

1. Declaration

I, Peeradon Sootsukon, declare that this assignment, titled Youth Mental Health, 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: 

Date: ___17 October 2025___

2. Github Check

Enter your Github details here.

Github Username <i>Enter your username here</i>	P-Peeradon
Repository Shared? <i>Have you started and shared your assignment repository with your tutor yet?</i>	https://github.com/P-Peeradon/FIT5032-Assignment3-S2-2025

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 (D.1): External Authentication		<input checked="" type="checkbox"/>		
BR (D.2): Email			<input checked="" type="checkbox"/>	
BR (C.3): Interactive Table Data		<input checked="" type="checkbox"/>		
BR (D.4): Deployment to the Cloud		<input checked="" type="checkbox"/>		

BR (E.1): Cloud Functions		✓		
BR (E.2): Geo Location		✓		
BR (E.3): Accessibility			✓	
BR (E.4): Export			✓	
BR (F.1): Innovation			✓	

4. Screen Recording of BRs

Create a **3-5** 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).

5. BR F.1 - Innovative Features

If you have implemented BR F.1, list your choices below and a brief description of how you implemented it.

0	Exact name of innovative feature (copy-paste from assignment specs). E.g. "Bulk Email: The new Web Application must be able to send bulk email to selected users."	A brief, specific description (10-20 words) about how you implemented this in your web application. E.g. "I implemented bulk email to enable staff in my health charity website to send emails to multiple patients."	Recommendations for future upgrades (10-50 words)
1			
2			
3			
4			

6. Reflections: Challenges

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

Challenges arise in these events,
Conflict in using process.env: When loading the variable to browser, the error shows "Process not defined" as process. Fixed by shimming in [vite.config.js](#) and logging the value on console. The console.log is removed to avoid API Key leak.
Error in deploying cloud function: After loading cloud functions, it shows "triggers unknown" and deployment failed. Fixed by using \$firebase init with correct configuration and then try \$firebase deploy.
Error in caches files after deploying on Cloudflare: As I use continuous deployment with my Github repository, there may be some caches left in the Cloudflare system as the old files are not completely deleted from Cloudflare. Therefore, I performed manual purge.

I have just got pressures arise during the assignment work. I spend a lot of time on the assignment and then have inability to complete every features due to following reason.

- Spending a long time for fixing the error but they still happen.
- After a long work on the same assignment, I got overwhelmed. Even though I was granted the two days short extension. I spend time on 17th October 2025 - 18th October 2025 around 9PM and many issues in the program still arise until I cannot get the full load. That is the reason why I cannot complete the works ontime.

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, problem solving and learning. You need to declare all such uses here. One row per help used. More details on how to acknowledge the use of Gen AI can be found [here](#).

Name	Description
<i>ChatGPT</i>	<i>I used ChatGPT to brainstorm about API usage, in MapBox and SendGrid.</i>
<i>MapBox Website</i>	<i>I used the MapBox Website to search how to write code to set config on my map component and make dynamic map components based on loaded data.</i>
<i>Gemini</i>	<i>I used Gemini to advise about making a more robust structure while conserving my own features. All coding standards are implemented by myself by using idea generated from Gemini.</i>
<i>Gemini</i>	<i>I used Gemini to advise about shimming in vite.config.js as I need to use process.env in the frontend code and prevent conflict in .env loading.</i>
<i>AI Chat on Cloudflare</i>	<i>I chatted with the AI Chatbot on the Cloudflare website about the caches left in the system and how to write the \$npm command to clear caches node modules.</i>
<i>Gemini</i>	<i>I used Gemini to consult about using Pinia on my Web Application.</i>
<i>Gemini</i>	<i>I used Gemini to consult about implementing new functions and conserving my old</i>

	<i>functions on the website.</i>
<i>Gemini</i>	<i>I used Gemini to consult about services on Firebase. For example, using Firestore and Storage.</i>
<i>Gemini</i>	<i>I used Gemini to consult about way to use ECB concepts with my application. And all codes are implemented by myself. (Entity in JS class, Control in Cloud Functions, and Boundary on Vue.js) Naming convention is designated by myself. For example, fetch for GET data from firestore, write for POST text data, get for GET global data, upload for POST or PATCH images, and all functions have to be on Firebase Cloud Functions.</i>
<i>Gemini</i>	<i>I used Gemini to consult any meaningful functions for using with MapBox, like geocoding and directions.</i>
<i>Gemini</i>	<i>I use gemini to generate more data for my web application, like Geojson for three universities in Australia. All generated data have to be refactored by me before loading to the dataset to ensure data integrity.</i>
<i>Gemini</i>	<i>I use Gemini to generate Geojson objects to load into My MapBox Component. The data structure and format is designated by myself, also all rendering is coded by myself with appropriate comment for trace back. Gemini do only coding the entity into 4 decimal place coordinates and 12 point polygon geometry (for large features like university). The data is validated by me.</i>
<i>Gemini</i>	
<i>Gemini</i>	
<i>Google Cloud Log Explorer</i>	<i>When I was stuck with a problem about Google Cloud deploy, I used Google Cloud run Log Explorer to trace back and then found errors.</i>
<i>Primevue DataTable</i>	<i>I read PrimeVue DataTable for Documentation and how to make interactive table.</i>