

1. Declaration

I, [Student Name], declare that this assignment, titled [Assignment Title], is my own original work and has not been copied from any other source except where explicitly acknowledged. I have not engaged in plagiarism, collusion, or any other form of academic misconduct in the preparation and submission of this assignment. All sources of information and data used in this assignment have been properly cited and referenced in accordance with the prescribed guidelines. I have not used unauthorised assistance in the preparation of this assignment and have not allowed any other student to copy my work. I am aware that any breach of academic integrity may result in disciplinary action as per the [policies of Monash University](#), which may include failing this assignment or the course, and further academic penalties.

Signature: __Lachlan Williams__

Date: ____27/08/24____

2. Github Check

Enter your Github details here.

Github Username <i>Enter your username here</i>	LachlanWilliams
A2 Shared? <i>Have you started and shared your assignment repository with your tutor yet?</i>	https://github.com/LachlanWilliams/FIT5032_Assignment

3. Self-Evaluation

Rate your performance for each criteria. Put a ☒ (tick) in the box where you think your work belongs.

Criteria	Exceeds Expectations	Meets Expectations	Needs Improvement	Fail to meet expectations
BR (A.1): Development Stack and Coding	<input checked="" type="checkbox"/>			
BR (A.2): Responsiveness			<input checked="" type="checkbox"/>	
BR (B.1): Validations	<input checked="" type="checkbox"/>			
BR (B.2): Dynamic Data & Data Structure	<input checked="" type="checkbox"/>			

BR (C.1): Authentication	✓			
BR (C.2): Role-based authentication	✓			
BR (C.3): Rating	✓			
BR (C.4): Security		✓		

4. Screen Recording of BRs

Create a 3 minute video showing your basic web application in action! Upload this video to your Google Drive and put the link here (ensuring that you have updated the access list so its not private).

<https://drive.google.com/file/d/1jV3ZFAYDIQUpH9yyOWN3tnF7KoxgigNh/view?usp=sharing>

5. Reflections: Implementation of C.4 Security

If you have implemented BR C.4, in less than 200 words describe the approach that you have taken to implementing Security in your application. What security flaws were you trying to prevent and what security measures have you implemented to fix those flaws? How do you know that these measures will help prevent those issues from happening? Optionally you can cite external sources to provide evidence for your claim.

With the of a login page I was able to restrict the navigation to other pages by ensuring that a user had to be signed in or sign up before entering the main functionality of the webpage. Another feature of the web application was ensuring that every user input had some form of validation. For the sign up, for example, I ensured that each input was validated and not malicious, all validations were done server side as well. Another way that I increased security was by ensuring that all elements had an appropriate response header. These were implemented as suggested by Portswigger as to how to prevent XSS attacks, as seen in the link below. Additionally the login page would check to see if all the users information lines up, the username, password and type of user, in an effort to prevent a normal user to login as admin profile or vice versa.

<https://portswigger.net/web-security/cross-site-scripting>

6. Reflections: Challenges

What has been the most challenging part of this assignment for you? How has this stretched you as a programmer?

The most challenging part of the assignment has been the styling of the web app. I am not sure what it is about front end styling that I find so difficult but I find it very finicky and hard to get right. The grid system from vue helps but sometimes I find that the components just don't sit right.

7. Declaration: Additional Help

Any tools that you used (including Gen AI or existing code reuse) must be declared here.

Note: GenAI is not allowed for coding purposes in any assignment,

However, you may use GenAI for brainstorming and problem solving. You need to declare all such uses here. One row per help used.

Name	Description
ChatGPT for json data	I used ChatGPT to come up with JSON data for carers.json. I asked for a name occupation and description
Code from my weekly folios	The card display code was used for this project. When the user submits a review and displays a card, I have reused that with slight tweaking.