Project Overview

1.1 Project Background

Currently Canvas exists primarily as a learning management system that allows lecturers to upload slides, videos or links to external readings and students to navigate and access these learning materials. However, research shows that to optimize learning, a more reflective approach is needed. Reflective teaching allows tutors and lecturers to have a better understanding of what content engages students, and in turn enhance teaching methods to better suit the cohort. **Reflective learning can provide insight for students to identify their own weaknesses and provide valuable feedback to understand their own personal motivations.**

1.2 Project Objective

As it stands, Canvas does not currently facilitate any way in which students and teachers can quickly access data about their learning or teaching. For this reason, the project aims to create a dashboard for both students and teachers that **displays** learning analytics, inspiring introspection into one's own learning. In essence, the dashboard is meant to encourage members of the university to be more mindful and aware through data when approaching education.

1.3 Scope

The project can be broken down into two separate sections depending on which user is accessing the dashboard.

However, to further define our scope, we will need to test and discover the Canvas analytics endpoints to understand what data is available to us.

1.3.1 Student dashboard

The student dashboard must help the student reflect on his or her learning decisions by accurately showing their own contributions to their learning.

It must show:

- The number of times the student has clicked on each subject
- How long each student stayed on that subject
- How many videos were downloaded

1.3.2 Teacher Dashboard

The teacher's dashboard aims to aid lecturers to maximize student participation in their subjects.

This may be done by facilitating the needs of different student groups through careful analysis of differing motivations.

- Must be able to activate/deactivate the dashboard for their own respective subject
- Data showing student participation and interaction with the subject
    - Interaction with discussion board
    - Number of times lecture was watched
    - Number of times lecture capture was accessed
    - Number of times quiz was attempted
    - Number of times files were downloaded
    - Time spent in subject directory
- Student feedback option