Project Overview

Background

Canvas

Canvas is an online learning management system for instructors and students to publish, share and download materials. It is designed to make teaching and learning easier for everyone. Currently, it is being used by all students at the University of Melbourne.

H5P

H5P is a free and open-source content collaboration framework based on JavaScript, which help people to create richer HTML5 content in existing publishing platforms, share content seamlessly across any H5P capable sites, and reuse and modify content in your browser at any time.

Canvas H5P Analytics

Currently, the canvas platform is missing one important feature: a real dashboard(a visualized analytic report) for students that allows them to review and reflect on their learning skills. By using the analytic dashboard, students can visualize how they are accessing, interacting, and performing in a subject, and make improvements from their reflections.

The dashboard available right now is more like a list of subjects that students are doing. It is not providing useful information for students to reflect on how they are using the canvas platform.

Project Problem

The problem is to develop a student facing dashboard/visualizations in Canvas through H5P.

This project works to address the low functionality of the dashboard pages and we will seek to add the following features.

- **Student:**
    - Graphical display of specific information about each course and access history (including but not limited to discussion boards, assignments, modules, etc.)
    - Expanding the to-do list information (adding a countdown timer, showing the urgency of things by color)
- **Teacher:**
    - Graphical display of specific information and access records for each course (including but not limited to discussion boards, announcements, assignments, modules, etc.)
    - Quickly customize new content (H5P) to enable rapid deployment of new announcements, modules etc.

Scope of solution

In Scope:

The system-to-be should:

- enable the instructors to easily create dashboards to students
- enable the instructors to customize the interface based on special needs
- enable the instructors to select data, which is considered to be helpful for student learning, to be added into the dashboard/visualization /analytic report
- enable students to gain insights from the dashboard
- help students to make better use of the Canvas platform and perform better in the subjects.

Out of Scope:

- The development team will only focus on the front-end interface and the development of the H5P plugin, without the need to implement the corresponding back-end and database
- The system-to-be should not record student usage data, which is done by Canvas

Resources

Canvas LMS: https://www.instructure.com/canvas

H5P: https://h5p.org/

H5P Wiki: https://en.wikipedia.org/wiki/H5P