



**UNSW**  
SYDNEY

## **University of New South Wales**

Software Engineering Workshop 3  
SENG3011

# **Management Information**

*Thicc Peas*

**z5238611** Hao Cheong

**z5259064** Brandon Green

**z5191527** Fanrui Li

**z5257129** Ryan Vu Anh Nguyen

**z5263663** Max Owen

# Table of Contents

<b>Table of Contents</b>	<b>2</b>
<b>1.0 Project Plan</b>	<b>3</b>
1.1 Team Member Responsibilities	3
1.1.1 Sprint 1) Web Scraper, API, API Documentation	3
1.1.2 Sprint 2) Website	4
1.2 Workflow Arrangement	4
1.2.1 Project Management	5
1.2.2 Meetings	6

# 1.0 Project Plan

## 1.1 Team Member Responsibilities

These are main roles for each team member during each sprint; each sprint corresponds to the 'stages' outlined in the [project specification](#). In general, as there are many different services required for the final project (Web-Scraper, API, API documentation website, web application, etc.) we have opted to have certain team members specialise in certain fields they have experience in to maximise efficiency.

### 1.1.1 Sprint 1) Web Scraper, API, API Documentation

Team Member	Role Name	Role Description
Hao Cheong	<ul style="list-style-type: none"><li>• Documentation Manager</li><li>• Webscraper Manager</li><li>• Google Cloud Developer</li></ul>	<ul style="list-style-type: none"><li>• Will coordinate documentation and report writing</li><li>• Manages design and development of the web-scraper</li><li>• Manages the Google Cloud deployment</li></ul>
Brandon Green	<ul style="list-style-type: none"><li>• Taskmaster (Project Manager)</li><li>• API Test writer</li></ul>	<ul style="list-style-type: none"><li>• Breaks down bigger tasks, assigns them to teammates and manages the Trello board</li><li>• Creates ideas and concepts for the project</li><li>• Designs the test needed to test the API endpoints</li></ul>
Fanrui Li	<ul style="list-style-type: none"><li>• API Developer</li></ul>	<ul style="list-style-type: none"><li>• Develops the API</li></ul>
Ryan Vu Anh Nguyen	<ul style="list-style-type: none"><li>• Team Coordinator</li><li>• API Manager</li><li>• Database Developer</li></ul>	<ul style="list-style-type: none"><li>• Makes meeting notes and organises meetings</li><li>• Manages design and development of the API</li><li>• Develops the database</li></ul>
Max Owen	<ul style="list-style-type: none"><li>• Database Manager</li><li>• Webscraper Developer</li></ul>	<ul style="list-style-type: none"><li>• Manages design and development of the database</li><li>• Develops web-scrappers for report data</li></ul>

### 1.1.2 Sprint 2) Website

Team Member	Role Name	Role Description
Hao Cheong	<ul style="list-style-type: none"> <li>Documentation Manager</li> <li>Web Developer</li> <li>Google Cloud Developer</li> </ul>	<ul style="list-style-type: none"> <li>Will coordinate documentation and report writing</li> <li>Develops the website</li> <li>Manages the Google Cloud deployment</li> </ul>
Brandon Green	<ul style="list-style-type: none"> <li>Taskmaster (Project Manager)</li> <li>Web Developer</li> </ul>	<ul style="list-style-type: none"> <li>Breaks down bigger tasks, assigns them to teammates and manages the Trello board</li> <li>Develops the website</li> </ul>
Fanrui Li	<ul style="list-style-type: none"> <li>Website Manager</li> </ul>	<ul style="list-style-type: none"> <li>Manages the development of the website</li> </ul>
Ryan Vu Anh Nguyen	<ul style="list-style-type: none"> <li>Team Coordinator</li> <li>Google Cloud Developer</li> </ul>	<ul style="list-style-type: none"> <li>Makes meeting notes</li> <li>Organises meetings</li> <li>Manages the Google Cloud deployment</li> </ul>
Max Owen	<ul style="list-style-type: none"> <li>Web Developer</li> </ul>	<ul style="list-style-type: none"> <li>Develops the website</li> </ul>

### 1.2 Workflow Arrangement

The following section describes how our team will communicate, meet and operate during the term.

