## 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](https://www.monash.edu/learning-teaching/priorities-and-programs/assessment-and-academic-integrity/assessments-and-integrity-policy-and-procedure), which may include failing this assignment or the course, and further academic penalties.

Signature: \_\_\_\_\_\_\_Tianmu Rong\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_16/10/2025\_\_\_\_\_

## 2. Github Check

Enter your Github details here.

|  |  |
| --- | --- |
| Github Username  *Enter your username here* | [**rongtianmu\_fit5032**](https://github.com/Skylen112/rongtianmu_fit5032) |
| **Repository Shared?**  *Have you started and shared your assignment repository with your tutor yet?* | <link to your project>  <https://github.com/Skylen112/rongtianmu_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 (D.1): External Authentication | ✅ |  |  |  |
| BR (D.2): Email | ✅ |  |  |  |
| BR (C.3): Interactive Table Data | ✅ |  |  |  |
| BR (D.4): Deployment to the Cloud | ✅ |  |  |  |
| 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).

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| <Link to Google Drive Video>  (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)  <https://drive.google.com/file/d/1kSLWqGmFf_lONewKyr19Az048nyyYCZG/view?usp=sharing> |

## 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.

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| --- | --- | --- | --- |
| 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 | Bulk Email System | A bulk email feature was implemented using SendGrid integration to automate communication with multiple users simultaneously. The system retrieves subscribed users’ data from Firebase Firestore and sends personalised welcome or promotional emails while avoiding duplication through a flag attribute (hasReceivedWelcome). This feature enhances user engagement and allows the platform to deliver timely notifications, marketing updates, or service reminders efficiently. | We can consider the users experiences as long as they are not tired of the bulk emails |
| 2 | Appointment Booking with Calendar Constraints | The appointment booking module enables users to schedule sessions through an interactive calendar interface. It enforces date and time constraints to prevent overlapping bookings and ensures availability checks are performed in real-time. This function improves usability and streamlines scheduling workflows for both users and administrators. | We can set the validation to make sure the booking system by real user. |
| 3 | Map API Integration | The map functionality was developed using an external Maps API to provide location visualisation and navigation support within the application. The API retrieves and displays real-time geographic data, allowing users to view nearby service points or appointment locations interactively. This feature improves usability and spatial awareness, demonstrating effective external API integration. | We can make the api connection keys secure. |
| 4 |  |  |  |

## 6. Reflections: Challenges

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

|  |
| --- |
| I think the coding part is most challenging thing to me, especially to debug the errors. |

## 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](https://www.monash.edu/student-academic-success/build-digital-capabilities/create-online/acknowledging-the-use-of-generative-artificial-intelligence).

|  |  |
| --- | --- |
| Name | Description |
| *Example: ChatGPT for brainstorming ideas* | *I used ChatGPT to brainstorm how to do X because I was feeling stuck with Y problem.* |
| ChatGPT for translation | I used ChatGPT to translate Chinese text to English text in terms of title and description. |
| ChatGPT for features Design | I used ChatGPT to come up with the ideas on providing more ideas about features. |