

MSE Capstone Project

Learning Outcomes done right

Overview

Write a web application that manages the student learning outcomes (SLO)s for academic programs within a University setting. The application allows faculty to write SLOs for programs and courses. The application also allows faculty to attached documents (of any kind) to any SLO. Each document is time-stamped, versioned, and titled.

Details

An SLO is just a short statement (one or two sentences) that describe a specific objective of some academic program. From a computational perspective, an SLO is just a small chunk of text. Programs have a collection of SLOs and are also associated with a collection of courses and a collection of other programs. A course is a collection of SLOs. Each SLO at the program level is also associated with a subset of the course-level SLOs.



The figure above gives an idea of the data managed by the app. A user must be able to find and navigate through programs, courses and SLOs. In the above figure, the user is viewing program “PGM 4”

which gives a snapshot of programs, courses and SLOs related to “PGM 4”. Clicking on any of the displayed items will navigate to another page of information specific to that item.

Skills

The project requires high-level skill with HTML, CSS, Json and JavaScript as well as SQL and some type of server-side technology (preferably JEE). This project will require very careful attention to the UI; the project will not be successful if the user experience is poor.