

# U15A2

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## Statement of user requirements

The considered stakeholder(s) for this project are:

- Hot Beans Web (company)
- Hot Beans Web (training)
- Prospective employees

Hot Beans Web requires a new section of their website created as a part of my training. This means that the website must be able to demonstrate the skills to consider all requirements from a given brief. As a result, part of their requirements will be that the website shows that I have considered all possible stakeholders. This means that possible users of the website must be considered, even if there may not be any. So, prospective employees (the target audience for this site) will be considered a stakeholder and have their own set of requirements – as these may conflict with Hot Beans Web (as a company and as a training team).

Hot Beans Web (training) requires a website that demonstrates:

- A consideration for all possible stakeholders / users. This means showing I am able and have considered the stakeholders of this section of their website as if it was going not be used- and not as if it was just a training exercise. This will include considering the needs of all these stakeholders and their importance to the success of the website.
- An understanding and effective execution of web development techniques. This means making a functional website that works well, including using all the relevant tools within the scope of the project to meet the needs of different stakeholders.
- All the skills needed to properly document and manage its planning, creation and evaluation. This means creating detailed and high-quality plans and evaluations of all steps of the process that consider each part of the website and how it contributes to the overall success of it.

Hot Beans Web (company) requires a website that:

- Is easy and cheap to maintain. This includes using the simplest and cheapest methods of meeting the requirements of the process and weighing the value of cutting corners or planned features if they are not justified from a strict cost-benefit evaluation.
- Gets as many users to visit and stay on the website for as long as practically possible. This means increasing traffic to the website and considering the SEO of the website to contribute to its success. This may include implementing features that satisfy possible user requirements or planning content around this goal.
- Results in as many applications from potential employees as practically possible. This means, after prospect employees have visited the page, they use it for the purpose intended by the company – which is to apply for jobs for the company.

Prospective employees require a website that:

- Is easy to understand, navigate and use to fulfil their need for it (for example, apply for a job) as possible. This means making it easy for users to get all the information they need without having to search for it- to make sure that potential employees do not miss information that would have resulted in them applying for jobs at the company.
- Includes a large amount of useful information and content. This means making sure that the users feel informed about the company enough to make decisions about whether to apply/join the company and work for it.
- Is designed well and looks appealing. This means using those website development techniques to show professionalism in the company and give the company a good look to possible employees.
- Is compatible with a variety of browsers and devices so the users can access the website on whatever device using whatever browser they have available to them at that time.

## Tooling

### Static and Dynamic Websites

Static websites will send a HTTP response to the client whenever they received a HTTP request, with the relevant HTML file. A dynamic website will generate the HTML file via server-side processing before the HTML file can be sent via a HTTP response to the client. Of the two, I have chosen to make a static website, as the benefits of making a dynamic website are not relevant to the success of the website and come with significant drawbacks, such as loading times.

Dynamic Websites are:

- Easy to make more complex designs
- Easy to maintain and change after creation
- More interactive

Static Websites are:

- Quicker to load
- More secure
- Cheaper to build

Analysis of the use of static and dynamic websites:

The ease of making more complex designs is insignificant for this website- as it includes little need for them. It is only a few pages, which all have simple content. Although a potential user may feel it looks more professional, complicating the design of the website to make use of the benefits of a dynamic website would make it more complicated for the user to use- and increase the cost and/or time of production.

The ease of maintaining and changing after creation is somewhat significant. Although this will not directly affect users, it will affect the cost of maintaining the website for the company – which is one of their needs for this website (that it is as cheap as possible). How interactive the website is, is insignificant to the company and the user as little interaction is needed for this website. This factor does not contribute to meeting any requirements for the website- other than keeping users on the website, potentially.

Loading times are significant to the users of the website. No user wants to be waiting longer for the website to load. Simply put, faster is better. This decreases the chance users clicking off the website while waiting for it to load; making it more likely users become potential employees and then employees because of the websites.

Security is significant. Users of the website will be applying for jobs and supplying sensitive personal information when they do so. Making the website more secure, then, makes this process safer for the user and decreases the chance that attacks are made with and successful at stealing this data. This is both a potential concern for the user and great cost for the company (legal action, cost of implementing more security etc).

The lower cost to build is significant for the company. The cost of the website is a significant factor in how the company views its success. The cheaper it is, the more this requirement can be said to be met. The easy of building the website is also a factor in this cost, as well as there being no need for complex and potentially costly software, or people that understand said complex software to create it. This also shows I can consider the needs of the company when making this website.

