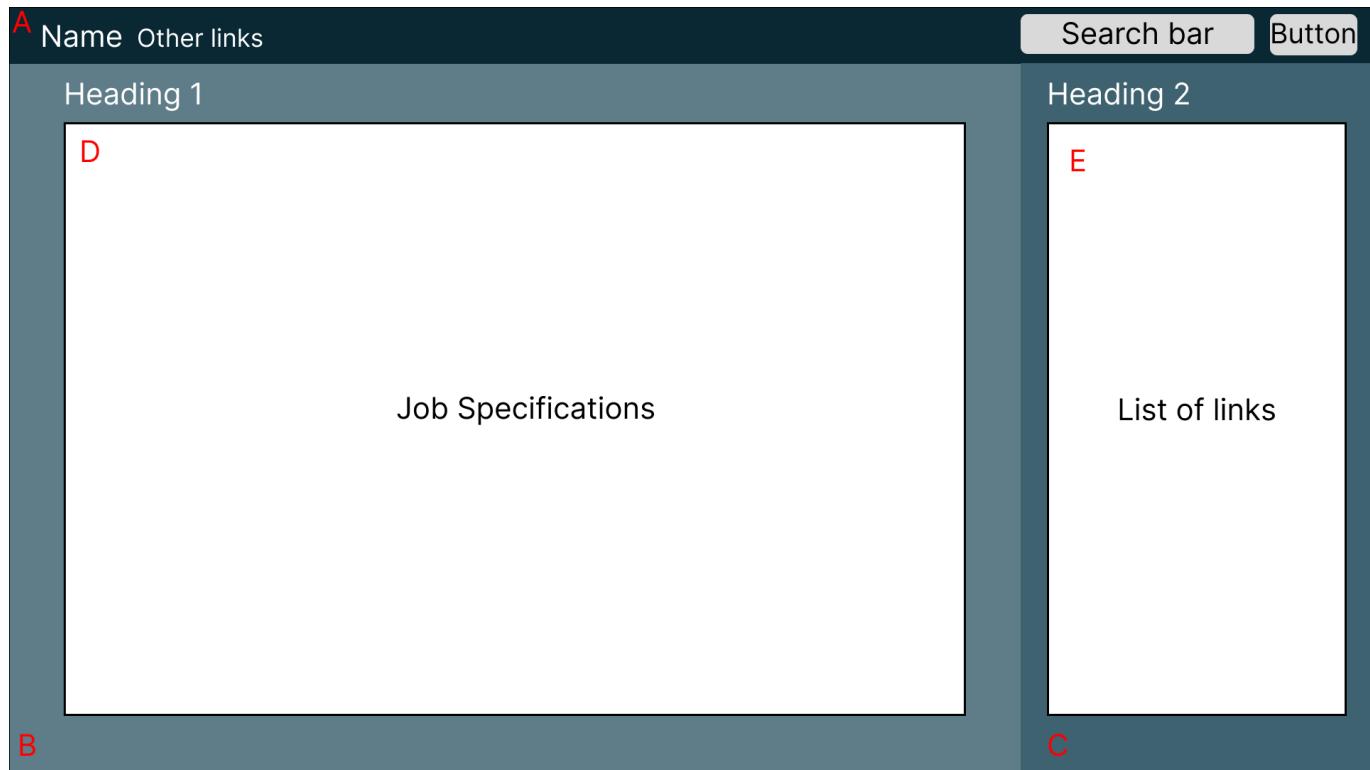
All text will be in the Arial font and should it not be available then Helvetica, or sans-serif fonts.

I decided to go with design two for my website because, for the first design, I would have had to create a separate page for the staff according to client requirements. I also like this design because of the added navigation capabilities like the search bar, which makes the site easier to navigate.

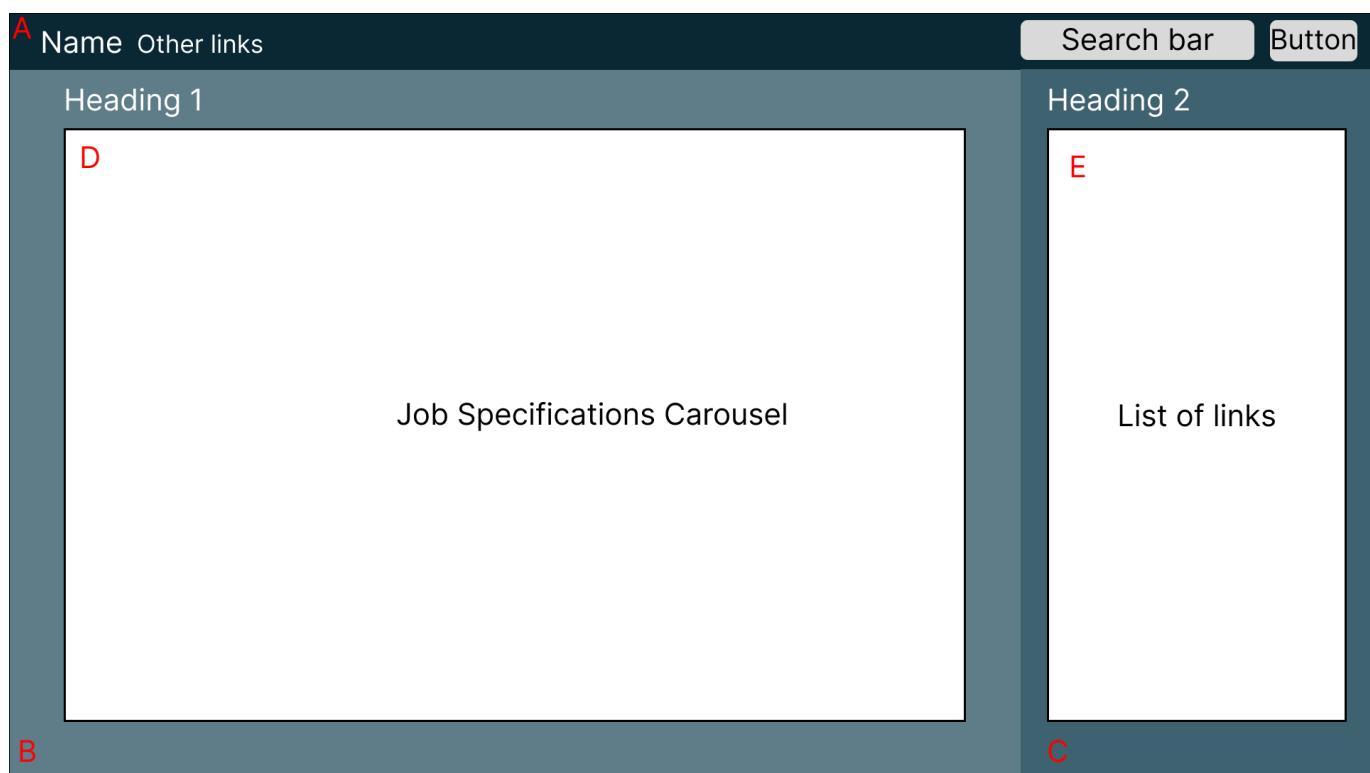
Selected Company Profile Mobile



Join us/Job Spec Page First Design



Join us/Job Spec Page Alternative Design



I decided to go with this design because I changed the job specification section to a carousel because otherwise there would need to be multiple different pages if there were more than one job available, this helps the code be more maintainable by reducing the amount of code. This design also makes the website easier to navigate because there will be fewer pages.

A Bootstrap Navbar

- #092833

- Width 100% Height 56 pixels
- White text, weight 700
- Will have the company's name, links to other pages and a search bar and button.
- Bootstraps navbar automatically adjusts its size and layout for smaller screens.

