

## MCI project **First Milestone Report**

Team number: 36

Project Title: A Node.JS web application for synchronizing student grades from external sources to MyUni

Milestone 1	Activities	Planned Outputs	Achieved Outputs
Restate the milestone from your Draft plan.	Restate the key activities from your draft plan.	Restate the planned outputs from your draft work plan.	Outline the actual outputs compared to what was projected (or type "same as planned")
Understanding the existing mechanisms that synchronize student grades from external sources to MyUni. Clarified the purpose of the project and knowing how the data transfer from web submission to MyUni. Preparing for all the background knowledge and useful programming languages for the project. Learning how Canvas API works with MyUni. Building a test web page to suit the project with the key functions.	1. To understand and be familiar with HTTP, CSS, and Node.js.	1. Familiar with how a web page is built and learning the knowledge through W3School.	Same as planned.
	2. To understand Myuni and web submission file structures	2. Practice in the Sandpit in MyUni and be familiar with how the lecturer posts an assignment in Myuni and how to change results.	Start date late due to COVID-19. Still met the plan.
	3. Learn Canvas LMS - REST API.	3. Familiar with how to use Canvas API to post grades or comment on submission and learn to use Insomnia.	Start date late due to COVID-19. Still met the plan.
	4. Build a test web page.	4. Update a test file into Github.	Building the application to an independent web page.
	5. Discussing and rebuilding the web page.	5. Discussing with the supervisor and changing the API, algorithm, and structure of the file.	Start date late due to COVID-19 and still working with this output.
<b>Team reflection on progress</b>	Provide some comments below regarding the completion of this milestone specifically around: 1. How is the project progressing? 2. Are there any differences between projected and actual outputs/outcomes?		

1. Our project is processed and starts on time. However, it was stopped for several weeks due to the COVID-19 outbreak in Australia. After the Uni changed into studying home, our team members began to have meetings through Zoom and Wechat, and the project restarted. Firstly, we discussed and listed the knowledge we need to prepare for this project and learned HTTP, CSS, and Node.js through W3School and other learning websites. Secondly, based on the sandpit provided by our supervisor in Myuni, we begin to become familiar with assignment posts and result updates and modifications. Thirdly, through meeting with our supervisor through Zoom, we continue to learn Canvas API and Insomnia and know how to post and get information through Canvas API and begin to build a test web page and update it to Github. Finally. By contact with our supervisor, we begin to improve our web page and try to use CSV-parser instead of papa parser.
2. For our plan, we planned to build a plug-in based on Myuni. However, during the project process, we decided to build an independent web application actually. Furthermore, due to the outbreak of COVID-19, all the process of our project was delayed and all our team meetings had to change to use Zoom.
3. The actual output almost meets our plan. However, it still has a lot of places to improve. We overestimated our daily schedule and didn't take into account other external factors such as the assignment from other courses or other team members having extra courses. For the next milestone, we should have a careful plan in case the emergency occurs. In order to complete the project on time with commitment, we should make a checklist that helps us to track the progress and make adjustments in time.

### Team reflection on managing problems

Have you encountered any problems to date?  
If so, how have you managed them?

1. The first problem we meet is the outbreak of COVID-19. Team members afraid to meet each other and stayed at home, Now, our members are talking through Wechat and having meetings with Zoom.
2. The second problem is the lack of web design knowledge. Though we are all IT students, we rarely have any professional knowledge of web pages and databases before this semester. So, we first asked the supervisor to provide some sources for us to learn. After that, we also found many sources through the Internet and tried to become familiar with the knowledge we need.
3. The third problem is the way to treat CSV files. There are many ways to treat the data, such as using papa parser, CSV, or CSV-parser. After discussing with group members, we use papa parser at first, while after having a meeting with our supervisor, we are now trying to use CSV-parser.
4. The last problem is the communication problem. One of our team members lived in an area with a poor internet connection, which affected the communication with the team. The good news is that our community is getting safer, we can meet with each other soon.

### Supervisor assessment

Please, rate your team (1) effort, (2) project progress and (3) their self-reflection for milestone 1  
Rating scale 1-10 as per standard marking scheme, ie 5 is a Pass and 7 is a credit.  
Add some comments to explain your rating

Effort:

Progress:

Reflection: