

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 unauthorized 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: ____Yipeng Wang____

Date: ____31/08/2024____

2. Github Check

Enter your Github details here.

Github Username <i>Enter your username here</i>	<Yipeng416>
A2 Shared? <i>Have you started and shared your assignment repository with your tutor yet?</i>	< https://github.com/Yipeng416/FIT5032.git >

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/1aRt0AgUep8opEFHWUcMdspL-lgQCh4D7/view?usp=sharing>>
(make sure in the access settings you have shared it with your tutor OR set the permissions so that anyone with Monash account can video the video)

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.

Firstly, I implemented input validation to prevent cross site scripting attacks (XSS). By strictly verifying and escaping the input content when users submit form data, malicious code injection is avoided. This measure effectively prevents users from entering malicious scripts and executing them on web pages. Secondly, I used client data verification to ensure that sensitive information entered by users (such as passwords) meets security standards. This helps prevent the use of weak passwords and ensures the security of user accounts. In addition, I also use local storage to store user login status, and promptly clear this data when users log out to avoid the leakage of sensitive information.

6. Reflections: Challenges

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

The use of router links in the navigation bar has caused me great inconvenience in terms of storing and calculating user data.

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
<i>ChatGPT for brainstorming ideas</i>	<i>I used ChatGPT to brainstorm how to use the router and design frame of the project because I was feeling stuck with router link and frame design.</i>
<i>bootstrap for navigation bar and footer</i>	<i>I used bootstrap's example as a template for coding.</i>