

Assessment Report

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Assessment Number: 2



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Title

Date:

*Please complete the following components. You should add additional headings and sections where required. When complete delete all comments in* ***blue*** *prior to submitting.*

1. Project Requirements (Part 1)

Client Requirements

* 1. The clients aim is to use its local reputation to increase its customer base of young families with children, and aid in the diagnosis of a range of eye conditions to help the overall quality of life in the local community.
  2. The main target audience for the page is local families with young children, but any local requiring an optometrist will find their services useful.

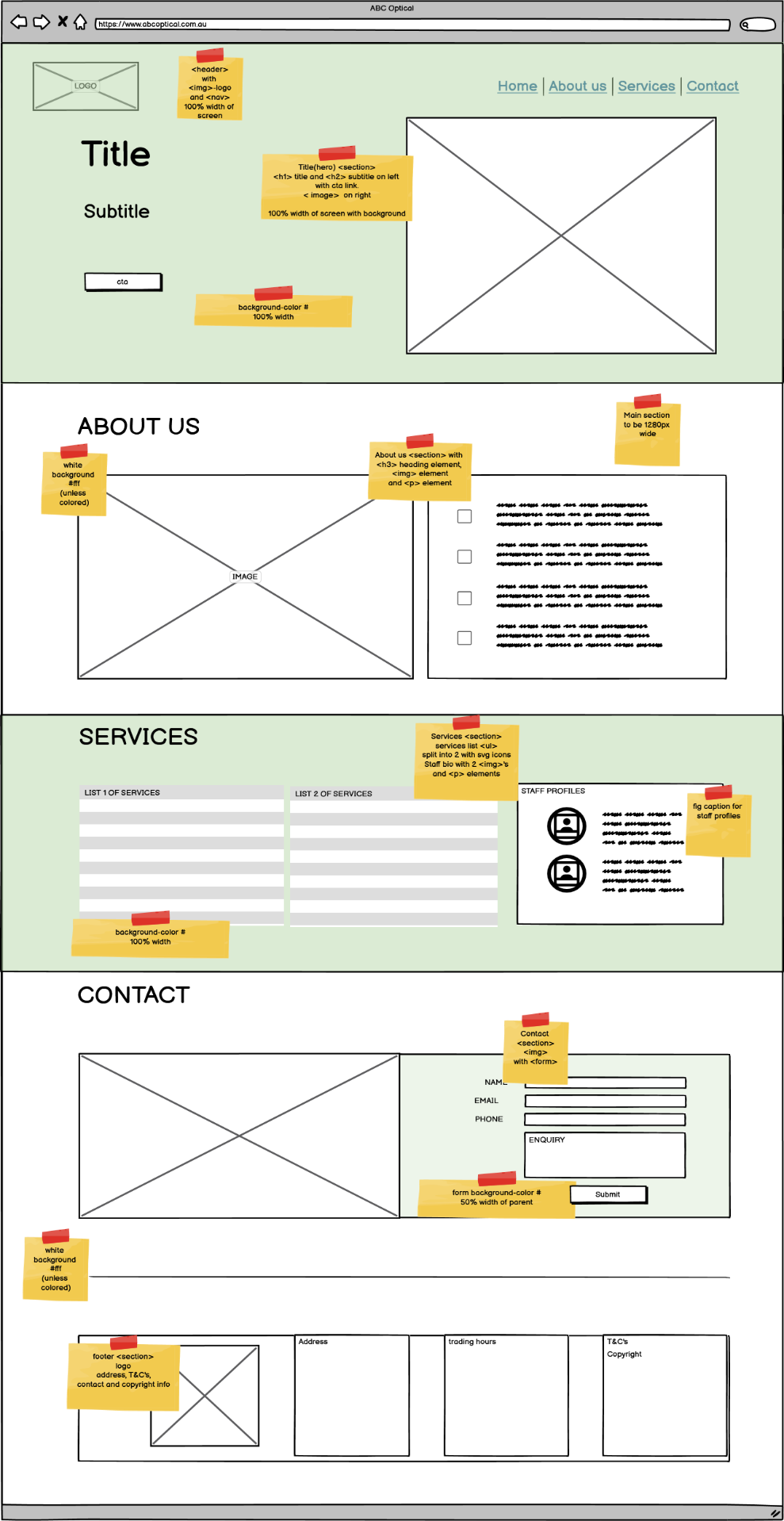
1.3

|  |  |  |  |
| --- | --- | --- | --- |
| LEGAL OBLIGATION | | ACTIONS REQUIRED | SOURCE |
| Privacy Act | | * Inform your customers of what measures you have in place to protect their personal details, such as names, addresses and credit card details. * Check your privacy policy is compliant with Australian privacy law and is easily accessible on your website. | <https://www.business.qld.gov.au/running-business/digital-business/online-risk-security/legal-obligations> |
| Legal Obligations and jurisdictions | * Assess your online business activities and the geographic areas your business operates within and identify the legal obligations that apply. * Create a plan to ensure that all your business activities comply. * Conduct regular reviews or sign up for updates to make you aware of any changes, or seek professional advice. | | <https://www.business.qld.gov.au/running-business/digital-business/online-risk-security/legal-obligations> |
| Email Marketing | * Comply with the [Spam Act 2003(Cwlth)](https://www.legislation.gov.au/Series/C2004A01214) | | <https://www.legislation.gov.au/Details/C2016C00614> |
| Copyright | * Images and content to meet copyright requirements * Have permissions to use intellectual property | |  |
| Consumer Law | * Online advertising is not false or misleading. * Online reviews are genuine. * Uphold responsibilities to customers. * Comply with Australian Product/Mandatory safety laws | | <https://www.business.qld.gov.au/running-business/digital-business/online-risk-security/legal-obligations> |
| Website term of use | * A terms of use document that includes information on protecting your business ideas, disclaimers and rules applying to anyone who interacts with your website. | | <https://www.business.qld.gov.au/running-business/digital-business/online-risk-security/legal-obligations> |
