Task 3 – Website Testing & Evaluation

1. Overview

Testing of the mini website 'Discover Lombok' was done successfully along with relevant screenshots, errors and fixes. Moreover, W3C standards and accessibility guidelines along with contrast was taken care of.

2. Cross-Browser and Device Testing

The site was tested on three browsers and three devices:

Platform	Result Summary
Chrome (Laptop)	Layout renders correctly; all links and form functions are usable.
Firefox (Laptop)	Design consistency maintained, responsive behaviour intact.
Edge (Laptop)	Fully compatible, no layout shift occurred
iPad Pro (Tablet)	Responsive layout works perfectly fine; navigation also adapts smoothly.
iPhone 14 Pro Max	Site is usable, buttons and text are readable and works perfectly fine.

The site was tested across different browsers and devices and worked successfully with positive results
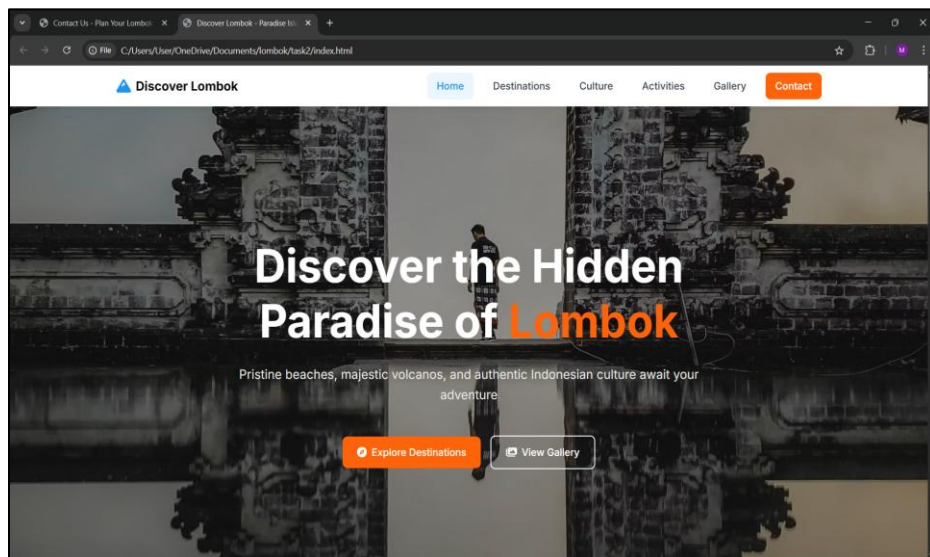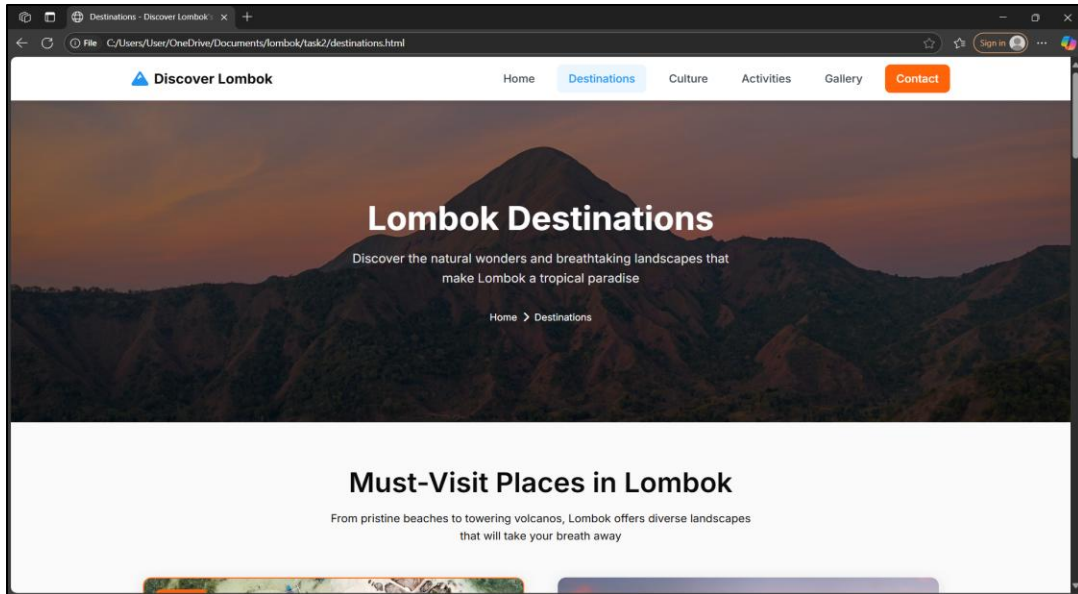
Screenshots:
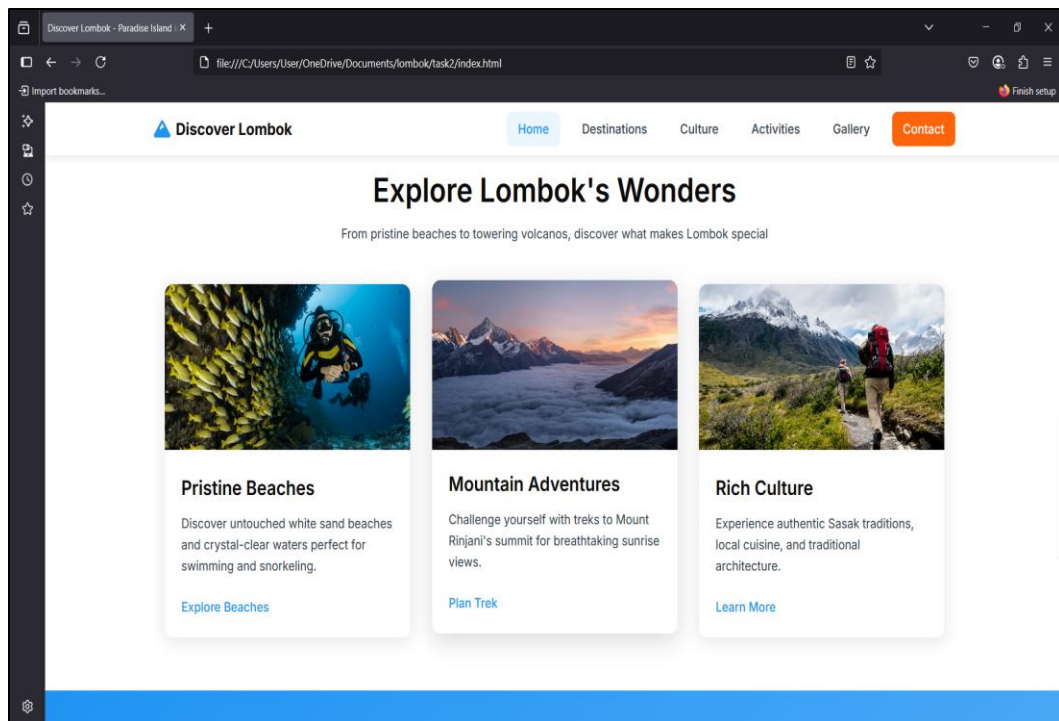