Our team is anticipating a weekly workload of 6 - 7 hours per person for this project. This is subject to change, as we are unsure of the specifics of future deliverables and have not assigned tasks for these unknowns. We have a tentative Gantt chart to outline our future deadlines.

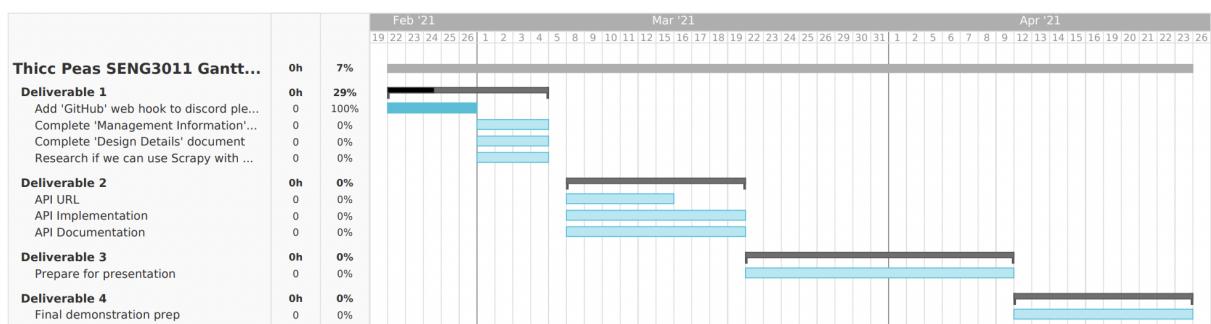


Figure 1. Gantt Chart

To check in on this work, we will be setting tasks and deadlines in our trello board (which has been linked to this gantt chart online), explained below.

### 1.2.1 Project Management

Main team communication as well as communication with the mentor shall occur on [Discord](#). Task-based project management will occur on a Trello board (below) where we shall utilise a Kanban style of task management. All reports, code and other deliverables shall exist on the [GitHub](#) repository.

On top of this, we also used ours Github's issue page to coordinate and distributed the required work and goals required to complete the assigned work. This allows us to better coordinate work and by using the github webhook, we are given constant updates to any changes made to the system