| Terms and Conditions | * If you sell products online, include terms and conditions outlining the operations of your business sales, payment options, cancellation policies, consumer guarantees, and return and refund policies. * You should also have a process for customer complaints. | | <https://www.business.qld.gov.au/running-business/digital-business/online-risk-security/legal-obligations> |
| Business Information | * Contact details are included and easy to find | | <https://www.business.qld.gov.au/running-business/digital-business/online-risk-security/legal-obligations> |
| Client Agreement | * If you provide services online, include a client agreement. * This should contain information about payment, expectations, termination of the agreement, and the process for handling disputes | | <https://www.business.qld.gov.au/running-business/digital-business/online-risk-security/legal-obligations> |
| Electronic Transactions | * Provide payment mechanisms that are easy to use and give appropriate security. * Clearly explain the security and authentication methods you use so customers can assess any risks | | <https://www.business.qld.gov.au/running-business/digital-business/online-risk-security/legal-obligations> |
| Accessibility Standards | * Comply with WCAG 2.0/2.1 standards * Ensure that WCAG 2.1 success criteria support mobile use-cases * Define a clear conformance model for WCAG 2.1/dot.x releases * Ensure the conformance structure utilizes the WCAG 2.0 A / AA / AAA model | | <https://www.w3.org/TR/WCAG20/>  <https://w3c.github.io/wcag21/requirements/> |

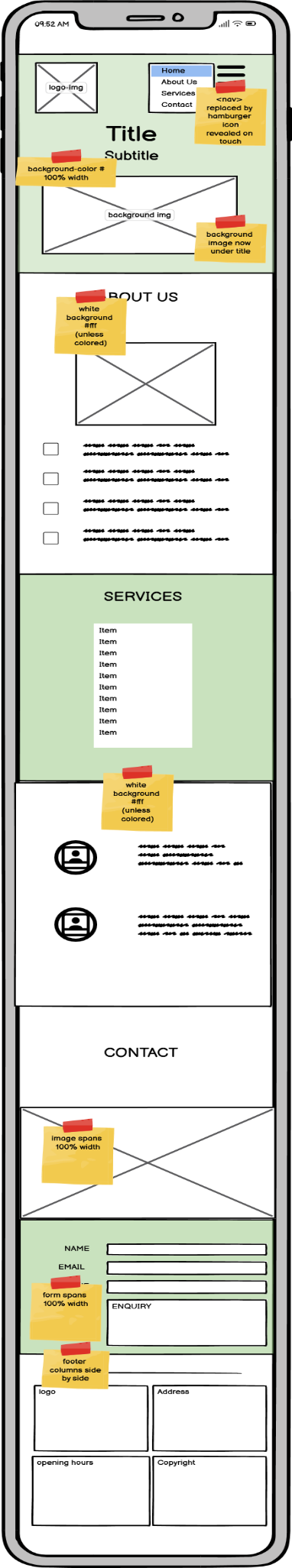
Wireframes

1.7

**PC/Desktop Version of Website**

**

**Mobile Phone Screen of website**



Styling Information

Typography

1.8

|  |  |
| --- | --- |
| Main Styles | |
| Title/Heading 1 | 54px |
| Heading 2 | 20px |
| Heading 3 | 24px |
| Heading 4 | 24px |
| Link: link, active and hover | 18px |
| Paragraph | 16px |
| Fig caption | 16px/14px/12px |
| Unordered Lists | 16px |
| Labels | 12px |
| Inputs | 16px |
| Buttons | 16px |
| Font-family | |
| Headings | Lato |
| Paragraphs/list | Montserrat |
| Back-up | Sans serif |

Iconography

The iconography format style I chose is from the heroicons website ([https://heroicons.com/)](https://heroicons.com/) as they are SVG format, and have a choice of outline, solid or mini in which I selected the outline style. These can then be coloured using stroke in CSS.