Fig1- laptop(chrome)

Fig2- laptop(edge)

Fig3- laptop (Firefox)

Fig4- iPad pro

Fig5 -Iphone14promax
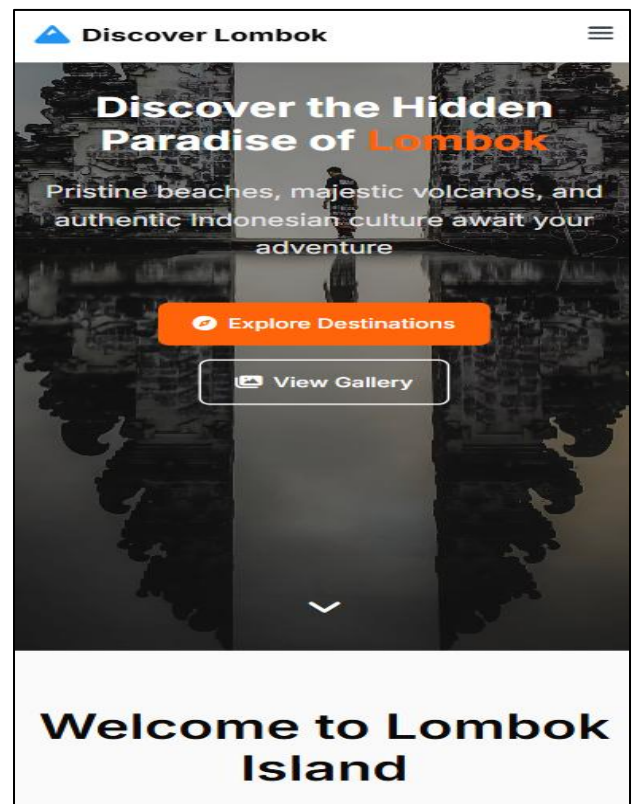
3. HTML & CSS Validation

HTML Validation
Tool: W3C Markup Validator (https://validator.w3.org/)

- Pages tested: index.html, contact.html, destinations.html, activities.html, contact.html, culture.html

- Initial errors: 1 in gallery.html with 2 warnings

- Errors fixed: all

Screenshots:

<u>**Before solving errors**</u>

After solving errors:

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for culture.html

Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by [file upload ▾] [Choose File] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 20 milliseconds.

