Project Management Information

Organisation and Responsibility

Table 8: Team members' responsibilities and strengths

Name	zid	Major responsibility	Strengths
Abhyudit Gupta	z5196145	Front-end, Project plan	Python, React, JS, HTML,CSS
Jiahui Luo (Lacey)	z5158415	Front-end, Project plan	JavaScript, React, Python
Haoran Xu (Matthew)	z5134675	Back-end, API design	Python, Flask
Yueru Duan (Ellen)	z5210986	Back-end, API design	Python, Flask
Ayaan Adil	z5213315	Back-end, API design	Python, web-scraping, Flask, Django

Based on the overall work of the project and the strengths of every member, our team was divided into two parts basically, front-end and back-end. Three of the members are mainly focused on building the API, and two of the members are responsible for the implementation of the web application. Since the first half of the project is mainly about building API, the front-end team will do work on the report and Swagger documentation. While during the second half of the project, the back-end members will work on the report, and then we may all collaborate to help in the implementation of the web application and efficient integration of multiple API's.

By the end, we hope the SENG3011 experience will be a big learning curve for us in terms of both learning to deal with different group dynamics and new web framework. We hope to encounter every challenge cumulatively and end with a product we are proud of.

Roles of Team Members in each Deliverable

Table 9: Team members' roles in Deliverable 1

Abhyudit & Lacey	Ayaan, Ellen, Mattew
Deliverable 1: ● Management information report	**Deliverable 1:** ● API design

○ Team responsibilities and work management ○ Decision making ○ Management tools ● Design Details Report ○ Justifying language ○ Justifying deployment host ○ Software Architecture	● Implementation & Justification of language, deployment and development environment. ● Web-scraper testing ● Parameter passing ● Exploring cloud functions ● Design Details report

Decision Making

During the project, decision making will be down to a vote after having a meeting to list all the alternatives and evaluate the advantages and disadvantages of every possible option. If members have conflicting decisions, we will go with the majority and further consult our mentor for what's best.

Group environments can be challenging for many reasons and if we encounter any problems during the project, we will as a team resolve the issue and try our personal best to solve it. Following may be the hurdles during the project:-

- Unresponsive API's.
- New exposure to cloud services and new frameworks.
- Development expectations and outcome.
- The poor performance of a team member or their missed deadlines.
- Communication gap with team members or our mentor.

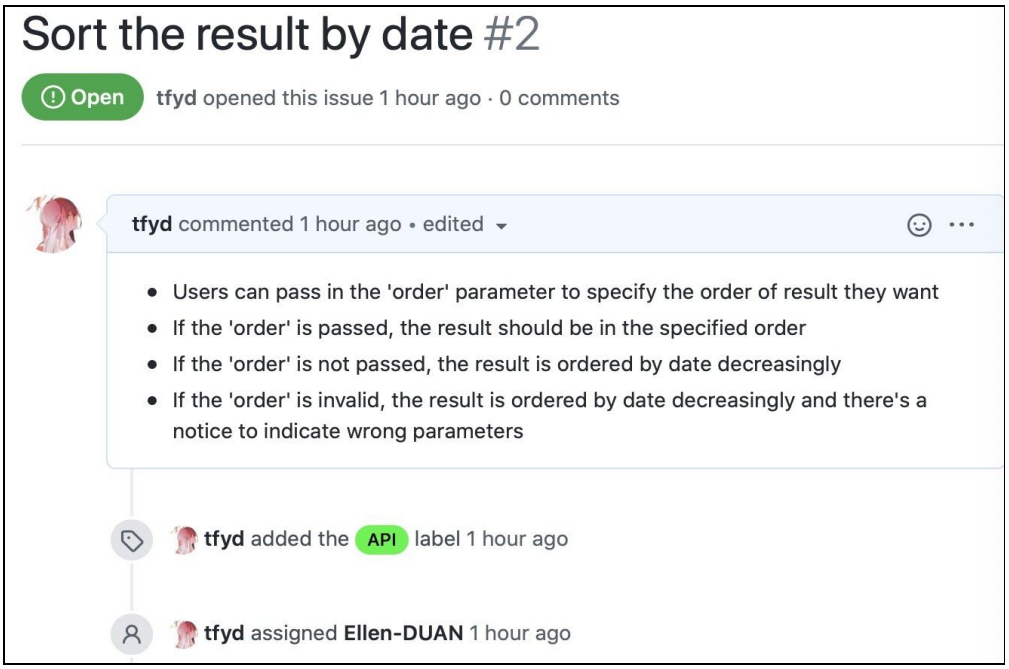
Communication

Since the members are located in different countries currently, most of the communication is conducted online.

