SWENG 500

Learning Management System

Test Document

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**INTRODUCTION**

This document will serves as a guideline for testing of the Learning Management System and its expected functionality and behaviors.

**TEST METRICS**  
----------e.g. test coverage, test span, test effort, complexity

**TEST PLAN**  
----------Conduct of testing, etc.

**TEST CASES**

***Instructor Interface***

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| **Test Case** | **Test Result** |
| Create a new course | New course with all required components have been created. |
| Edit a course | Content within existing course has been updated, content files have been uploaded, and content files have been deleted. |
| Delete a course | All data and files associated with a specific existing course have been deleted from the system and the course entry has been removed from the course catalog. |
| Archive a course | The archival flag has been set for existing course and the course entry has been removed from the course catalog. |
| Upload content file(s) | The content file(s) have been uploaded into the storage area. |
| Delete content file(s) | The content file(s) have been deleted from the storage area. |

***Student Interface***

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| **Test Case** | **Test Result** |
| Login | Student logged into LMS home page |
| Add Course | Course added to student roster |
| Delete Corse | Course deleted from student roster |
| View course info | Course description, title, number etc. displayed |
| Print certificate | Certificate page sent to selected printer |
| View Student roster | List of courses student is enrolled in are displayed |
| Exit course | Course is exited and progress marked |
| Launch course | Course content is loaded and starts |
| Take Test | Test score is provided after completion and course status updated |
| Pause Course | Course player stops. Pause button toggles to Play. Course does not resume until student presses play again |
| Skip course topic | Course proceeds to next module. Skipped module remains incomplete |
| Advance next screen | Course advances to next screen in lesson |
| Turn on Closed captioning | Text accompanies audio lesson. |
| Create Bookmark | Marks course progress. At next student login, course starts at bookmarked lesson / screen |
| View Course History | Completed/Incompleted courses displayed with dates of completion |

***Database***

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| **Test Case** | **Test Result** |
| Create a new course | The new course and related information are stored in the database. |
| Edit a course | All modifications related to the course in context have been saved in the database. |
| Delete a course | The course is soft-deleted by being marked as not enabled in the database. |
| Create a new lesson | The new lesson and related information are stored in the database. |
| Edit a lesson | All modifications related to the lesson in context have been saved in the database. |
| Create a new educator. | The new educator and related information are stored in the database. |
| Edit an educator. | The modifications related to the educator in context have been saved in the database. |
| Add a file | The file is saved to the application server file system and a database record is added with a link about and information about the file. The file could be associated with: a private message, assignment instructions, assignment hand-in (from student), a lesson, or a course. |
| Create a new student | The new student and related information are stored in the database. |
| Edit a student | The modifications related to the student in context have been saved in the database. |
| Student Joins a Course | A record is saved in the database to mark the student as being associated with a course. |
| Student Leaves a Course | A record is removed from the database to mark the student as being associated with a course. |
| Create Assignment | The new assignment and related information are stored in the database. |
| Delete Assignment | The assignment in context is deleted from the database. |
| Create Private Message | The new private message and related information is added to the database. |
| Delete Private Message | The private message in context is deleted from the database. |
| Create a Grade | The new grade and related information is added to the database. |

***Backend***

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| **Test Case** | **Test Result** |
| Create a new course | New course with all required components have been created. |
| Edit a course | The course object is updated and saved to the database. |
| Delete a course | All data associated with a specific existing course have been deleted from the system and the course entry has been removed from the course catalog. |
| Authenticate user | The user information is validated against the database and a success is returned. |
| Add user | New user with all required information is created and saved. |
| User enrolled in course | The course roster is updated and saved. |
| Validate Prerequisites | The user is validated against prerequisites and a success flag is returned. |
| Upload course content | The content is added to the course and saved to the database. |
| Delete course content | The content is removed from the course and updated to the database. |

**TEST RESULTS**  
----------Results of the testing