Subject: SECV2223 Web Programming

Section: 01

Assignment 2

Lecturer: Dr. Sarina Sulaiman
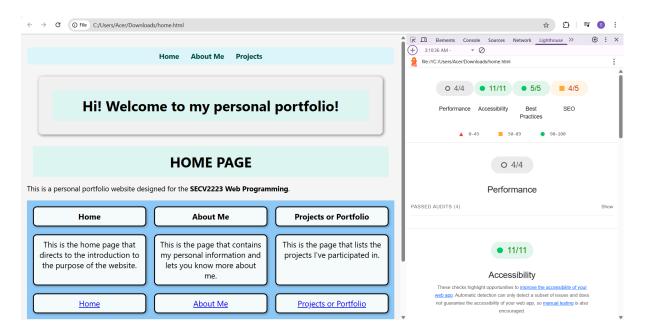
Date: 08 May 2025

Name: Seow Yen Zhi
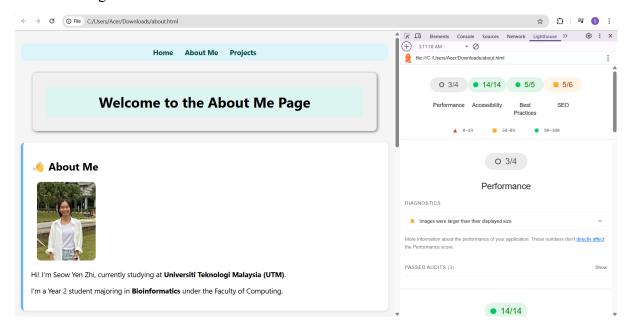
Matric Number: A23CS0177

Lighthouse Analysis Report
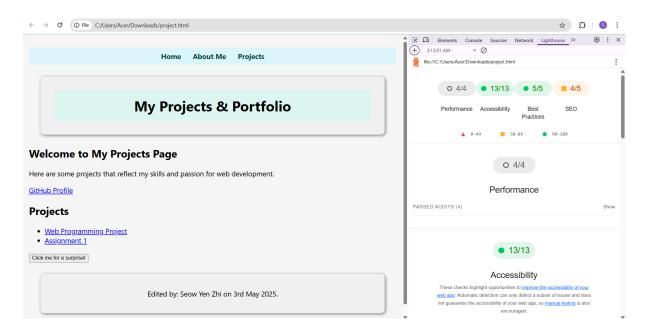
Home Page

About Me Page

Project Page

Reflection

Based on this current assignment about designing a personal portfolio website, I manage to apply the skills implementing CSS and JavaScript in HTML coding. To let the websites look neat and organised, the three websites which are the home page, about me page and project page should use the same CSS file and JavaScript file. This can maintain consistency and improve user experience as it is easier to understand. Besides the three websites implement the navigation part which allows the websites to internavigate between these three pages. This allows users to browse between these websites easily.

Creating websites is somehow a challenging process and it involves several stages such as planning, designing, coding, testing and optimizing. Throughout the process, I have learned that the planning for clear structure is essential so that the website layout to the user remains clean and neat. The website should also be organised by having the CSS grid implementation. This implementation displays a neat and easier navigation to the user. The process of developing the website requires multiple testing. This allows us to realise the mistake in the coding and improve the implementation of the CSS and Javascript.

The lighthouse analysis report reflects the overall performance of the website. The lighthouse report analysis is based on a few perspectives, performance, accessibility, best practice and SEO. The current lighthouse analysis helps developers in identifying the areas for further improvement. It addresses the issues that are required for further changes to present a better website for users. Based on the performance section, it shows how fast the website loads and how it interacts with users. Based on the lighthouse result, the websites can be improved to better interact with the users. The accessibility results indicate how accessible the website is. Based on the report, the colour chosen and the alt text for image shows a great accessibility. For the best practice part, it shows how well the websites adhere to modern web development standards. The three websites show good results in this area due to the implementation of usage of headers and mobile friendly. The SEO section highlights the opportunity for improvement. The data should be better structured, meta tags and semantic HTML can be apple to achieve better SEO result.