Below is listed the specific icons I chose and why:

|  |  |
| --- | --- |
|  | To represent the business is local |
|  | A caring approach to children |
|  | For Optometrist |
|  | Positive health and well-being |
|  | A check to signify a service provided |

Colour Scheme

|  |  |
| --- | --- |
| **COLOUR SCHEMES** | |
| **PAGE CONTENT** | |
| **Background:**  Overall background will be white(#fff), the Title section, Services section and form background will use the colour palette green(#87d195  ). | **Text:**  Paragraphs will use a lighter black(#), while headings will use a darker version of the colour palette green(#). |
| **Buttons/Links:**  Button/link backgrounds will all share the same green colour(#216b2e) with box shadows.  Text will be the cream(#ffec99).  CTA buttons/links will use a paler red(#cd5b5b)  **Icons:**  Dark green icons, used on light green background where needed., | **FORMS:**  **Background:**  form background will use the colour palette green(#).  **Labels:**  Capitalize .  **Input fields:**  Green borders  **Submit Button:**  As Call to action button |
| **SCHEME**  Colour Palette 3 |
| **White space** | Each section will occupy a height of 100vh |

Markup Language Comparison

1.9

|  |  |  |  |
| --- | --- | --- | --- |
| **SELECTION CRITERIA** | **HTML** | **XML** | **XHTML** |
| Browser compatibility | All major browsers | All major browsers | All major browsers |
| Tag type | Predefined | User Defined | User Defined |
| Case sensitive | No | Yes | Yes |
| Data storage | In tags | Can use a separate file | In Tags |
| File size | Small | Large | Small |
| **Justify your selection** *(minimum 30 words)***:**  With no case sensitivity and tags being predefined, HTML is an easier option for markup.  XHTML does not include all of the elements that are included in HTML5, so validation is error prone. File size with XML could be high for a single page website. | | | |

2. Test, debug and validate (Part 3)

Validation

3.3

First round of HTML Validation

File: index.html

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

W3C Markup Validator and FreeFormatter indicated an issue with the HTML having too many hyphens in the comments, which was caused by an extension I use in VS code, so I removed the extra hyphens.

W3C Markup Validator also found an issue with the favicon HTML code, having a forward slash in the closing of the element which link elements in the head do not need.

Second round of HTML Validation

A screenshot of a computer

Description automatically generated with medium confidence

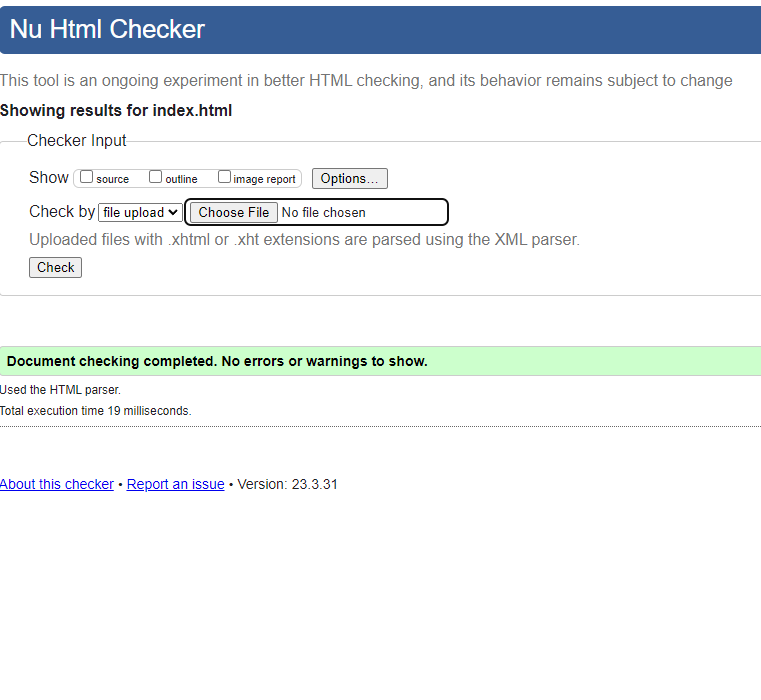
A screenshot of a computer

Description automatically generated

No issue with the HTML having too many hyphens in the comments anymore.

Favicon Issue remains, so removed forward slash from favicon link element.

Third round of HTML Validation



No Issues remain.

