

1. Declaration

I, Ishita Gupta, declare that this assignment, titled 'Our Golden Hub', 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: _____ Ishita Gupta _____

Date: ____1st Sep, 2024_____

2. Github Check

Enter your Github details here.

Github Username <i>Enter your username here</i>	weavingandwandering
A2 Shared? <i>Have you started and shared your assignment repository with your tutor yet?</i>	https://github.com/weavingandwandering/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/1jKlgxtuJSmMcHbNajAeKmuD6hu-ADMzR/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.

In implementing security for my application, I have utilized bcrypt for hashing passwords, addressing critical security flaws associated with plaintext password storage. Passwords are hashed using bcrypt before storage in localStorage. This ensures that even if an attacker gains access to the storage, they cannot easily retrieve or exploit the plaintext passwords.

Bcrypt is a widely recognised hashing algorithm which is regarded as secure due to its resistance to various attacks and adaptive nature.

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 has been the backend and ensuring every part of the assignment has been covered. For each feature implemented, it also ensures that the edge cases work so that the website cannot be exploited. It also allowed me to widen my thinking scope and account for cases that I may not have

considered in the beginning.

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>Example: ChatGPT for brainstorming ideas</i>	<i>I used ChatGPT to brainstorm how to do X because I was feeling stuck with Y problem.</i>
ChatGPT for generation of content	ChatGPT was used to generate content on the page.