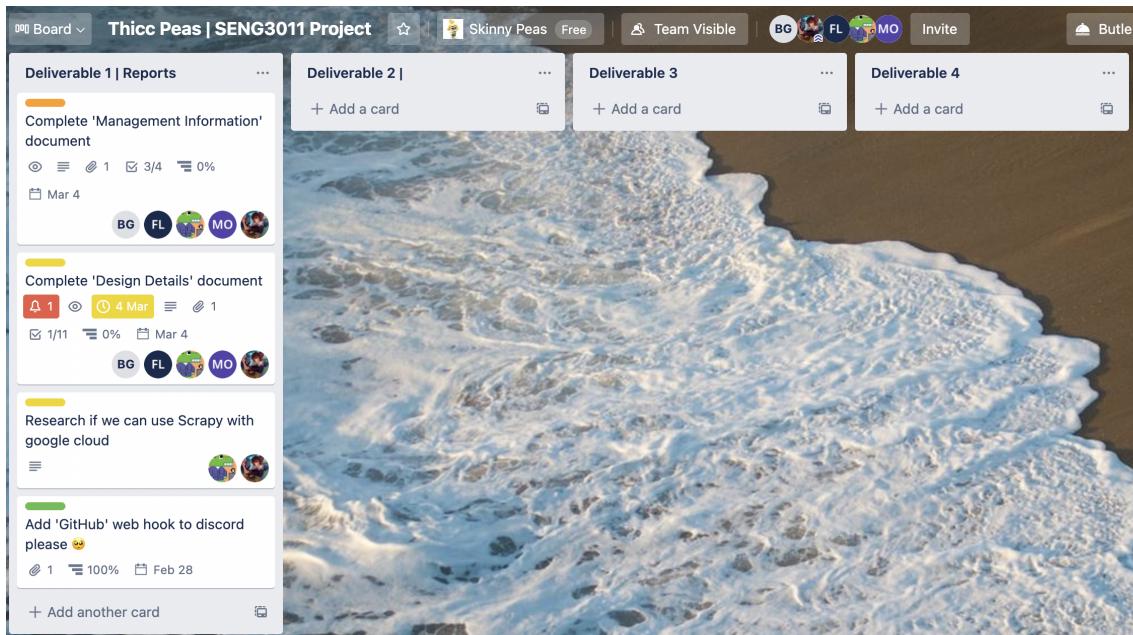


Figure 2. Trello Board

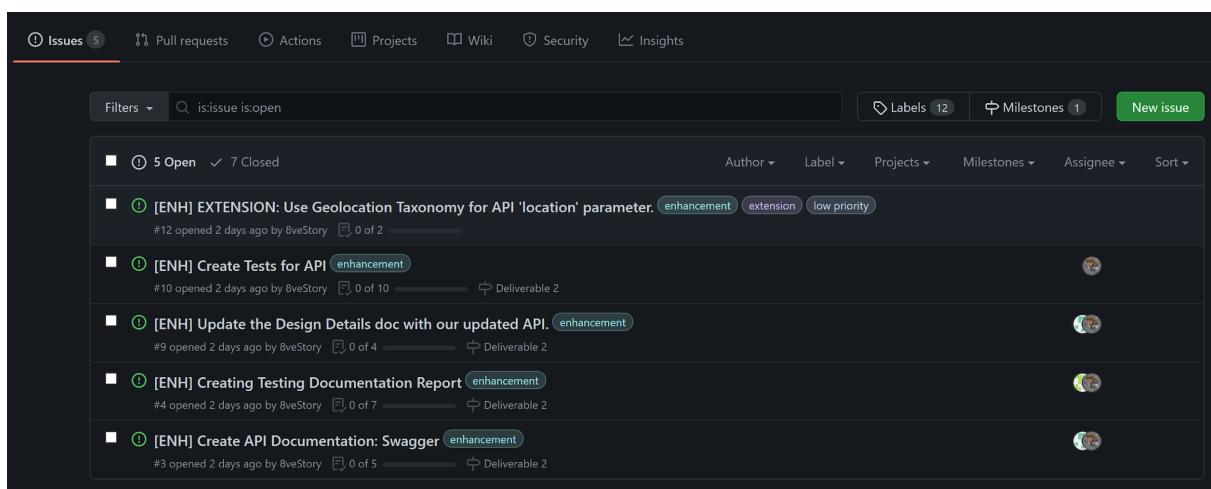


Figure 3. Github Issue Board

We shall perform branch-based development in the repository. Every new feature or task is allocated to a new branch. Once a feature is complete then a pull request (PR) can be raised to merge the feature branch into the main branch. After review by another team member the PR can be merged. We aim for feature branches to be active for a maximum of 7 days to minimise tedious merge conflicts with the main branch. Additionally, the main branch should always be in a stable state.

If time permits, unit tests and an automated build system will be implemented using GitHub Actions to ensure the stability of the main branch.

## 1.2.2 Meetings

The team shall meet every *Sunday at 1pm* as well as during the mentoring session on Thursday 7pm - 7:20pm. Additional meetings can freely be discussed and held on the Discord voice channels if required. All meeting notes shall be handled by 'Team Coordinator' who will publish the notes to Google Drive and the Discord (below). These meeting notes can be used to document progress and tracking important details which can be used to improve the quality of our final product. Any impromptu meetings will also have meeting notes made to ensure that every member is always updated to the progress of the project

The screenshot shows a Discord channel interface. At the top, there's a header with a padlock icon, the channel name 'meeting-minutes', a 'Meeting ...' button, a bell icon, a speech bubble icon, a search bar, and other navigation icons.

The main content area displays a message from 'Ryan' dated 'Yesterday at 3:43 PM' about 'Meetings 3 Notes (02/Mar/21)'. The message contains a bulleted list of tasks:

- Finished the 'Management Info' document.
- Decided on tech stack for Web Scraper: We're running the scraper on Google Cloud Function using Beautiful Sop. We are storing all the scraped data into Firebase

Below this message is a timestamp 'March 2, 2021' and a 'NEW' badge. To the right of the message list, there are two sections: 'ONLINE—3' and 'OFFLINE—2'. The 'ONLINE' section lists three users: Brandon (online), Hao (online with a crown emoji), and li (online). The 'OFFLINE' section lists two users: Max (offline) and Ryan (offline).

Figure 4. Discord meeting minutes