## Design

### Main Design

<https://www.figma.com/file/rSbnGeapGB7sUsT4PWYn4Q/HBW2?type=design&node-id=0-1&t=dmeSR9AunrWcqsS3-0>

Path: "../assets/DesignFigmaImg.PNG"



### Alternative Design



Path: "../assets/Alt-Design.PNG"

# Implementation

## Pre-Test

<https://splendorous-parfait-0535b5.netlify.app/>

## Post-Test

<https://dynamic-crumble-eb2e7b.netlify.app/>

# Test

## Test Plan

- Functionality

I plan to manually test a number of key features. Due to the simplicity of the website, this will be sufficient in ensuring that it meets the functional requirements of the user. The functionality test will go beyond this, though, as I can simply check the website against the user requirements I have created. This is why I've chosen to test individual components and features.

Task	Description	Status	Result	Notes
Check that Nav Bar links and buttons work	On every website's page, ensure that the links on the Nav Bar take you to the correct page. Also, check that it does not overlap with content on the page and that both buttons work by clicking them.	Incomplete	x	x
Check that page display components display properly, and with images	This includes cards and carousels. Go to the correct pages, look, and click to make sure they work.	Incomplete	x	x
Test that content of the page changes per viewport size	Go to each page and increase and decrease the size of the viewport (height and width) such that the content of the page should display differently.	Incomplete	x	x

- Performance

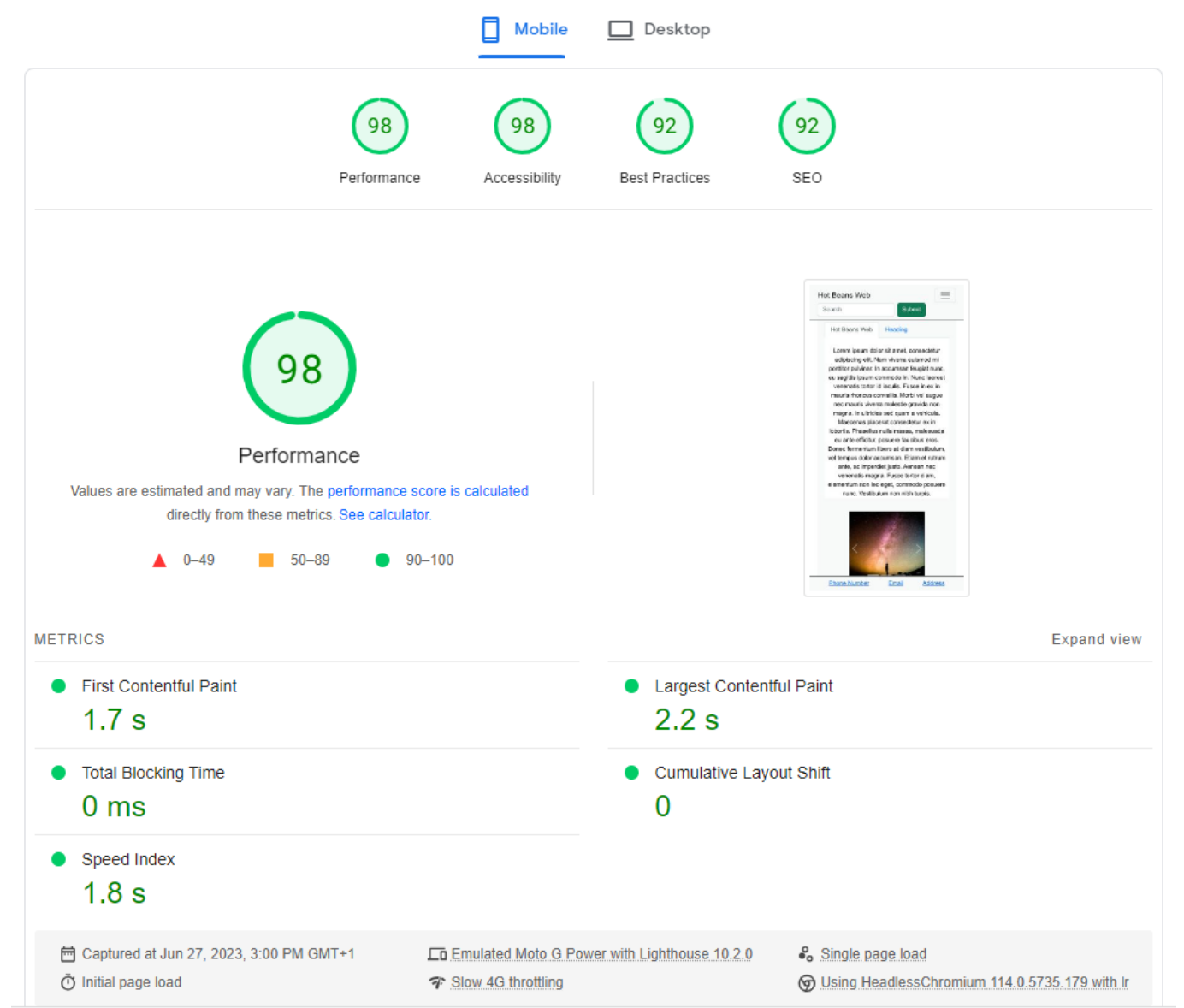
Google PageSpeed Insights should serve to test the performance of the website. The website does not expect a large amount of traffic, so any performance testing methods beyond this would be superfluous.