B Bootstrap Grid column

- #5F7D89
- Bootstrap padding 2, no margins
- heading 1 tags are #ffffff, and use default weights and sizes.
- Size: At and above the bootstrap breakpoint xl it is 8 of 12 columns in width, when it goes below xl it is 12 columns in width. Height 100%.

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- #3F6270
- Bootstrap padding 2, no margins
- white text, heading 1 use default weights and sizes.
- Size: At and above the bootstrap breakpoint xl it is 4 of 12 columns in width, when it goes below xl it is 12 columns in width. Height 100%.

D Bootstrap Carousel with card

- #5F7D89 background colour
- #ffffff Card colour
- default bootstrap card sizes
- black text, default heading weights and sizes. Paragraphs and list items text changes size depending on screen size, if the screen is 1200px or below the text is 14px, if it is above that it is 17px.

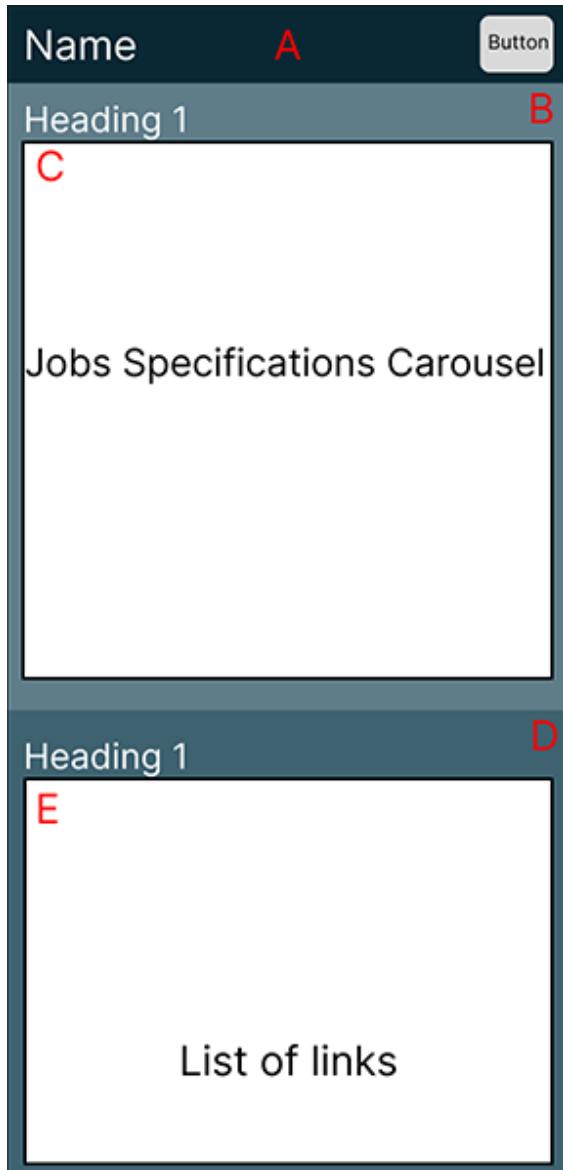
All text will be in the Arial font and should it not be available then Helvetica, or sans-serif fonts.

E Embedded YouTube video links

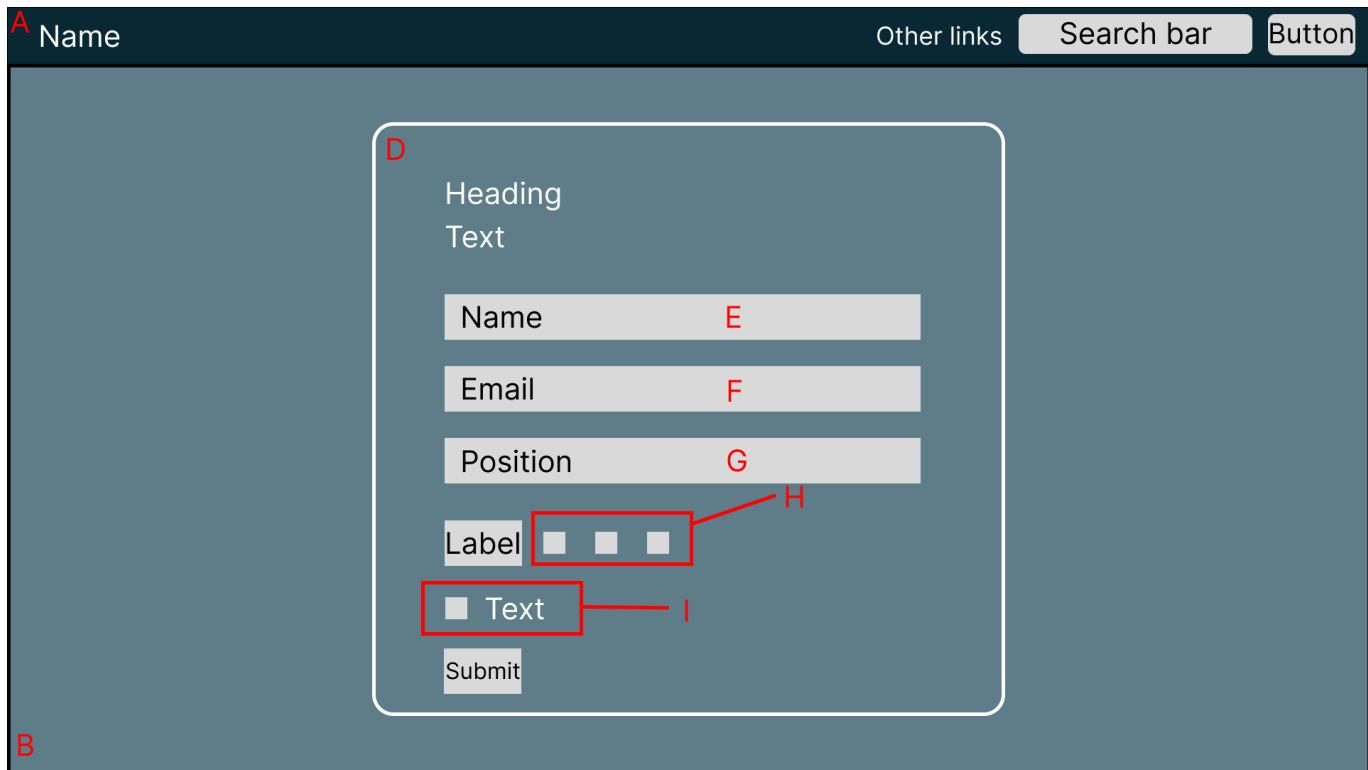
- Three videos
- height 30%, width 100%

Join us/Job Spec Page Mobile Design

This is what it should look like for smaller screen sizes.



Application Form



A Bootstrap navbar

- #092833
- White text, weight 700
- Width 100% Height 56 pixels
- Will have the company's name, links to other pages and a search bar and button.
- Bootstraps navbar automatically adjusts its size and layout for smaller screens.

B Container

- Width 100%, height 100%
- #5F7D89

D Form

- Border: 3px solid #ffffff
- Padding: 40px
- Border Radius: 10px
- Min Width: 540px
- Heading size 28px heading weight 600

E Input

Background Colour: #ffffff Font Size: 15px Font Weight: 300 Width: 100%, Height: auto

F Input

- Background Colour: #ffffff
- Font Size: 15px
- Font Weight: 300

- Width: 100%, Height: auto

G Select Box

- Background Color: #ffffff
- Font Size: 15px
- Font Weight: 300

H Bootstrap Radio Buttons

- Colour: #ffffff

I Confirmation Checkbox

- Colour: #ffffff

Submit Button

- Background Color: #6C757D
- Hover Color: #495056

I chose this design because it keeps everything neat and modern. The input fields, select boxes, and radio buttons all have the same style, which makes them easy to use and looks good. Plus, the form is right in the middle of the page, so it looks balanced and works well on different-sized screens ensuring that it remains visually balanced and accessible across different screen sizes.