First round of CSS Validation

File: style.css

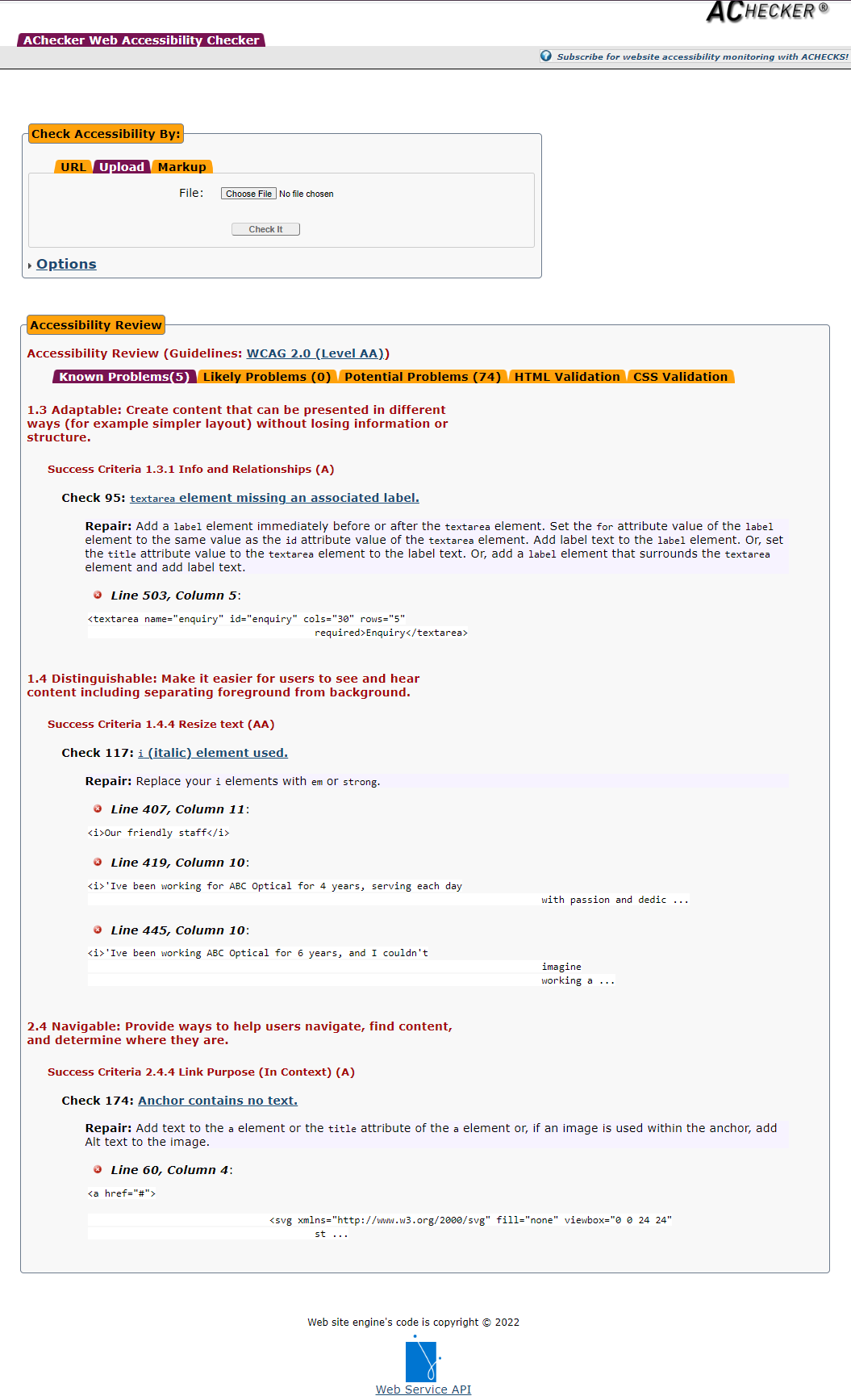
A screenshot of a computer

Description automatically generated with medium confidence

The CSS file passed the Validation on the first attempt.

