COMPSCI 4ZP6A - Capstone Project

Stage 1 - Group and Project Description

Group Member

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Description

We are making an academic planner program that helps university students to plan their degrees and manage their time.

The core feature is providing a planner that allows students to monitor courses in a top-down manner.

- Users will be able to add weekly course schedules and the program will generate each class session as a corresponding task such as a lecture review task, a reading task for that particular lecture or a note organizing task.
- Users will be able to add entries of tasks such as assignments, labs, and tests with the associated information including weight, and deadline, and link an assessment task to corresponding covered lectures.
- Users are able to check the task entries in a variety of calendar views, from an overview of the monthly calendar to an intermediate weekly timetable, or a zoomed-in daily routine. Different view interfaces provide different perspectives and information such that students can keep track of the courses and manage time in the most appropriate way.
- Users can also view all tasks in a To-Do List and check them off. All entries associated with the same course are highlighted in a particular colour; once a task is completed, it turns grey in all view interfaces mentioned above.

The program also provides a rich set of course-management and time-management features, including:

- allowing students to have a blueprint of their overall degree and to keep track of academic progress;
- providing data information for making program-related decisions;
- enabling students to plan their ongoing and upcoming semesters;
- offering features for users to record details about each of their courses including administrative information, assessment scheme and deadlines, etc;
- allowing students to record assessment marks, monitor in-progress grades and calculate the minimum mark requirements for outstanding assessments depending on their goal of courses;
- allowing students to generate a suggested weekly study plan based on their schedule and assignment priority/difficulty.

The program will be developed as a web application and will be implemented using the technology stack including: `MongoDB`, `Express.js`, `React.js`, `Node.js (MERN)`.