Final project for CS 306: Advanced Web Development

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The application represents a mass online course platform.

Users and instructors follow the same login form but are redirected to different screens. If a student attempts to log in as a teacher or a teacher tries to log in as a student, the login will fail. I did not manage to work on security. The app would require several improvements to be used in the real world. Overall I tried to use various methods for similar functionalities in order to prove a variety of skills acquired during this and other web developments course.

Some user stories and featires are presented below:

After the user logs in, they can open the list of all courses and their chapters and also the list of courses in which the user is enrolled. They can also see how many points they have achieved and choose to change their password.

Users can be enrolled in as many courses as they desire and each course can be taken by any user. The table User\_course keeps track of enrollments. At the beginning of the enrollment the grade is set to “F” and it changes once the user has passed the course.

In order to pass a course, the user has to pass all quizzes (get more than 40 points). The user cannot retake a quiz (attempts are detected).

Each course is associated with a set of skills and skills are associated with specific fields.

When the user attempts to take the last quiz: Quiz 3, the user must pass it in order to be considered for a higher score. If the user fails the quiz, then it means it failed the course and no points can be given for failed courses.

Points are given for the following criteria:

>course grad

>new skills achieved by taking the course

>skills in new fields achieved by taking the course

>reached a certain threshold of skills

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List of entities:

Users

Instructors

Courses

Quizzes

Skills

Functionalities:

User and instructor log in, log out

User registration

User change of password

Display the points of a user

Display list of all courses

Display list of enrollments

Display courses of an instructor

See the content of a course

Take a quiz of a course

Register the results of a quiz

Check and update the grade for a course

Add points to the user score

Check user skills

Check fields of user skills

Note 1: I have used UwAmp for developing the application.

Note 2: I have used MDBootstrap as a CSS library

Note 3: Here are some logins for testing:

User: [maximo@act.edu](mailto:maximo@act.edu) user

Instructor: [ng@act.edu](mailto:ng@act.edu) instructor