

D1 Management Information

Management Information

In this project, the team will create API module ourselves and build website based on the API. Additionally, the API module will also be able to use by other teams. In this group, the workload will be evenly distributed to each member and if someone finish early, he/she could help other member.

Group Member:

Name	zID	e-mail
Jiahao Zhang	z5266153	jiahao.zhang2@student.unsw.edu.au
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Shuhao Hu	z5241628	shuhao.hu@student.unsw.edu.au
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Dongfei Fan	z5211565	dongfei.fan@student.unsw.edu.au

Responsibilities & Work Arrangements:

In first three weeks, the team will need to design the API module and have plans to develop a web-application based on this API, which is the content of Deliverable 1.

Here is the work arrangements in details for Deliverable 1:

GitHub repository setup: [Shuhao Hu](#)

Reports\Design Details:

- (1) API module development and how to run it in web service: [Jiahao Zhang, Haochen Shi](#)
- (2) how parameters can be passed to your module and how results are collected: [Shuhao Hu](#)
- (3) Present and justify implementation language, development and deployment environment (e.g.Linux, Windows) and specific libraries that you plan to use: [Kexin Tian](#)

Reports\Management Information(initial plan): [Dongfei Fan](#)

Here is the responsibilities for future work:

Basically, in each part, the whole team will work together, and each person will be in charge of one part.

Practical role(part leader):

Practical role	Name
Backend	<u>Jiahao Zhang</u>
Frontend	<u>Shuhao Hu</u>
Database	<u>Haochen Shi</u>
Server Hosting	<u>Jiahao Zhang</u>
Web Scraper	<u>Haochen Shi</u>
API Design	<u>Haochen Shi</u>
API Module Build	<u>Jiahao Zhang</u>
API documentation	<u>Shuhao Hu</u>
API Implementation	<u>Dongfei Fan</u>
API Testing	<u>Kexin Tian</u>
Preliminary Web Designs	<u>Dongfei Fan</u>
Web Application Development	<u>Kexin Tian</u>

Devops work	<u>Kexin Tian</u>
Report / documentation writing	<u>Dongfei Fan</u>

And here is the rough Gantt Chart for work of future deliverables:

<https://unswseng.atlassian.net/jira/software/projects/SE3Y22G21/boards/53/roadmap>

Agile team roles:

Agile team roles	Name
Scrum Master(Team leader)	<u>Jiahao Zhang</u>
Project Manager	<u>Shuhao Hu</u>
Product Owner	<u>Haochen Shi</u>
Developer	<u>Jiahao Zhang</u> , <u>Shuhao Hu</u> , <u>Haochen Shi</u> , <u>Kexin Tian</u> , <u>Dongfei Fan</u>
Developmental Tester	<u>Jiahao Zhang</u> , <u>Shuhao Hu</u> , <u>Haochen Shi</u> , <u>Kexin Tian</u> , <u>Dongfei Fan</u>

Team Communication:

In this term, besides the mentor session, the team will arrange at least another two meetings to discuss the project content, questions remained in mentor session or lecture, and the work arrangements. If needed, for example, this part of work needs team members to work together, or having some unfinished work left before deadline, the team will also arrange meetings as many as needed. The minutes for meetings will be recorded by [Dongfei Fan](#).

In general, the weekly two meetings will be arranged on Tuesday afternoon(after the mentor session) and Saturday afternoon. On Tuesday, the team can discuss the problems from the mentor session and plan for next step of work. On Saturday, after several days of working on project, the team members can report what they have in last few days so that the team can sync progress, then have time to fix mistakes and prepare questions before mentor session in next week.

During meeting, there is no leader, so basically everyone could discuss what problem they have and then others could help with problems. For example, [Dongfei](#) throws a question and do not know how to solve that, but [Jiahao](#) knows, so [Jiahao](#) could help [Dongfei](#) to solve that, and if [Shuhao](#) has another opinion, he could also help with that. In this way, the group meeting is active and efficient. But if the problem is not huge, then the team can just solve it via chat. Therefore, the format of communication is mostly free discussing, there is no particular structure, just ask questions and solve problems. In this way, the team can gather as many ideas as possible to help with project processing.

For group meeting and group chat, the team would like to use **WeChat** as tool to have meeting. First, team members all have account of this software; Second, some of team members are not in Sydney right now, unlike other tools such as Messenger, WeChat does not need VPN to open, so that we can communication with each other more easily and quickly with no interference from network fluctuations; Third, this tool have enough functions that we can use for meeting, such as upload files, have video/audio meeting.

Software Tools used to assist project management:

The team use **Github** to store the documents and codes.

For github, the team will follow some **git practices** to make the github repository and project management more smooth:

- (1) The team flow *trunk-based development* to make branches more organized (merging small branches into master branch);
- (2) The team will use *issue identification tags* in commits, such as

```
SE3Y22G21-16: upload Management Information draft
```

- (3) The team will write *good commit messages* and proper description to make other team member easy to read and find commits;
- (4) The team will use *pytest* in *Github Actions*, which is kind of automated testing pipeline, to test the code before merge into master branch.

The team use **Jira and Confluence** to manage issues, roadmap, and so on. Also, Jira and Confluence can connect to Github repository to show each pull request for related issue.

- (1) The team will use confluence to write minutes, and may use that to create issues;
- (2) The team will connect roadmap to issue board to manage the issues;
- (3) The github will connect to jira issues.

The team use **Teams** to have mentor session and **Wechat** to communicate and have group meeting.

- (1) The team will use Teams to discuss with mentor and having meetings;
- (2) The team will use Teams to ask mentor questions about project;
- (3) The team will use WeChat to have group meetings and chat.