## Test Results

- Functionality

Task	Description	Status	Result	Notes
Check that Nav Bar links and buttons work	On every website's page, ensure that the links on the Nav Bar take you to the correct page. Also, check that it does not overlap with content on the page and that both buttons work by clicking them.	Complete	Passed	Little overlap on very small screen sizes, but such small sizes are not intended to be compatible (under XXS)
Check that page displays components display properly, and with images	This includes cards and carousels. Go to the correct pages, look, and click to make sure they work.	Complete	Fail	Images have not been included, and the carousel's arrows are white on a white background.
Test that content of the page changes per viewport size	Go to each page and increase and decrease the size of the viewport (height and width) such that the content of the page should display differently.	Complete	Pass	As intended. The lack of a primary header for the entire page on Desktop, on the main page, is distracting though!

- Performance



98

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. [See calculator.](#)

▲ 0–49

■ 50–89

● 90–100

Hot Beans Web

Search

Hot Beans Web

Heading

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Address

METRICS

Expand view

● First Contentful Paint

1.7 s

● Total Blocking Time

0 ms

● Speed Index

1.8 s

● Largest Contentful Paint

2.2 s

● Cumulative Layout Shift

0

📅 Captured at Jun 27, 2023, 3:00 PM GMT+1

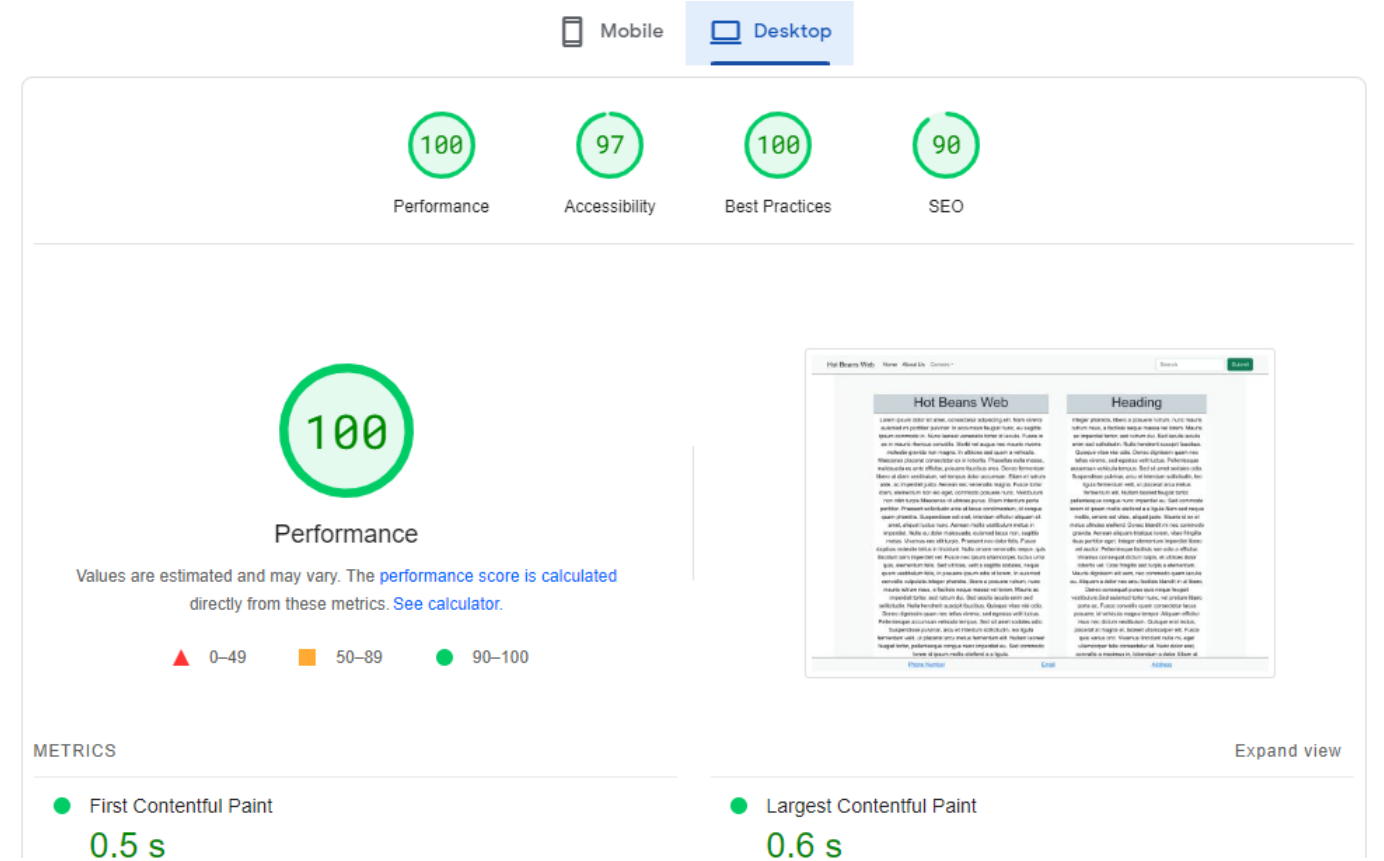
🖨 Emulated Moto G Power with Lighthouse 10.2.0

🔗 Single page load

🕒 Initial page load

📶 Slow 4G throttling

🔍 Using HeadlessChromium 114.0.5735.179 with Ir



100

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. [See calculator.](#)

▲ 0–49

■ 50–89

● 90–100

Hot Beans Web

Search

Hot Beans Web

Heading

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Phone Number

Email

Address

METRICS

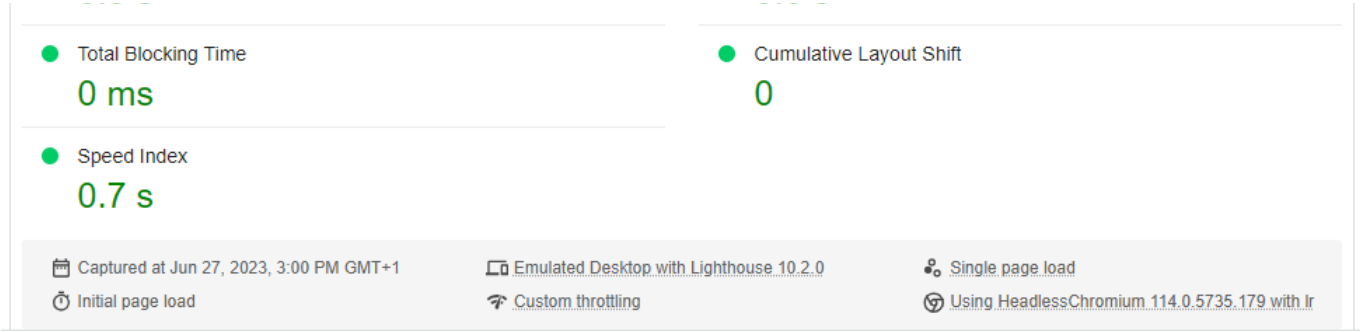
Expand view

● First Contentful Paint

0.5 s

● Largest Contentful Paint

0.6 s



User Feedback

User feedback - Alternative Design

Name	Rating	Description
Armandas B	6	Basic colour scheme and good selection of fonts. Content well placed on the page and not cluttered.
Viktor	4	High contrast between dark grey and blue for the buttons that make them difficult to use, and lost of space between content that does not need it.