Justify design decisions

I believe my designs help meet the requirements.

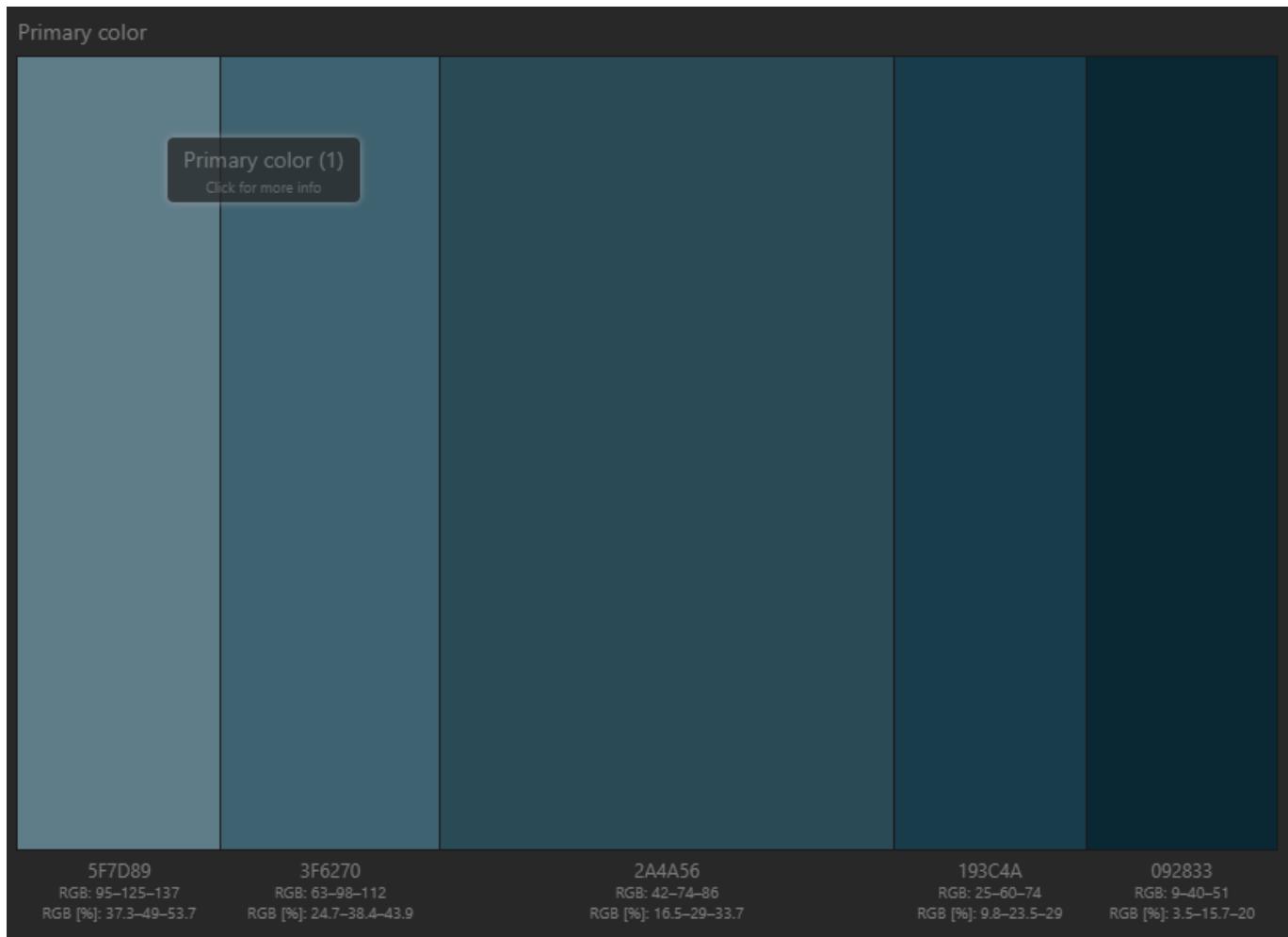
One way they achieve this is with their layout. All the storyboards have a similar layout to ensure consistency, which creates a smoother and more intuitive experience for users. It is simple, with a navigation bar at the top and two sections for content. The only page that does not have this layout is the form page because it does not need it. This provides users with a website that is easy to understand, use, and navigate. The layouts are also responsive, which makes the sites much more accessible to users on other devices like mobile.

The designs make use of Bootstrap components such as carousels and cards, which helps minimize the number of pages needed as per the client's requirements. By leveraging these components, I combined the company profile page with the employee profile pages. This not only reduces the overall amount of code but also enhances maintainability for developers.

Another way the designs help meet requirements is with the selected typography and colour scheme.

Colour Scheme

Paletton



- #2A4A56
- #5F7D89
- #3F6270
- #193C4A
- #092833

This colour scheme provides good contrast against light backgrounds, making text and interactive elements easily readable for users with visual impairments, and it is visually distinct, helping users easily distinguish different sections or elements on the website. Overall the selected colour scheme helps meet the accessibility requirements and makes the website easier to use and understand.

Testing the colour scheme using a [contrast checker](#).

The screenshots show the Siegemedia website's contrast ratio analysis tool. Each screenshot displays a background color, a text color, and a calculated contrast ratio. A tooltip provides detailed information about the contrast level.

Screenshot 1: Background: #092833, Text color: white, Contrast Ratio: 15.4. Relative Luminance for background: 0.0181. Relative Luminance for text: 1. Precise contrast: 15.4079. Passes AAA level for any size text and AA for user interface components and graphical objects.

Screenshot 2: Background: #5F7D89, Text color: white, Contrast Ratio: 4.39. Relative Luminance for background: 0.1891. Relative Luminance for text: 1. Precise contrast: 4.3921. Passes AA for large text (above 18pt or bold above 14pt) and AA for user interface components and graphical objects.

Screenshot 3: Background: #3F6270, Text color: white, Contrast Ratio: 6.57. Relative Luminance for background: 0.1096. Relative Luminance for text: 1. Precise contrast: 6.5781. Passes AA level for any size text, AAA for large text (above 18pt or bold above 14pt), and AA for user interface components and graphical objects.

Typography

The font I have selected for the website is Arial because it was designed for readability, making it accessible to a wide range of audiences, including those with visual impairments. It is also a web-safe font, meaning it is commonly pre-installed on most computers and devices. In summary, the chosen typography aids in meeting

accessibility requirements and enhances the website's usability and clarity. If the Arial font is not available I have selected fallbacks with the same benefits as Arial. Helvetica is my second fallback since it is also easy to read, versatile, and web-safe. If that is not available then I'll go with sans-serif, since it has the same benefits as Arial and Helvetica.

Testing

Functionality & Compatibility Testing

To test my website I will make sure all my links, buttons and interactive features work. To do this I will go through and check all links, buttons and interactive features and record the results. To test the website's compatibility I will use it on multiple browsers and devices.

Functionality & Compatibility Testing Results

Company Profile Page

	Navigation links	Search Bar	Search Button	Carousel Previous button	Carousel Next button
Works as intended	✓	X	X	✓	✓

Join Us Page

	Navigation links	Search Bar	Search Button	Carousel Next button	Video Links	Apply Button
Works as intended	✓	X	X	✓	✓	✓

Form Page

	Navigation links	Search Bar	Search Button	Name Input	Email Input	Position selection	Radio Buttons	CheckBox	Submit
Works as intended	✓	X	X	✓	✓	✓	✓	✓	✓

Performance test

Using [Lighthouse](#) we can see that the website loads within a few seconds meeting client requirements.