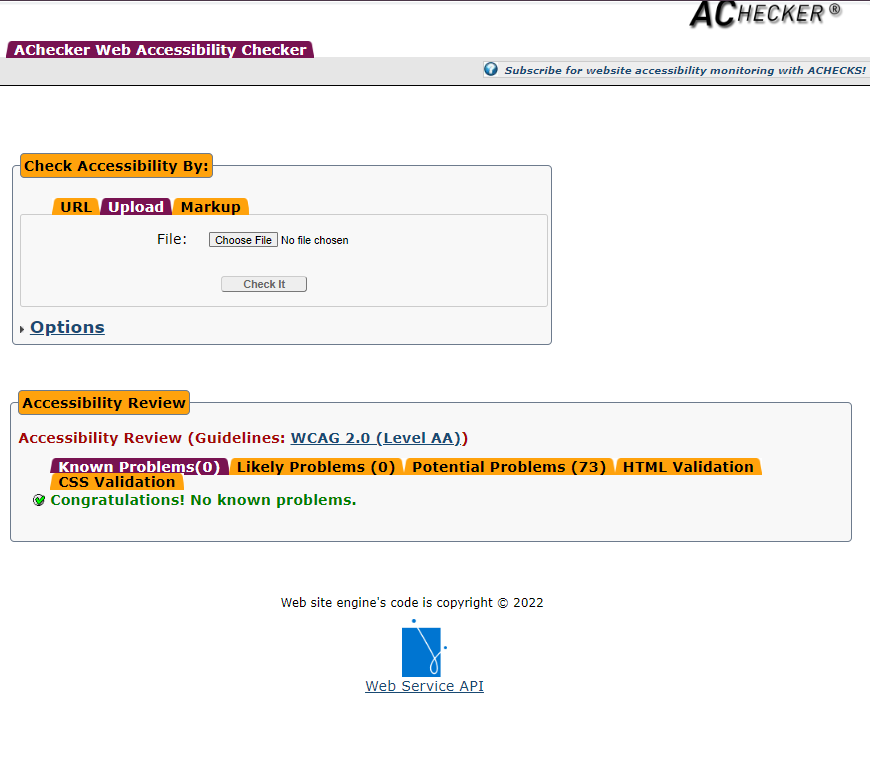
Accessibility Testing

3.4



5 problems identified on initial test:

* No label for textarea – added label.
* <i> used instead of <em> 3 times for italics – changed all <i> to <em>.
* <a> used for hamburger menu icon which holds no text – changed element to button.



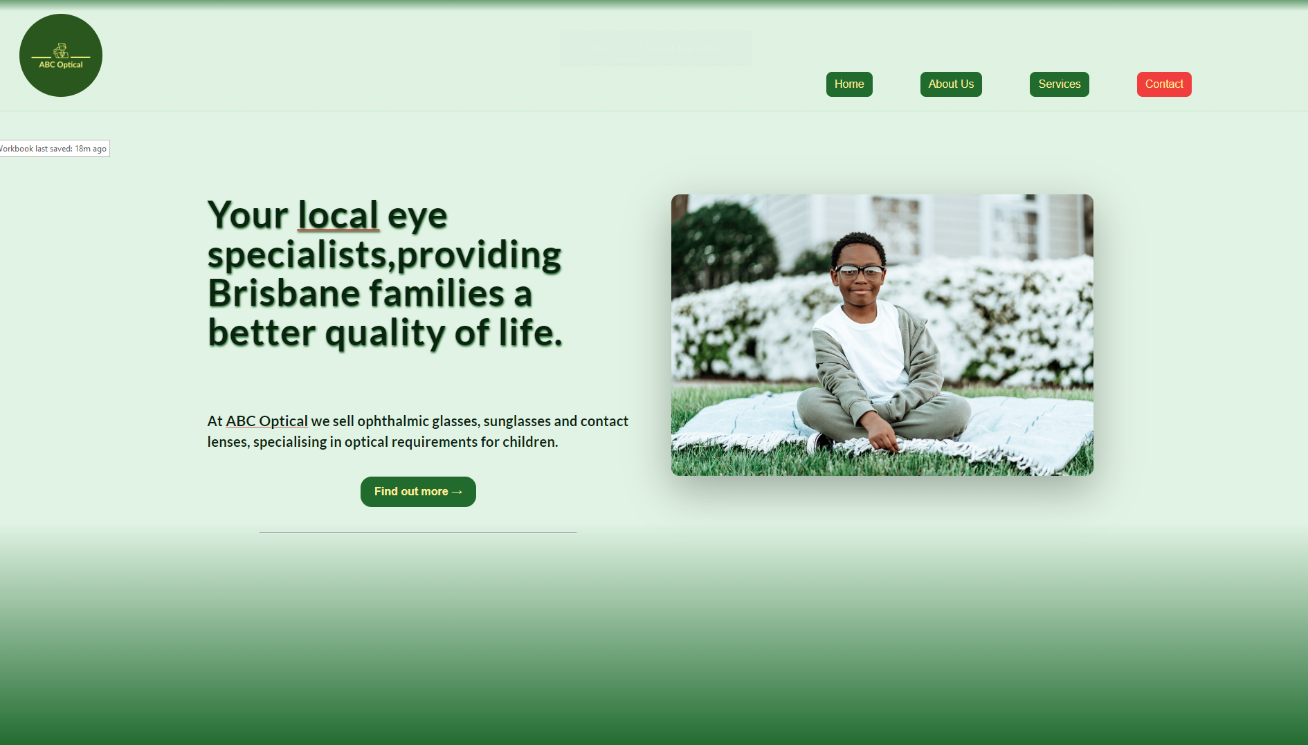
0 known problems.

0 likely problems.

75 potential problems – mainly suggestions around alt text for images.

