Learning Management System

1 Introduction

Learning management systems (LMS), such as Blackboard, Moodle, Canvas, and D2L, are tools for helping with administering educational courses. Since the massive growth of online learning in the post-pandemic era, use of these and other related systems, such as Gradescope for the delivery of online assignments, have skyrocketed. Unfortunately, not all aspects of the systems are well-suited for their intended purpose and many aspects could be better designed.

Your team will take a component of an LMS or related system and identify the problems that inhibit its usefulness and design and prototype a replacement component. Alternately, your team can identify a component from such a system that is missing and design a suitable component. As part of your design, you must identify in what ways the LMS is deficient and how your proposed solution will remove these deficiencies.

This project is open-ended. You have the freedom to choose the component that you will replace, as well as the language or other tools that you will use to implement the prototype replacement. Depending on the component, you may be designing tools for use by students, educators, or both.