MCI Project Weekly Time Sheet

Team	5	Student ID	a1790922		Week starting:	9

Day	Date	Time In	Time Out	Total hours	Task	How does it fit into project plan?	Outcome/Next action
Monday	9/05/2022	2:30 PM	3:30 PM	1	Testing	High-quality project delivery is inseparable from code testing.	I found a bug. When the user re-enters the course, the page retains the previous data instead of the newly fetched data. Other than that other functions are good.
Monday	9/05/2022	3:30 PM	6:30 PM	3	Bug fixing	I did some searching on Google and found that it was due to the asynchronous JavaScript, I solved the bug by learning about it.	Because the API takes time to return data, but the JS code will refresh the page immediately after execution. The data has not been returned at this time, which leads to this bug. I modified the code to get data from the API so that the program can wait for the acquisition to finish before continuing to execute. This solves the problem well.
Tuesday	10/05/2022	10:00 AM	1:00 PM	3	Add token verification in API	It improves the security of our project. Only authenticated users can use our APIs.	I added token validation to the API. Only valid tokens can use the API, otherwise a 401 Unauthorized Error will be returned. This makes our API available to only authenticated users, enhancing our data security.
Tuesday	10/05/2022	1:00 PM	4:00 PM	3	dependencyGrade API	The frontend can get the grade distribution of a given course and all courses that depend on the given course through this API.	This API is similar to the courseRelationship query, which can get the grade distribution of a given course and its dependency courses.
Tuesday	10/05/2022	4:00 PM	7:00 PM	3	Code review and remove useless functions	High-quality projects should keep the code lean.	I removed some code that we didn't need due to feature tweaks or auto-generated by the framework. Clear and concise code helps others read and understand our ideas.
Wednesday	11/05/2022						
Thursday	12/05/2022						
Friday	13/05/2022	2:00 PM	6:30 PM	4.5	Query efficiency optimization.	The clients doesn't want to wait too long for each query.	This is a continuation of last week's content. I learned about query builder by studying the documentation of Mongoose ODM. It allows us to combine multiple queries into one and reduce query time significantly. I have reduced our API query time by 2-3 seconds with this feature.
Friday	13/05/2022	6:30 PM	7:30 PM	1	Testing	High-quality project delivery is inseparable from code testing.	I unit tested all APIs after modifying the way I query. This ensures that all API functions are fully functional and unaffected.
Saturday	14/05/2022	10:00 AM	6:30 PM	8	Improve code reusability	Lower development risks and maintain product standards.	I merged some code in the course API that provided similar functions and encapsulated them into a unified function. This improves the code reusability of our project.
			Total	26.5			