**Learning Management System**

**Test Cases:**

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| # | Description | Pass | Fail |
| 1 | **Log into the Learning Management System as an Administrator**  Users: Administrator, Student  Pre-conditions:   * User is not logged into the system   Steps:   * Enter a valid username * Enter a valid password * Click login   Post-conditions:   * User should be able to login to the LMS |  |
| 2 | **Invalid: Log into the Learning Management System as an Administrator**  **with wrong credentials**  Users: Administrator, Student  Pre-conditions:   * User is not logged into the system   Steps:   * Enter an invalid username or password * Click login   Post-conditions:   * User should NOT be able to login to the LMS since they provided the wrong credentials |  |
|  | **Create a New Student Account**  Users: Administrator  Pre-conditions:   * User is logged in as an administrator   Steps:   * Click on the “Create New Student” button * Enter Students First Name * Enter Students Last Name * Enter Student Id * Enter each course the student is registered in for the current semester   Post-conditions:  User should be able to create a new student account |  |
|  | **Create Courses for a student to choose to enroll in**  Users: Administrator  Pre-conditions:   * User is logged in as an administrator   Steps:   * Click on the “Add Courses for Semester” button * Enter a Course Id * Enter a course name * Enter a course time   Post-conditions:  User should be able to create new classes for students to register in |  |
|  | **Edit a Course from the roster**  Users: Administrator  Pre-conditions:   * User is logged in as an administrator * Courses have already been created for the user to view   Steps:   * Click on the “Edit Courses for Semester” button * Select a course * Click the “Edit” Button * Enter a Course Id * Enter a course name * Enter a course time   Post-conditions:  User should be able to edit classes for students to register in |  |
|  | **Delete a Course from the roster**  Users: Administrator  Pre-conditions:   * User is logged in as an administrator * Courses have already been created for the user to view   Steps:   * Click on the “Edit Course for Semester” button * Select a course * Click the “delete” button   Post-conditions:  User should be able to create delete classes |  |
|  | **Register a Student for Classes**  Users: Student  Pre-conditions:   * User is logged in as a student * The Administrator has already added courses to the roster   Steps:   * Click on the “Courses” button * Click on the “Register for Class” button * Select a course from the menu * Click the “Add Course” button   Post-conditions:  User should be able to register for classes |  |
|  | **Drop from Classes as a student**  Users: Student  Pre-conditions:   * User is logged in as a student * Student is already registered for classes   Steps:   * Click on the “Courses” button * Select a course * Click on the “Drop from Class” button * Select a course from the menu * Click the “Drop Course” button   Post-conditions:  User should be able to drop from classes |  |
|  | **Drop a Student from a class as an administrator**  Users: Administrator  Pre-conditions:   * User is logged in as an administrator * Student is already registered for classes   Steps:   * Click on the “Courses” button * Select a course from the menu * Select a student from the menu * Click on the “Drop Course” button   Post-conditions:  User should be able to drop a student from classes |  |
|  | **Update a Student’s Account**  Users: Administrator |  |
|  | **View list of all courses a student is currently enrolled in**  Users: Administrator, Student |  |
|  | **Enter an exam grade for a Student**  Users: Administrator |  |
|  | **Update an exam grade for a Student**  Users: Administrator |  |
|  | **Delete an exam grade for a Student**  Users: Administrator |  |
|  | **Show Calculation of a single Student’s GPA for a single course**  Users: Administrator, Student |  |
|  | **Show Calculation of a single Student’s GPA for entire semester**  Users: Administrator, Student |  |
|  | **Show Calculation of all Students GPA in a single course**  Users: Administrator |  |
|  | **Show Calculation of all Students GPA in all courses for entire semester**  Users: Administrator |  |
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