Browser/Device Testing

3.5

The following screenshots are the desktop version of the website on Google Chrome V113.0.5672.63

A person and a child looking at each other

Description automatically generated with low confidenceFigure 1 - Google Chrome V113.0.5672.63

Figure 2 - Google Chrome V113.0.5672.63

A screenshot of a computer

Description automatically generated with low confidence

Figure 3 - Google Chrome V113.0.5672.63



Figure 4 - Google Chrome V113.0.5672.63



Figure 5 - Google Chrome V113.0.5672.63

The following screenshots are the desktop version of the website on Opera Browser V:98.0.4759.15

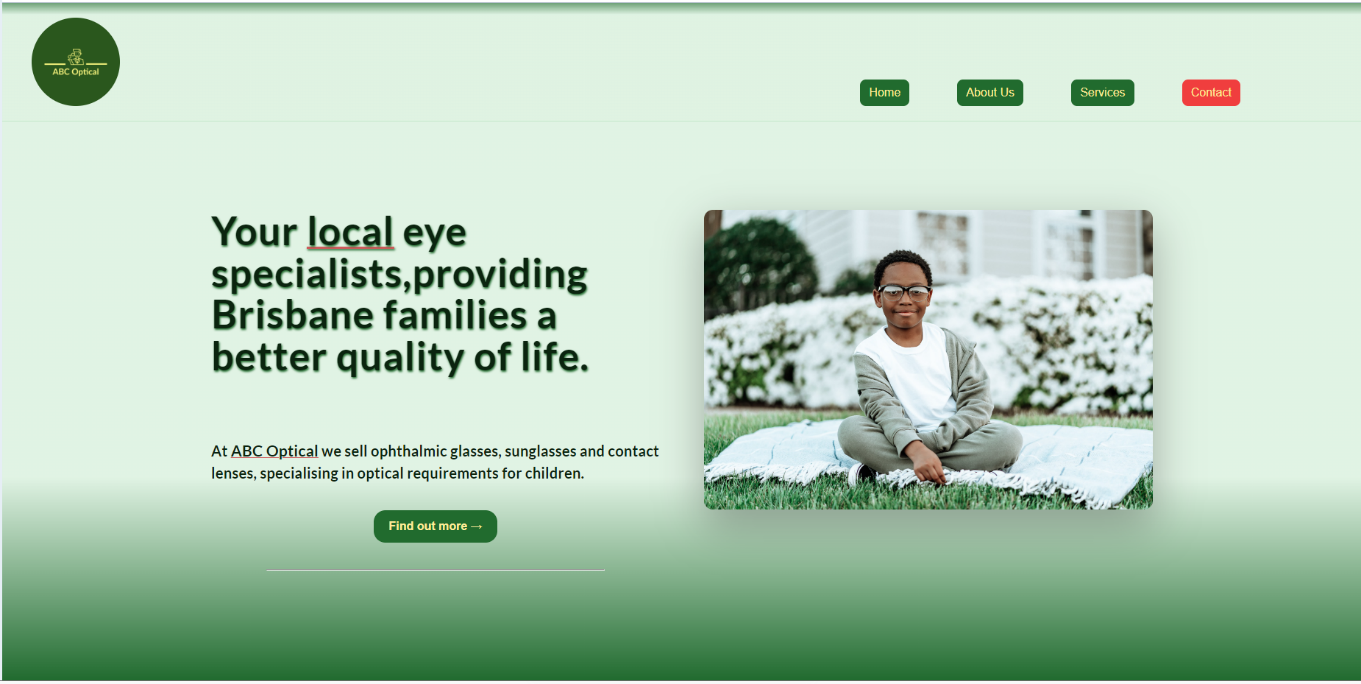


Figure 1 – Opera Browser V:98.0.4759.15

Figure 2 – Opera Browser V:98.0.4759.15

A picture containing text, screenshot, design