URL
https://430058hotbeansweb.netlify.app

State Device Version Request Time
● succeeded Mobile 10.4.0 1 minute ago

Performance Scores

View Lighthouse Performance scores across all regions

 US West us-west1	98 / 100	FCP: 1.8s LCP: 2.1s TBT: 0ms
 US East us-east4	98 / 100	FCP: 1.6s LCP: 2s TBT: 0ms
 Finland europe-north1	97 / 100	FCP: 1.9s LCP: 2.2s TBT: 0ms
 Germany europe-west3	97 / 100	FCP: 1.9s LCP: 2.1s TBT: 0ms
 Japan asia-northeast1	95 / 100	FCP: 2.2s LCP: 2.5s TBT: 0ms
 Australia australia-southeast1	97 / 100	FCP: 1.8s LCP: 2.2s TBT: 0ms

Performance Metrics

Inspect each metric that leads to the performance score

						
First Contentful Paint	1.9s	1.6s	2s	1.9s	2.3s	1.8s
Speed Index	1.9s	1.6s	2s	1.9s	2.9s	1.8s
Largest Contentful Paint	2.1s	2s	2.1s	2s	2.6s	2.2s
Total Blocking Time	0ms	0ms	0ms	0ms	0ms	0ms
Cumulative Layout Shift	0	0	0	0	0	0

Form Validation

Register Today

Fill in the data below.

Full Name !

Username field cannot be blank!

E-mail Address !

Email field cannot be blank!

Position ! ▾

Please select a position!

Gender: Male Female Secret

Please select a gender!

I confirm that all data is correct

Please confirm that the data entered is all correct!

Register

The fields can't be blank.

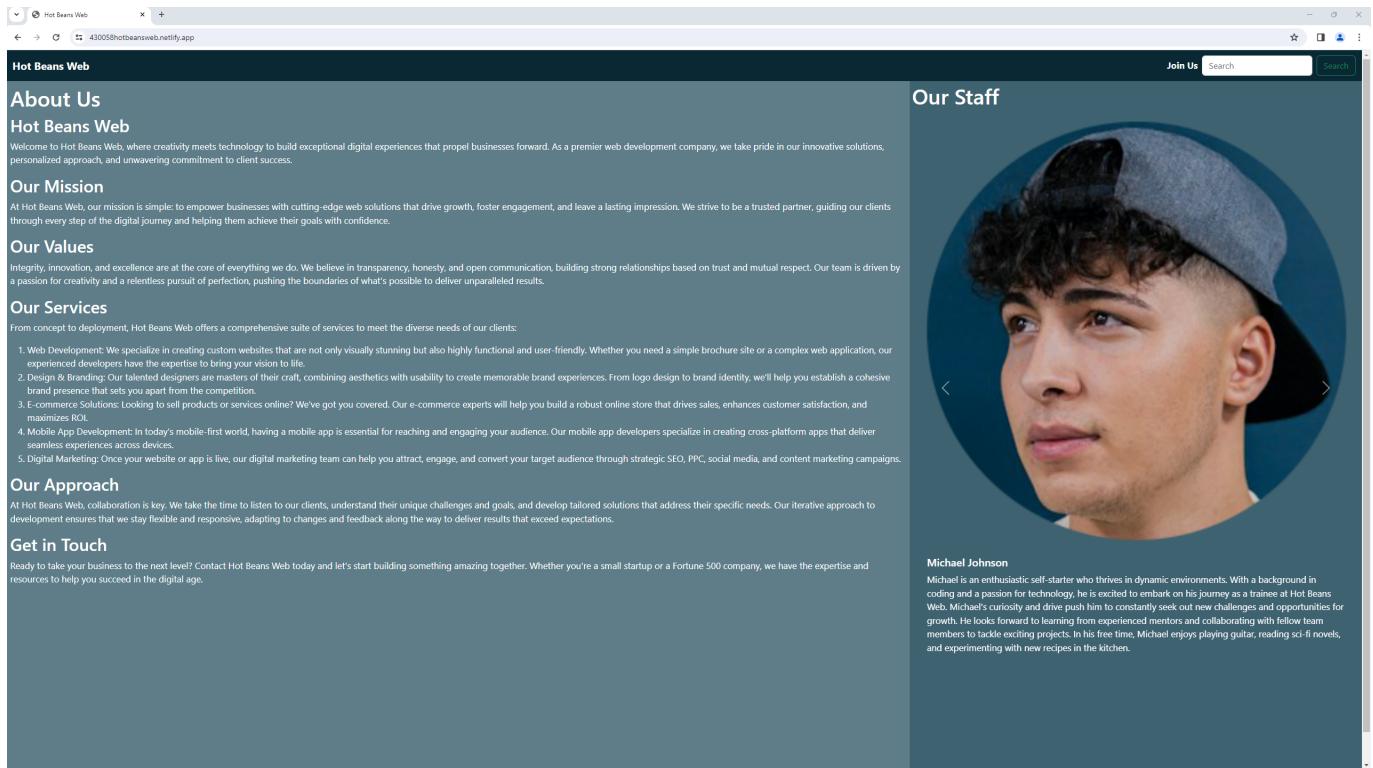
Susan31@gmail.com ✓

Email field is valid!

Email Input must be an email to be valid.

Browser test

Chrome



About Us
Hot Beans Web

Welcome to Hot Beans Web, where creativity meets technology to build exceptional digital experiences that propel businesses forward. As a premier web development company, we take pride in our innovative solutions, personalized approach, and unwavering commitment to client success.

Our Mission
At Hot Beans Web, our mission is simple: to empower businesses with cutting-edge web solutions that drive growth, foster engagement, and leave a lasting impression. We strive to be a trusted partner, guiding our clients through every step of the digital journey and helping them achieve their goals with confidence.

Our Values
Integrity, innovation, and excellence are at the core of everything we do. We believe in transparency, honesty, and open communication, building strong relationships based on trust and mutual respect. Our team is driven by a passion for creativity and a relentless pursuit of perfection, pushing the boundaries of what's possible to deliver unparalleled results.

Our Services
From concept to deployment, Hot Beans Web offers a comprehensive suite of services to meet the diverse needs of our clients:

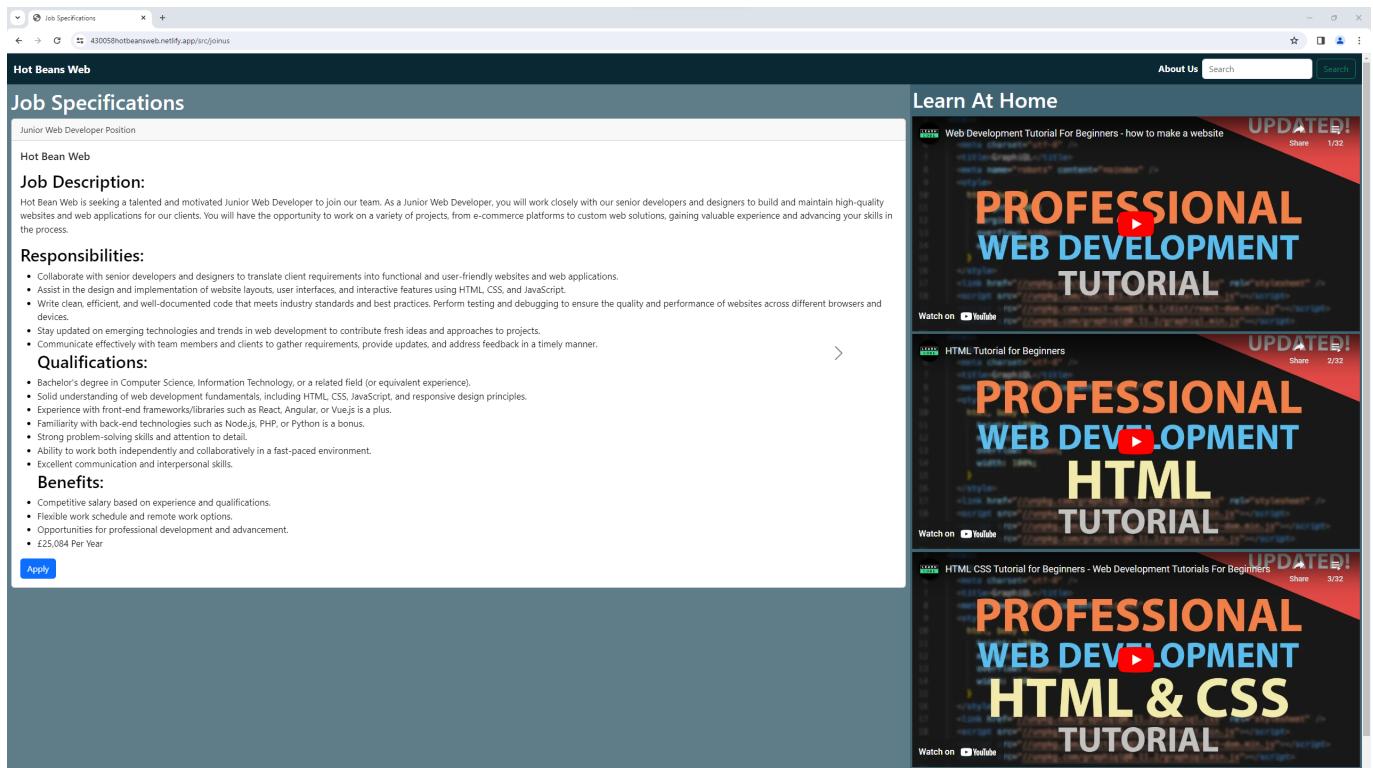
1. Web Development: We specialize in creating custom websites that are not only visually stunning but also highly functional and user-friendly. Whether you need a simple brochure site or a complex web application, our experienced developers have the expertise to bring your vision to life.
2. Design & Branding: Our talented designers are masters of their craft, combining aesthetics with usability to create memorable brand experiences. From logo design to brand identity, we'll help you establish a cohesive brand presence that sets you apart from the competition.
3. E-commerce Solutions: Looking to sell products or services online? We've got you covered. Our e-commerce experts will help you build a robust online store that drives sales, enhances customer satisfaction, and maximizes ROI.
4. Mobile App Development: In today's mobile-first world, having a mobile app is essential for reaching and engaging your audience. Our mobile app developers specialize in creating cross-platform apps that deliver seamless experiences across devices.
5. Digital Marketing: Once your website or app is live, our digital marketing team can help you attract, engage, and convert your target audience through strategic SEO, PPC, social media, and content marketing campaigns.

Our Approach
At Hot Beans Web, collaboration is key. We take the time to listen to our clients, understand their unique challenges and goals, and develop tailored solutions that address their specific needs. Our iterative approach to development ensures that we stay flexible and responsive, adapting to changes and feedback along the way to deliver results that exceed expectations.

Get in Touch
Ready to take your business to the next level? Contact Hot Beans Web today and let's start building something amazing together. Whether you're a small startup or a Fortune 500 company, we have the expertise and resources to help you succeed in the digital age.

Our Staff


Michael Johnson
Michael is an enthusiastic self-starter who thrives in dynamic environments. With a background in coding and a passion for technology, he is excited to embark on his journey as a trainee at Hot Beans Web. Michael's curiosity and drive push him to constantly seek out new challenges and opportunities for growth. He looks forward to learning from experienced mentors and collaborating with fellow team members to tackle exciting projects. In his free time, Michael enjoys playing guitar, reading sci-fi novels, and experimenting with new recipes in the kitchen.



Job Specifications
Junior Web Developer Position

Hot Bean Web

Job Description:
Hot Bean Web is seeking a talented and motivated Junior Web Developer to join our team. As a Junior Web Developer, you will work closely with our senior developers and designers to build and maintain high-quality websites and web applications for our clients. You will have the opportunity to work on a variety of projects, from e-commerce platforms to custom web solutions, gaining valuable experience and advancing your skills in the process.

Responsibilities:

- Collaborate with senior developers and designers to translate client requirements into functional and user-friendly websites and web applications.
- Assist in the design and implementation of website layouts, user interfaces, and interactive features using HTML, CSS, and JavaScript.
- Write clean, efficient, and well-documented code that meets industry standards and best practices. Perform testing and debugging to ensure the quality and performance of websites across different browsers and devices.
- Stay updated on emerging technologies and trends in web development to contribute fresh ideas and approaches to projects.
- Communicate effectively with team members and clients to gather requirements, provide updates, and address feedback in a timely manner.

Qualifications:

- Bachelor's degree in Computer Science, Information Technology, or a related field (or equivalent experience).
- Solid understanding of web development fundamentals, including HTML, CSS, JavaScript, and responsive design principles.
- Experience with front-end frameworks/libraries such as React, Angular, or Vue.js is a plus.
- Familiarity with back-end technologies such as Node.js, PHP, or Python is a bonus.
- Strong problem-solving skills and attention to detail.
- Ability to work both independently and collaboratively in a fast-paced environment.
- Excellent communication and interpersonal skills.

Benefits:

- Competitive salary based on experience and qualifications.
- Flexible work schedule and remote work options.
- Opportunities for professional development and advancement.
- £25,084 Per Year

Learn At Home

Web Development Tutorial For Beginners - how to make a website UPDATED! Share 1/22

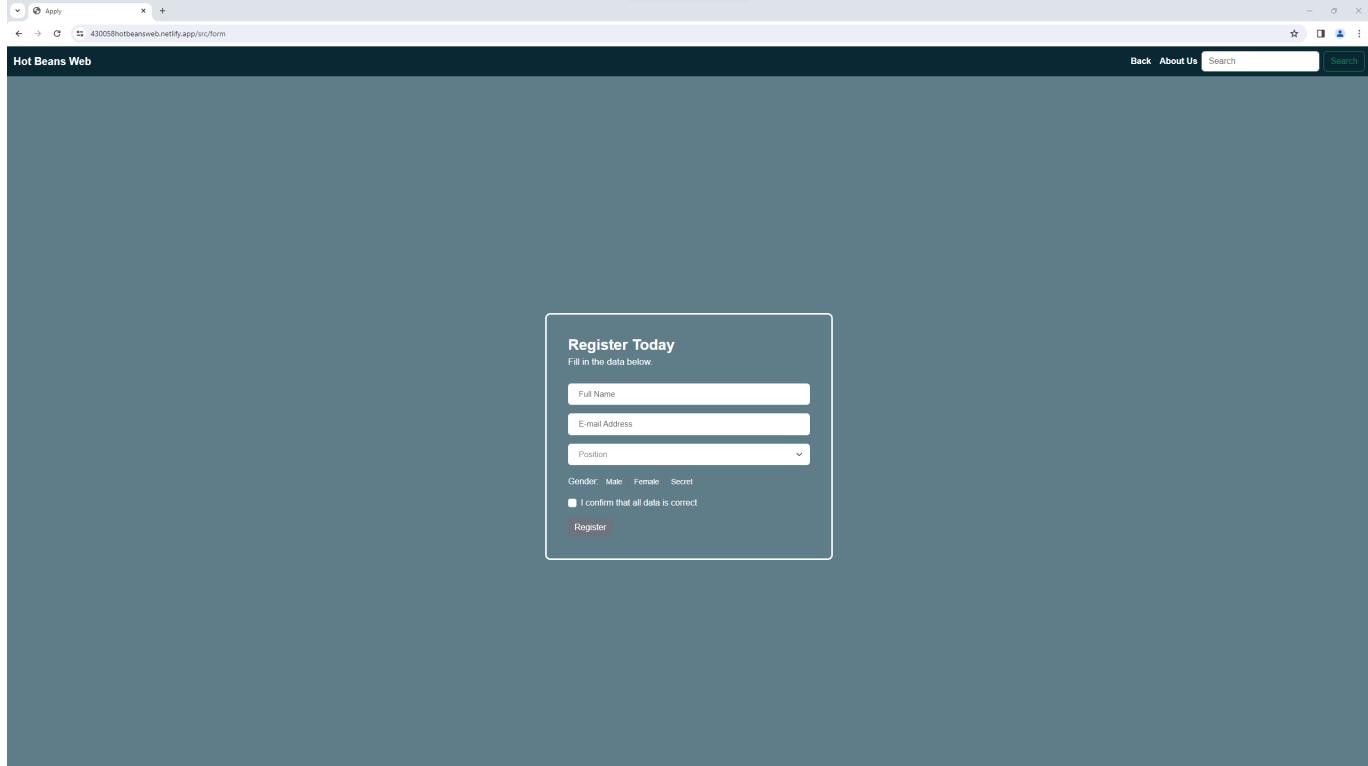
PROFESSIONAL WEB DEVELOPMENT TUTORIAL Watch on YouTube

