COMP39/9900 Computer Science/IT Capstone Project
School of Computer Science and Engineering, UNSW

Project Number: P16

Project Title: Successful Outcomes

Project Clients: Sonit Singh

Project Specializations: Software development; Web application development; Big data analytics and visualization.

Number of groups: 3

Background:

With the changing educational landscape, it is important that students must achieve outcomes successfully for which they are originally enrolled. Bloom's taxonomy provides a two-dimensional framework for identifying, categorising, and scaffolding learning outcomes with a cognitive emphasis. A web application to support such mapping can give students better successful outcomes, allow schools and universities to identify gaps in course offerings as well as redundancies, and help schools to utilise evidence-based information for accreditation purposes.

Requirements and Scope:

The aim of the project is to build a tool to map course learning outcomes in a program to assess cognitive levels incorporating Bloom's Taxonomy. The Bloom's taxonomy divides learning objectives into six levels, each indicating a different cognitive process.

The project will be provided access to course outlines for various CSE programs. The goal is to extract course learning outcomes and map to Bloom's taxonomy levels.

Required Knowledge and skills:

For this project, we will be using web development frameworks such as MERN (MongoDB, Express, React.js, and Node.js) but open based on the skills of the group.

Expected outcomes/deliverables:

The team working on the project should deliver a written report on the project, source code, and working web application.

Supervision:

Sonit Singh

Additional resources:

https://www.utica.edu/academic/Assessment/new/Blooms%20Taxonomy%20-%20Best.pdf