About this checker • Report an issue • Version: 25.6.3

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for Destinations.html

Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by [file upload ▾] [Choose File] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 21 milliseconds.

About this checker • Report an issue • Version: 25.6.3

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for activities.html

Checker Input

Show ☐ source ☐ outline ☐ image report Options...

Check by [file upload ▾] [Choose File] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 33 milliseconds.

About this checker • Report an issue • Version: 25.6.3

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for gallery.html

Checker Input

Show ☐ source ☐ outline ☐ image report [Options…]

Check by [file upload ∨] [Choose File] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 46 milliseconds.

About this checker • Report an issue • Version: 25.6.3

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for uploaded file contact.html

Checker Input

Show ☐ source ☐ outline ☐ image report [Options…]

Check by [file upload ∨] [Choose File] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 18 milliseconds.

About this checker • Report an issue • Version: 25.6.3

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for uploaded file index.html

Checker Input

Show ☐ source ☐ outline ☐ image report [Options…]

Check by [file upload ∨] [Choose File] No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

[Check]

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 7 milliseconds.

About this checker • Report an issue • Version: 25.6.3

CSS Validation

Tool: W3C CSS Validator (https://jigsaw.w3.org/css-validator/)

- File tested: styles.css

- Errors found: 0

- Status: passed

<u>**Screenshot:**</u>

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

Congratulations! No Error Found.

This document validates as CSS level 3 + SVG !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    <img style="border:0;width:88px;height:31px"
         src="https://jigsaw.w3.org/css-validator/images/vcss"
         alt="Valid CSS!" />
  </a>
</p>
```