HTML Tutorial for Beginners UPDATED! Share 2/32

PROFESSIONAL WEB DEVELOPMENT HTML TUTORIAL Watch on YouTube

HTML CSS Tutorial for Beginners - Web Development Tutorials For Beginners UPDATED! Share 3/32

PROFESSIONAL WEB DEVELOPMENT HTML & CSS TUTORIAL Watch on YouTube



The website works as expected on Chrome.

Microsoft Edge

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1. Web Development: We specialize in creating custom websites that are not only visually stunning but also highly functional and user-friendly. Whether you need a simple brochure site or a complex web application, our experienced developers have the expertise to bring your vision to life.
2. Design & Branding: Our talented designers are masters of their craft, combining aesthetics with usability to create memorable brand experiences. From logo design to brand identity, we'll help you establish a cohesive brand presence that sets you apart from the competition.
3. E-commerce Solutions: Looking to sell products or services online? We've got you covered. Our e-commerce experts will help you build a robust online store that drives sales, enhances customer satisfaction, and maximizes ROI.
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The screenshot shows a Microsoft Edge browser window. On the left, a job specification page for a 'Web Project Manager' is displayed under the heading 'Job Specifications'. It includes sections for 'Job Description', 'Qualifications', and 'Benefits', each with a bulleted list of requirements. A blue 'Apply' button is at the bottom. On the right, there are three vertical video thumbnails from YouTube, all titled 'PROFESSIONAL WEB DEVELOPMENT TUTORIAL'. The first is for 'Web Development Tutorial For Beginners - how to make a website', the second for 'HTML Tutorial for Beginners', and the third for 'HTML CSS Tutorial for Beginners - Web Development Tutorials For Beginners'. Each thumbnail shows a play button and a progress bar indicating 1/32, 2/32, and 3/32 respectively.

The screenshot shows a Microsoft Edge browser window. The URL is https://430058hotbeansweb.netlify.app/src/form. The page has a dark header with 'Hot Beans Web' and navigation links. Below the header is a large, centered registration form with a white background and a black border. The form is titled 'Register Today' and contains the instruction 'Fill in the data below.' It has three input fields: 'Full Name', 'E-mail Address', and 'Position'. Underneath these is a gender selection section with radio buttons for 'Male', 'Female', and 'Secret'. There is also a checkbox for 'I confirm that all data is correct'. At the bottom of the form is a red 'Register' button.

The website works as expected on Microsoft Edge.

Device

Phone

Company Profile Page

Navigation links	Search Bar	Search Button	Carousel Previous button	Carousel Next button
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	Navigation links	Search Bar	Search Button	Carousel Previous button	Carousel Next button
Works as intended	✓	X	X	✓	✓

Join Us Page

	Navigation links	Search Bar	Search Button	Carousel Next button	Video Links	Apply Button
Works as intended	✓	X	X	✓	✓	✓

Form Page

	Navigation links	Search Bar	Search Button	Name Input	Email Input	Position selection	Radio Buttons	Check Box	Submit
Works as intended	✓	X	X	✓	✓	✓	✓	✓	✓

15:28 Hot Beans Web 430058hotbeansweb.netlify.app

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15:31 Job Specifications 430058hotbeansweb.netlify.app

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15:29 Apply 430058hotbeansweb.netlify.app

Hot Beans Web

Register Today

Fill in the data below.

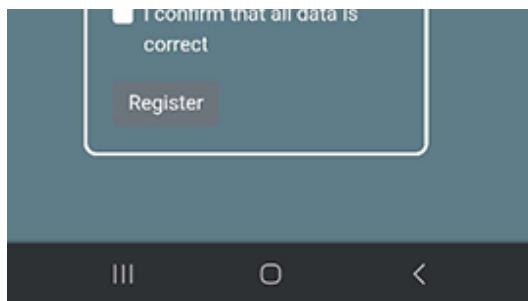
Full Name

E-mail Address

Position

Gender: Male Female

Secret



Desktop Computer

[Here](#)

Usability Testing

To test this I let peers look at the website to provide feedback.

Mitchell Aldrich

"The overall layout and design of the website is great and seems very professional and organized. However, one improvement I picked out is to edit the headers of the different positions in the job specifications to make them more noticeable since at first I didn't notice they were there".

Nojus Timofejevas

"The Navbar looks really clean and professional, and I love how they've used a carousel for extra info without it being distracting. But, when you're trying to apply, there's no place to upload your CV or any other files. Also, it's kind of hard to see the gender selection and submit buttons when you hover over them."

Respond to feedback

Mitchell provided feedback indicating that the job positions were not easily discernible, which contradicts the requirements set by my client. To address this issue, I enclosed the job positions with an h1 tag and applied black styling to enhance their visibility.

Nojus has said that there is no place to upload your CV to the website. In response to this, I have added a place to upload files to the form using Bootstrap. I also agree that the gender selection and submit buttons are hard to see so in response I have changed their colours to #092833 and #193C4A.

Optimisations

Before

Hot Beans Web

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1. Web Development: We specialize in creating custom websites that are not only visually stunning but also highly functional and user-friendly. Whether you need a simple brochure site or a complex web application, our experienced developers have the expertise to bring your vision to life.
2. Design & Branding: Our talented designers are masters of their craft, combining aesthetics with usability to create memorable brand experiences. From logo design to brand identity, we'll help you establish a cohesive brand presence that sets you apart from the competition.
3. E-commerce Solutions: Looking to sell products or services online? We've got you covered. Our e-commerce experts will help you build a robust online store that drives sales, enhances customer satisfaction, and maximizes ROI.
4. Mobile App Development: In today's mobile-first world, having a mobile app is essential for reaching and engaging your audience. Our mobile app developers specialize in creating cross-platform apps that deliver seamless experiences across devices.
5. Digital Marketing: Once your website or app is live, our digital marketing team can help you attract, engage, and convert your target audience through strategic SEO, PPC, social media, and content marketing campaigns.

Our Approach

At Hot Beans Web, collaboration is key. We take the time to listen to our clients, understand their unique challenges and goals, and develop tailored solutions that address their specific needs. Our iterative approach to development ensures that we stay flexible and responsive, adapting to changes and feedback along the way to deliver results that exceed expectations.