- Weekly meetings
  - We will have at least two meetings every week using MS Teams. One of them discusses the progress and follow-up plans of the whole team with the mentor, and the other meeting talks about every member's progress and problem as well as assigning the following job if needed. The team members working on the same component may have meetings within a smaller group.
  - The most preferable meeting time is decided by doing polls on messenger group chat.
- Instant communication
  - We also have a Facebook messenger group for instant communication. If anyone encounters a problem, it is more efficient to ask in the group chat than waiting for the weekly meeting. If the issue is not solved within the group, we contact our mentor, Richard Liu.

Management Tools

- Task Management
  - The Github Issue Board is used for task control.
  - During each phase, the issues are created firstly.
  - The requirement and test criteria are written in the issue and the issue is assigned to one or more of the team members before actually starting to code.
  - When there are bugs, new issues are created for that.
  - All issues are clearly labelled.
  - The issue is closed when it has been implemented and tested.



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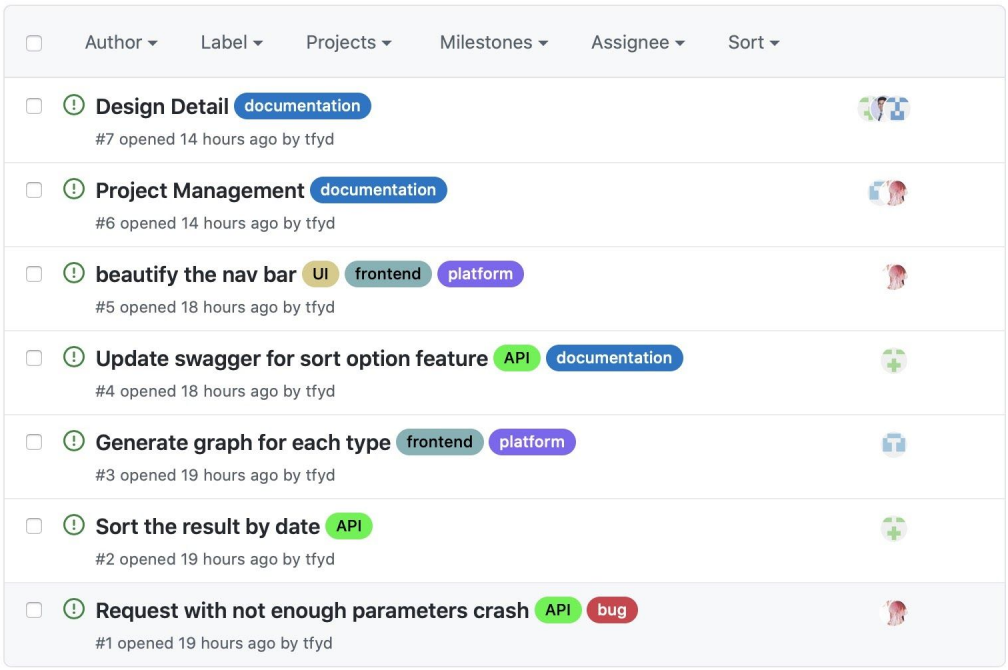

(b)

Figure 1: Github Issue board

- Code Management
    - We use Github as the tool for code management and version control. Each new feature will start from a new branch, and Github Pull Request is used to ensure the code in the master branch is the latest runnable version.
- Documentation
    - For documentation, we use google docs to collaborate with each other for the reports and other documents, such as API design. When there are conflicting ideas on the document, those are commented respectively on google docs, which are later resolved.
    - The final document will be uploaded on GitHub.