

# Report

This report focuses on the CSCB63 course website built by Collin Chan and David Huynh using HTML, CSS and JavaScript for the frontend and Flask for the backend. As compared to the last iteration of the website built only with HTML and CSS, there were tremendous changes.

Firstly, with the added user system, David had created a login feature as it is very essential. This feature allowed users who have logged into their account on a particular browser to stay logged in using sessions. This also allowed access to the course website/course materials only when a user is registered and logged in. Secondly, David had also edited the Home page to display course staff that students are registered with and basic course information. On top of that, David had also worked on a Marking feature that allowed for instructors/TAs to automatically save grades to the database upon entering a grade change. This feature also shows a saving text to let instructors/TAs know whether their grades have been saved to the database. However, he was not able to get the page to automatically retrieve changed information and update the UI immediately. This is because of the limitations in the scalability of using long polling with Flask. Next, David created a Course Work page that allowed students to submit regrade requests after their assessments have been marked. Lastly, David had also altered the Lectures and Tutorials page so that instructors and TAs could edit/upload lectures or tutorial materials to the database respectively through a form and display to every user. All the features that David had worked on were around 50% of the assignment.

As for Collin, he had worked on the My Profile page which consisted of a card that displays user information respectively for users. He had also created simple forms and dropdown menus to allow users to update their profile information (ie. Update Office Location as an instructor) as well as account information (ie. Change Password as any user). This feature has a Saved indicator next to the page title after a successful form submission for any profile changes. In addition, he had also created a Feedback page that allowed for only Student users to submit anonymous feedback to their currently enrolled instructor and TA. Whenever a student is not enrolled with a TA, it will display instructions on how to change the information in the My Profile page. As for instructors or TAs, it will display the anonymous feedback that they received. This feature also contains a Saved indicator upon success form submission. Lastly, Collin has also created a responsive navigation bar for the website that changes upon different viewport widths. This was done by using effective media queries that would turn a normal topbar into just an icon if the viewport width is not wide enough to fit all header links properly. He had also created an animation for the icon to turn into an 'X' if the side navigation bar is toggled. This allows for a seamless experience for users of different types of devices. As a result, features that Collin had worked on were also around 50% of the assignment.