Our Staff



Michael Johnson

Michael is an enthusiastic self-starter who thrives in dynamic environments. With a background in coding and a passion for technology, he is excited to embark on his journey as a trainee at Hot Beans Web. Michael's curiosity and drive push him to constantly seek out new challenges and opportunities for growth. He looks forward to learning from experienced mentors and collaborating with fellow team members to tackle exciting projects. In his free time, Michael enjoys playing guitar, reading sci-fi novels, and experimenting with new recipes in the kitchen.

Hot Beans Web

Job Specifications

Junior Web Developer Position

Hot Bean Web

Job Description:

Hot Bean Web is seeking a talented and motivated Junior Web Developer to join our team. As a Junior Web Developer, you will work closely with our senior developers and designers to build and maintain high-quality websites and web applications for our clients. You will have the opportunity to work on a variety of projects, from e-commerce platforms to custom web solutions, gaining valuable experience and advancing your skills in the process.

Responsibilities:

- Collaborate with senior developers and designers to translate client requirements into functional and user-friendly websites and web applications.
- Assist in the design and implementation of website layouts, user interfaces, and interactive features using HTML, CSS, and JavaScript.
- Write clean, efficient, and well-documented code that meets industry standards and best practices. Perform testing and debugging to ensure the quality and performance of websites across different browsers and devices.
- Stay updated on emerging technologies and trends in web development to contribute fresh ideas and approaches to projects.
- Communicate effectively with team members and clients to gather requirements, provide updates, and address feedback in a timely manner.

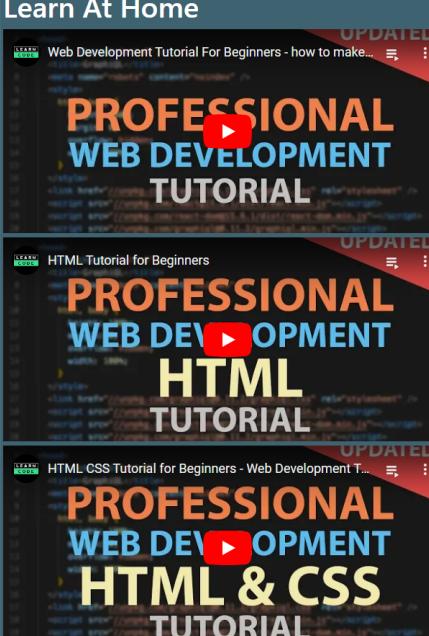
Qualifications:

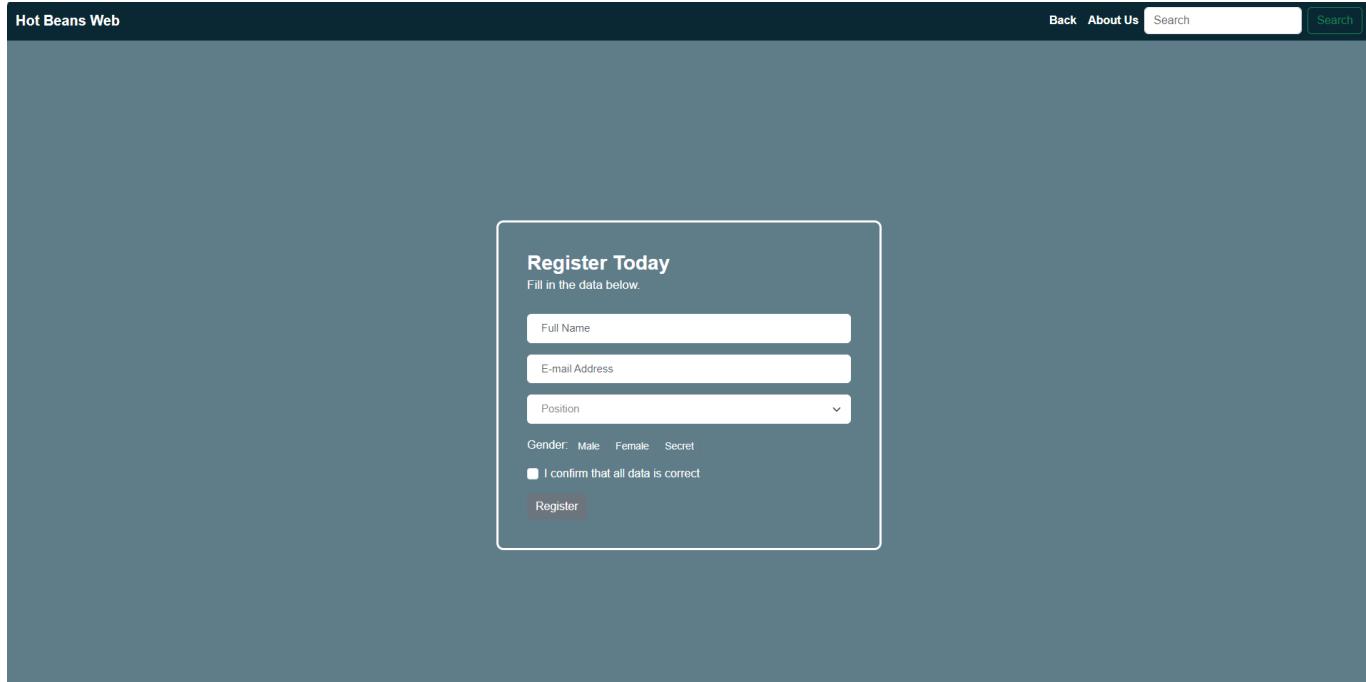
- Bachelor's degree in Computer Science, Information Technology, or a related field (or equivalent experience).
- Solid understanding of web development fundamentals, including HTML, CSS, JavaScript, and responsive design principles.
- Experience with front-end frameworks/libraries such as React, Angular, or Vue.js is a plus.
- Familiarity with back-end technologies such as Node.js, PHP, or Python is a bonus.
- Strong problem-solving skills and attention to detail.
- Ability to work both independently and collaboratively in a fast-paced environment.
- Excellent communication and interpersonal skills.

Benefits:

- Competitive salary based on experience and qualifications.
- Flexible work schedule and remote work options.
- Opportunities for professional development and advancement.
- £25,084 Per Year

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After

Job Specifications

Junior Web Developer Position Larger text

Hot Bean Web

Job Description:

Hot Bean Web is seeking a talented and motivated Junior Web Developer to join our team. As a Junior Web Developer, you will work closely with our senior developers and designers to build and maintain high-quality websites and web applications for our clients. You will have the opportunity to work on a variety of projects, from e-commerce platforms to custom web solutions, gaining valuable experience and advancing your skills in the process.