User feedback - Main Design

Name	Rating	Description
Armandas B	5	Colour scheme becomes even simpler, with a lack of defining or memorable features of the page. A user probably wouldn't remember it well with such a simplistic look.
Viktor	8	Shape and colour of the website is clean. The greys look good together and aren't distracting.

Review of Design successes and failures

Armandas' comment on the simplicity of both designs is feedback I find to be true and useful. I have kept this simplicity through to the final website and refrained from implementing and complex features. I did however grow concerned over the over abstraction of the website. I decided to add some different ways to display content, such as tabs and carousels as well as change the layout on some key pages, such as the application page. I felt this could have been developed further, and that contrast of colours and a more dynamic and interesting design layout could have improved the page significantly.

Review of website functionality against requirements

- A profile of the company itself
- The website has an ABOUT US page.
- Profiles of existing trainee web developers

Profiles of employees are presented in a user friendly way, on their own page.

Job specifications and required qualifications

Noted at the bottom of the application form.

An on-line application form

There is an online application form.

Links to web development courses

Links to website development courses have been provided, and given their own page.

Functionally, it means all of the physical requirements of the user.

## Evaluation

### How my website meets user requirements

Hot Beans Web requires a new section of their website created as a part of my training. This means that the website must be able to demonstrate the skills to consider all requirements from a given brief:

#### **Requirement**

A consideration for all possible stakeholders / users. This means showing I am able and have considered the stakeholders of this section of their website as if it was going not be used- and not as if it was just a training exercise. This will include considering the needs of all these stakeholders and their importance to the success of the website.

#### **Justification**

I have taken and acted on feedback from users during my planning process - as well as optimised my website after testing key components that are important to all stakeholders: (navigation and usability for users; images and effective use of components for the training team and the displaying of content for hot beans web given their website requirements). I have made a website with many pages, and navigation through a Nav Bar at the top of the page. This would help users view all of the content that the company wants them to have access to, as well as ensure that prospective employees can easily apply and gather information from the website. I chose to have a drop-down button for the "careers" section of the NavBar, which would help these prospective employees quickly and efficiently navigate to that specific section of the website as I know they are a key stakeholder that effects the success of the website directly through the company's need for employees and the employees want for employment. The primary purpose of the website is to generate job applications from potential employees. To achieve this goal, I have optimized the user experience, ensuring that the application process is intuitive, user-friendly, and easily accessible. By simplifying the application procedure and incorporating clear calls-to-action, I have maximized the chances of users utilizing my website for its intended purpose, resulting in a higher volume of job applications for the company.

#### **Requirement**



An understanding and effective execution of web development techniques. This means making a functional website that works well, including using all the relevant tools within the scope of the project to meet the needs of different stakeholders.

### **Justification**

The website uses a variety of bootstrap components to create a functional, esthetic website that shows off my web development skills. Firstly, I have included the following (non-typical) components: Forms, NavBar, Carousel and Cards. These clearly show an understanding and skilled execution of web development techniques. I have included inputs, navigation and content displaying components to show my understanding of the importance of these features in a website.

### **Requirement**

All the skills needed to properly document and manage its planning, creation and evaluation. This means creating detailed and high-quality plans and evaluations of all steps of the process that consider each part of the website and how it contributes to the overall success of it.

### **Justiifcation**

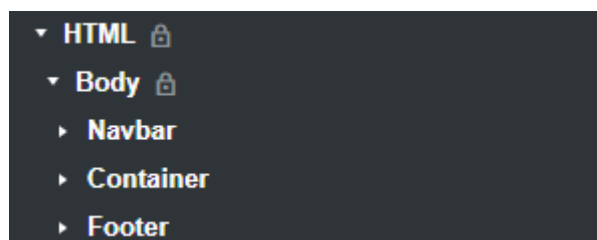
I created two different plans, and gathered feedback on them. I also clearly documented the exact user requirements of all stakeholders before my planning process. I also planned and tested my website before making alterations that would optimise it against these requirements. In addition, I explained my use of specific design choices which would change the functionality of the website significantly. All of these clearly show the skills to properly document and manage a website's planning, creation and evaluation.

### **Requirement**

Is easy and cheap to maintain. This includes using the simplest and cheapest methods of meeting the requirements of the process and weighing the value of cutting corners or planned features if they are not justified from a strict cost-benefit evaluation.

### **Justification**

The website follows standard conventions for websites, such as the structure of pages:



And the naming of images. These help to create an understandable website that is easy to maintain due to the simplicity of its HTML.