

Course Assessment Tool

Design Document

CSE 4101

Computer Science Projects

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Class Descriptions:

User

Main log-in page on Moodle that will redirect user based on type

Professor

Home-page for professors after successful log-in.
Provides limited access to Course(s) through Prof_Course.

Admin

Home-page for admins after successful log-in.
Provide control access to Course and data analysis related methods.

Grad_Student

Home-page for graduate students after successful log-in.
Currently is a mask of Student.
Included for possible added functionality in the future.

Student

Home-page for students after successful log-in.
Provides limited access to Course(s) through Stud_Course

Course

Template class for Prof_Course and Stud_Course.
Main updater of database.

Prof_Course

subclass of Course
Provide controlled access to Professor related course aspects such as Course Outcomes.
Professor is where student course achievements are filled in by the Rate_Student() method.

Stud_Course

subclass of Course
Provide controlled access to Student related course aspects such as getting Course Achievements.

Course_Outcomes

A specific set of ~7 course outcomes exist per course.
A course outcome is a learning objective that should be attained by students by the end of the course.
Student Achievement will be based upon weighted course outcomes.

Survey

Interface class for all surveys.
Provides all basic functions that each survey will need.

Class_Satisfaction_S

Preset Instance of Survey (Questions and response types)

Will be the same survey no matter what the course is.

Survey will have students rate different aspects of the class on a scale (1-5) with additional questions requesting comment feedback. (ie an aspect of a class could be relevant homework or useful feedback on assignments)

Self_Achievement_S

Preset Instance of Survey (Questions and response types)

Survey will be based off of course outcomes and students self rating.

Additional questions requesting comment feedback (such as what topics should be added or removed from the course)

Program_S

Preset Instance of Survey (Questions and response types)

Survey results will all be comments (strings) to various questions about their degree program.

Same survey no matter what degree program.

(sample questions: what courses did you find valuable and why, what courses did you not like and why, suggestions for improvement)

Database Schema