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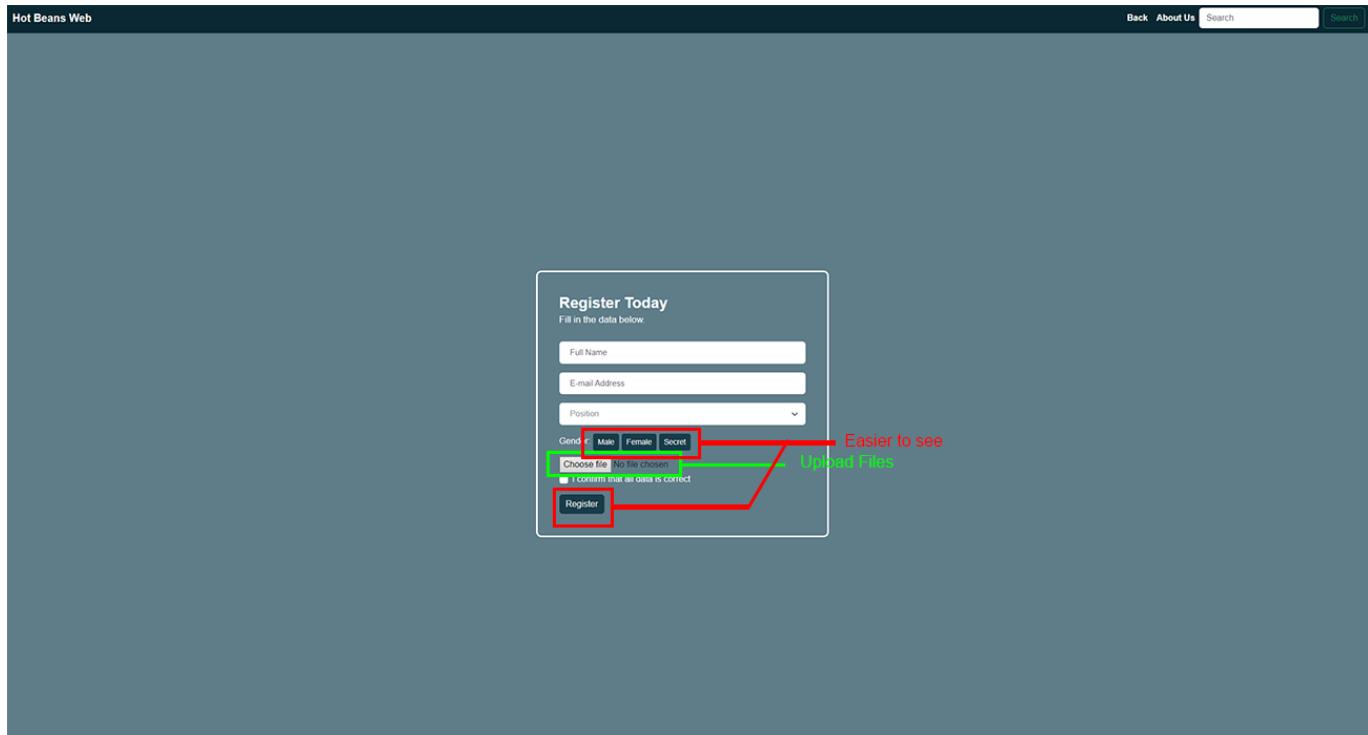
Benefits:

- Competitive salary based on experience and qualifications.
- Flexible work schedule and remote work options.
- Opportunities for professional development and advancement.
- £25,004 Per Year

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Write an evaluation of the design, development, and optimisation of the website

Design

I believe my website design meets the requirements, effectively appeals to the target audience and meets its stated purpose.

One way it does this is with the chosen colour scheme, which provides excellent contrast against light backgrounds, which was proven with [testing](#), ensuring that text and interactive elements remain easily readable for users, including those with visual impairments.

Secondly, the typography selected not only meets accessibility requirements but also significantly enhances the website's usability and clarity. Throughout the site, clear and legible fonts are used and ensure effortless reading across diverse devices and screen sizes. This enhances user experience and makes navigation intuitive for all visitors.

Furthermore, the website's layout is intuitive and user-friendly, allowing visitors to navigate seamlessly between pages with ease. Consistent navigation elements, such as navigation bars and links, guide users through the site and encourage interaction.

Additionally, the page performs well. Testing the website using [lighthouse-metrics](#), we can see that the page's [First Contentful Paint](#), [Speed Index](#), [Largest Contentful Paint](#), [Total Blocking Time](#), and [Cumulative Layout Shift](#) all meet the requirements.

Finally, the responsive design ensures accessibility on a range of devices, providing a consistent and optimized experience for users regardless of whether they are accessing the website on a desktop computer, tablet, or mobile phone. This adaptability not only caters to the diverse preferences of the target audience but also reinforces the website's usability and accessibility, enhancing overall user satisfaction and engagement.

Development

Throughout the development process, I prioritised code clarity and comprehensibility, so I made sure my code was well documented by using comments that described its purpose. This approach not only aids in understanding during the development phase but also lays a strong foundation for future modifications, ensuring the website remains adaptable and easily maintainable.

```
<body>
  <!-- Navigation bar -->
  <nav class="navbar navbar-expand-lg sticky-top navbar-dark navbar-custom">
    <div class="container-fluid">
      <!-- Brand/logo -->
      <a class="navbar-brand" href="#">../index.html>Hot Beans Web</a>
      <!-- Navbar-toggler for collapsing in smaller screens -->
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav"
        aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">
        <span class="navbar-toggler-icon"></span>
      </button>
      <!-- Navbar content -->
      <div class="collapse navbar-collapse" id="navbarNav">
        <!-- Right-aligned navigation links -->
        <ul class="navbar-nav ms-auto">
          <!-- About Us link -->
          <li class="nav-item">
            <a class="nav-link" href="#">../index.html>About Us</a>
          </li>
        </ul>
        <!-- Search form -->
        <form class="d-flex" role="search">
          <!-- Search input field -->
        </form>
      </div>
    </div>
  </nav>
```

In pursuit of maintainability, I decided to make the codebase smaller. By merging pages during the design phase, I reduced redundancy and complexity, resulting in a more concise and manageable codebase. Additionally, using the Bootstrap framework provided a robust set of pre-built components and styling variables, fostering consistency and efficiency in development and maintenance tasks.

Moreover, employing a version control system, such as GitHub, was helpful in managing changes to the codebase. GitHub's robust features allowed me to track revisions, and seamlessly revert to prior versions when necessary. This meticulous approach to version control ensures a reliable history of changes, facilitating thorough review and approval processes, and ultimately contributing to the long-term maintainability of the project.

Optimisation

After completing the development phase, I conducted thorough testing to ensure the website's performance and functionality met expectations. While the results of the testing indicated good performance overall, there are areas that require improvement.

Functionality testing revealed that the interactive features on all pages were functional as intended. However, it was identified that the search bar and button were not operating correctly. This issue was anticipated, and I will provide further details on addressing it later in this evaluation.

Performance testing indicated that the website met the necessary performance requirements, which is a positive outcome.

Form validation testing revealed that while the form functioned correctly, there were opportunities for improvement. Specifically, the validation process could be enhanced to ensure that only accurate information is accepted in all fields, providing a smoother user experience.

Compatibility testing across different browsers yielded the expected results, confirming that the website is accessible across various platforms. This wide accessibility enhances the website's reach and user engagement.

Furthermore, testing on different devices demonstrated not only the functionality but also the responsiveness of the website's layout. This responsiveness was a requirement and has been successfully implemented.

My Performance

Throughout this project I made sure to stick to my [plan](#), using this approach has allowed me to complete tasks in a timely manner and work to meet project milestones efficiently and effectively.

While using my plan has allowed me to complete my project I still struggled in some areas.

One area where I encountered difficulties was with the bootstrap carousel. I intended for it to display the employee profiles correctly and in the intended order. However, upon initial loading, I encountered some functionality issues. Although the carousel was inconsistent and non-functional at first, it operated smoothly once users interacted with it.

Another challenge I encountered was with the search bar and button. Ideally, I would have liked to have these features functioning in the first iteration of the webpage. However, I lacked the necessary experience and knowledge to implement them as desired.

In conclusion, the design, development, and optimization of the website have been executed with a focus on meeting requirements, appealing to the target audience, and ensuring functionality and performance. The design effectively incorporates elements such as colour scheme, typography, layout, and responsiveness, enhancing usability and user experience. Development efforts prioritized code clarity, maintainability, and efficiency, resulting in a streamlined codebase and effective version control management. Thorough optimization testing identified areas for improvement, leading to enhancements in functionality, performance, and compatibility across various devices and browsers. While challenges were encountered, proactive problem-solving and dedication to improvement were demonstrated. Overall, the culmination of these efforts has resulted in a website that not only meets client expectations but also contributes to a positive user experience and reinforces the project's objectives.