Description automatically generated

Figure 3 – Opera Browser V:98.0.4759.15

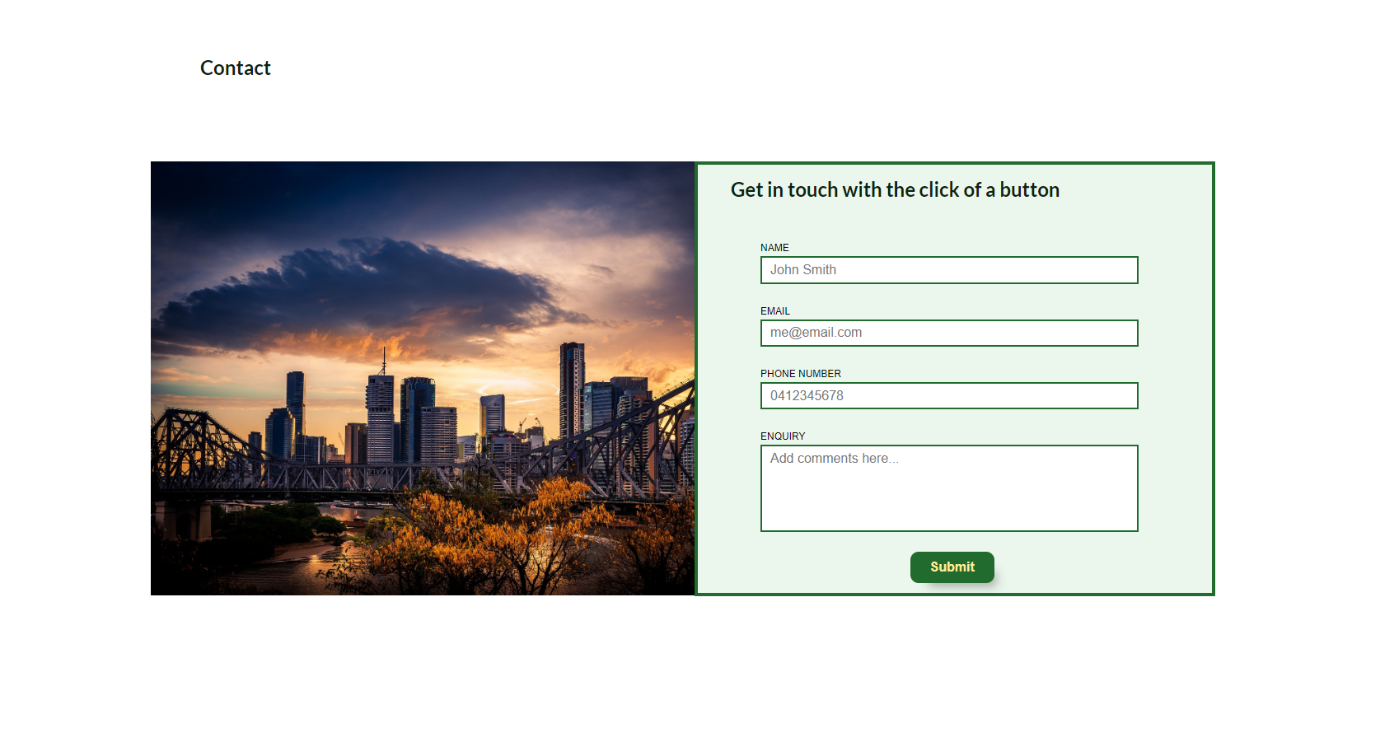


Figure 4 – Opera Browser V:98.0.4759.15

A close-up of a computer screen

Description automatically generated with low confidence

Figure 5– Opera Browser V:98.0.4759.15

The following screenshots are of the mobile phone version of the website using the

Samsung Galaxy S20 Ultra.

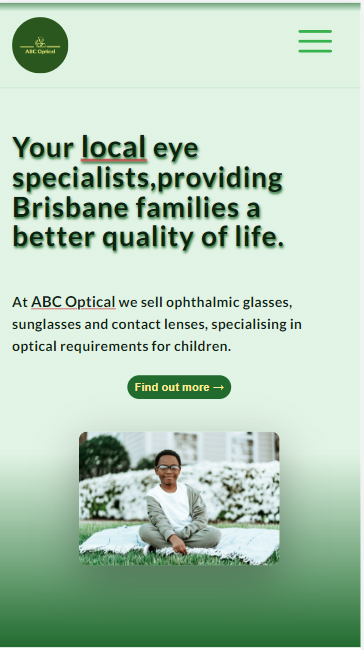


Figure 1 – Samsung Galaxy S20 Ultra

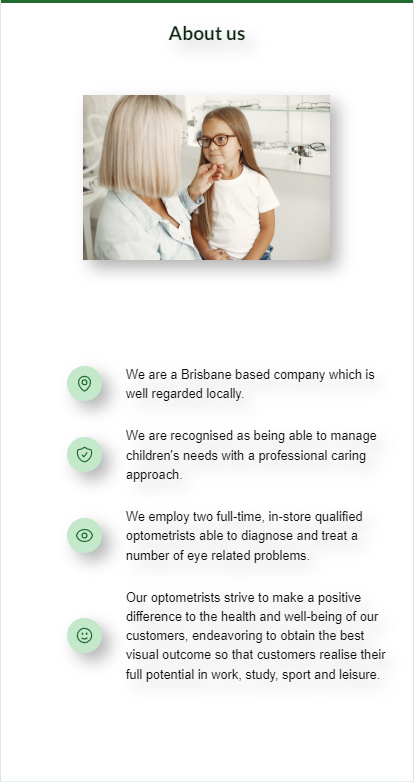
**

Figure 2 – Samsung Galaxy S20 Ultra

**

Figure 3 – Samsung Galaxy S20 Ultra

**

Figure 4 – Samsung Galaxy S20 Ultra

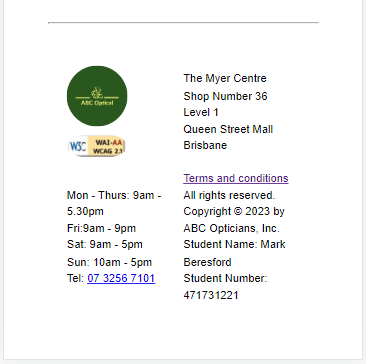
**

Figure 5 – Samsung Galaxy S20 Ultra

The following screenshots are of the mobile phone version using the iPhone 12 Pro:

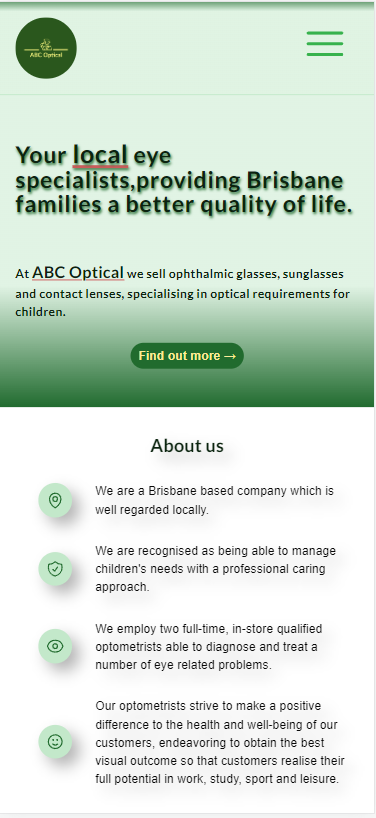


Figure 1 - iPhone 12 Pro

A screenshot of a phone

Description automatically generated with medium confidence

Figure 2 - iPhone 12 Pro

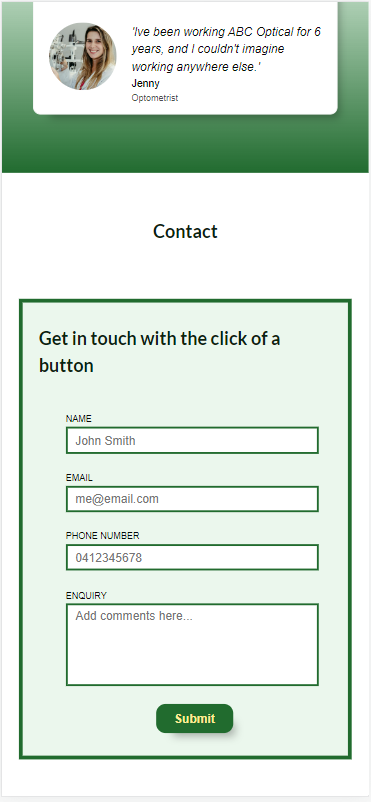


Figure 3 - iPhone 12 Pro

A screenshot of a phone

Description automatically generated with low confidence

Figure 4 - iPhone 12 Pro

Cyber security measures

3.6

Authentication process

a) Ways avoid or reduce cyber security attacks at the authentication process:

**Two-Factor Authentication**

Add an additional layer of protection to the user/password authentication process by adding 2FA (Two-factor authentication).

2FA verifies a user with two different approaches:

1. username/password
2. A phone or device(with an app generated code sent to the phone/device)

**Multi-Factor Authentication**

Multi-factor authentication is an authentication method that requires a user to verify their identity by providing more than one piece of information that identifies them(usually a fingerprint or secret security key/app generated code).

If someone was to obtain your username and password, they would still need your fingerprint or a code that has been sent to your phone.

<https://www.freecodecamp.org/news/user-authentication-methods-explained/>

Programmatically engineered solutions to avoid cyber-attacks

b) Using programmatically engineered solutions to avoid cyber attacks:

**Use Parameterised Prepared statements**

Parameterized prepared statements can be named and reused with different parameter values, so the only variation will be within the parameters, providing more security against SQL injections.

<https://jaredablon-31568.medium.com/how-to-prevent-sql-injection-vulnerabilities-how-prepared-statements-work-f492c369614f>

Internet protocols

c) Using internet protocols to prevent cyber security attacks:

**SSL Certificates**

An SSL certificate added to your website ensures a HTTPS (Hyper Text Transfer Protocol Secure) appears in the URL.

This process ensures that any data transmitted between the server and a web browser is secure and cannot be intercepted by third parties.

<https://medium.com/codex/what-is-ssl-for-dummies-eb26161c2b69>

Project Signoff

|  |  |
| --- | --- |
| **PROJECT SIGNOFF**  Signing off on this document signifies that the client representative is satisfied with the completed project. The client acknowledges satisfaction and completion with all elements of the project. | |
| Client Representative Signature:  Date: | Developer Signature:  Date: |
| **PROJECT NOT APPROVED**  Please provide feedback below and attach any relevant information to assist the project team in making the changes needed. | |

*Copy, paste and complete the project signoff table from the assessment document*

3. Knowledge Questions (Part 4)

*Include the answers to your knowledge questions here ensuring that you clearly identify each question*

Appendices

*Include any appendices in this section*

References

<https://www.business.qld.gov.au/running-business/digital-business/online-risk-security/legal-obligations>

<https://www.geeksforgeeks.org/explain-different-markup-languages-other-than-html/>