```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    <img style="border:0;width:88px;height:31px"
         src="https://jigsaw.w3.org/css-validator/images/vcss-blue"
         alt="Valid CSS!" />
  </a>
</p>
```

4. Accessibility Checks

The WAVE accessibility evaluation showed a lot of **contrast** issues, such as dark text over dark images, which made the content difficult to read. These issues were then corrected and resolved to ensure that a reader does face much difficulty in reading anything on the websites.

Page	Issue	Fix
index.html	Nav link contrast	Used hsl (207,100%,30%) text
index.html	Contact button too light	Changed to rgb (200, 60, 0)
index.html	Highlight text too light	Changed to rgb (200, 60, 0)
index.html	Light grey paragraph text	Replaced with white text class
index.html	Mobile toggle unlabelled	Added aria-label
destinations.html	Nav link contrast & toggle unlabelled	Same as index
culture.html	Nav link contrast & toggle unlabelled	Same as index
activities.html	Nav link contrast & toggle unlabelled	Same as index
gallery.html	Nav link contrast & toggle unlabelled	Same as index
gallery.html	Image buttons unlabelled	Added aria-label="View full image"
contact.html	Nav link contrast & toggle unlabelled	Same as index

NOTE: Screenshots of each page are given in Appendix

5. Summary of Fixes

Tool Used	Issue	Fix Applied
WAVE	Low contrast text and missing accessible labels were fixed by updating colours and adding aria-label attributes to buttons across all pages.	High-contrast colours and proper aria-labels were applied to increase readability and accessibility across all site pages.
W3C Validator	Unclosed HTML tag	Closed tag in index.html
Contrast Checker	Detected Low contrast in buttons	Changed the orange shade

6. Conclusion

The site has been successfully tested for usability, responsiveness, HTML/CSS validity, and accessibility using tools like WAVE and the WebAIM Contrast Checker. There were several accessibility issues that were identified particularly low contrast in navigation links, buttons, and text; therefore, these were resolved by applying high-contrast colour values. One thing to be noted is that **not all contrast errors** could be fully corrected as increasing the contrast further would have negatively impacted the visual balance and readability for users. Careful adjustments were made to keep a proper balance between meeting accessibility standards and making an aesthetically pleasing and user-friendly design. The website is complete now and meets a good user experience and technical specification.

7. References

World Wide Web Consortium (W3C) (2024) *Markup Validation Service*. Available at: https://validator.w3.org/ (Accessed: 25 June 2025).

World Wide Web Consortium (W3C) (2024) *CSS Validation Service*. Available at: https://jigsaw.w3.org/css-validator/ (Accessed: 25 June 2025).

WAVE (2024) *Web Accessibility Evaluation Tool*. Available at: https://wave.webaim.org/ (Accessed: 25 June 2025).

WebAIM (2024) *Contrast Checker*. Available at: https://webaim.org/resources/contrastchecker/ (Accessed: 25 June 2025).

iStock (2024) *Royalty-Free Stock Images*. Available at: https://www.istockphoto.com/ (Accessed: 25 June 2025).

Pexels (2024) *Free Stock Photos & Videos*. Available at: https://www.pexels.com/ (Accessed: 25 June 2025).

Shutterstock (2024) *Stock Photos, Royalty-Free Images & Vectors*. Available at: https://www.shutterstock.com/ (Accessed: 25 June 2025).

Pixabay (2024) *Stunning Free Images & Royalty-Free Stock*. Available at: https://pixabay.com/ (Accessed: 25 June 2025).

8. Appendix

Page 1 – index.html before Fix:
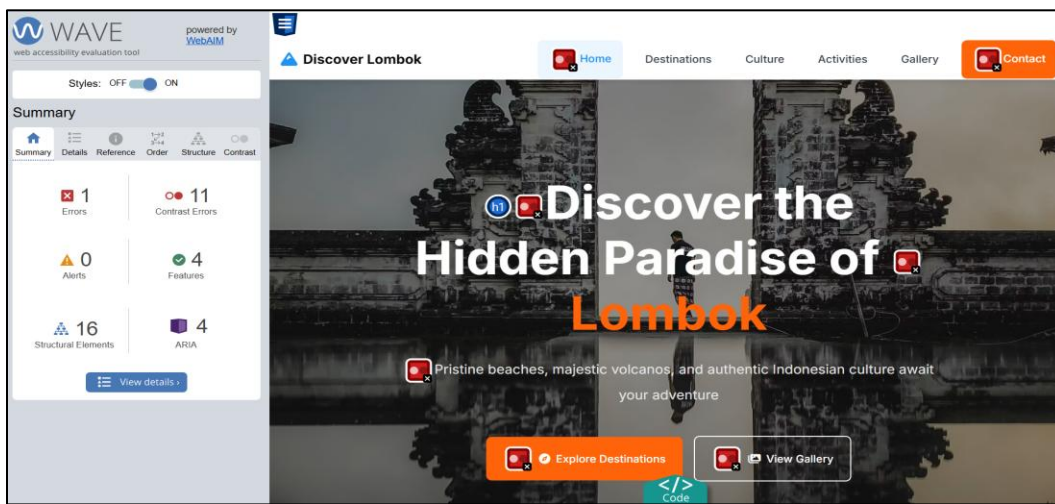
Page 1 – index.html After Fix:
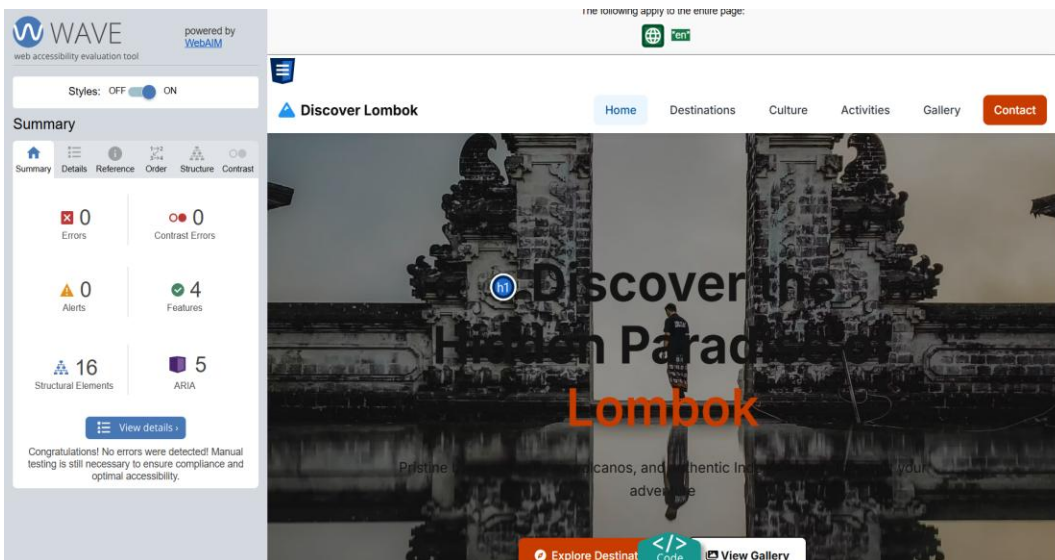
Page 2 - destination.html before Fix:

Page 2 – destination.html after Fix:

Page 3 – gallery.html before Fix:

Page 3 – gallery.html after Fix:

Page 4 – activities.html

Page 5 – culture.html:

Page 6 – contact.html: