MCI project Second Milestone Plan

Team: 7
Project Title: A Curriculum Mapping Tool

Milestone 2	Activities	Projected Outputs
Milestone 2: Implement all the functionalities required by the client and announce the Web Application 1. Complete rest webpages based on the architecture design stated in our first milestone. The Webpages are degree structure page, course relationships page, and searching result page. 2. Degree structure page will display the core courses, elective courses, projects, and available majors (if any) under a specific academic degree. In this page, a user can add, edit, or remove one or more courses towards corresponding degree. 3. Course relationship page will display pre-requisite courses and incompatible courses of a specific course. And it will also show the affiliation to the degrees. The user can also edit the information of corresponding course. 4. Searching result page will display the searching result for the user query. In this page, a user can search a course, a major, or a degree. 5. Link the webpages mentioned above together with the homepage which was finished in Milestone 1.	Confirm the existing client requirements and collect new requirements. Clarify what specific course data and degree data are required by the client.	Requirement documentation will be updated. It will list specific data that should be displayed on each webpage. As well as new requirements made by our client during this milestone if there is any.
	UI/UX designs for a course relationships page, and a searching result page.	UI/UX design for these two webpages will be created. The final appearance of our website will be based on the designs.
	Create API document to specify what APIs will be set up and used in the following development.	API document will show example of what the client request should be and what file and data will be respond from the server to client
	Generate an incremental testing plan that provides a framework for testers to conduct testing including but not limit to defect testing, unit testing and integration testing.	Testing will be conducted thoroughly and incrementally as stated in the plan, and any potential risks will be reported on time.
	The adding and updating function of courses will be implemented on the degree structure page.	A new entry for modifying courses in corresponding degree will be provided, new course data will be stored in the existing database. Deletion functionality is currently not offering in this milestone.
	The searching feature which covers all the degrees and courses data will be implemented.	A searching result page will be implemented to display the results taking from the database, the searching results should be accurate, robust and fault-tolerance.
	Set up the following APIs: ▪ handle user request for degree structure data. ▪ handle user request for course relationships data. ▪ searching for a course, a major, or a degree by its name. Perform request tests for every new API.	New APIs will be added in app.js file. The backend will add, query, delete, and modify the database according to user operations and requests. Pass all the tests and report potential risk if any.
	Implement the following pages: ▪ searching result page ▪ course relationships page ▪ degree structure page Present the degree structure, course relationships page as specified by the UI/UX design which were approved by the client. Perform end-to-end testing after implementing each page.	A searching-result-page.ejs file, a degree-structure-page.ejs file and a course relationship page.ejs file will be implemented, serving as the website's course relationships page. Some CSS files and JavaScript files will be created along to implement its UI/UX design. Pass all the tests and report potential risk if any.

*According to the client requirement, the six Computer Science degrees are: Bachelor of Computer Science, Bachelor of Information Technology, Master of Computer Science, Master of Computing and Innovation, Master of Cyber Security, Master of Artificial Intelligence and Machine Learning.

^We have already finished the UI/UX designs for homepage and degree structure page.

	Set up links: ▪ degree structure page to the course relationships page. ▪ homepage to the searching result page Perform system testing after implementing every link.	New APIs will be added in app.js. When a user clicks a course or search, the user will be directed to corresponding page. Pass all the tests and report potential risk if any.
	Perform integrated testing after completing the major parts.	All components can work well together.