**Test Cases:**

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| # | Description | Pass | Fail |
| 1 | **Log into the Learning Management System as an Administrator**  Users: Administrator, Instructor, 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 | PASS |
| 2 | **Invalid: Log into the Learning Management System as an Administrator**  **with wrong credentials**  Users: Administrator, Instructor, 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 | PASS |
|  | **Create a New Student Account**  Users: Administrator  Pre-conditions:   * User is logged in as an administrator   Steps:   * Click on the “Add Student” button * Enter Student ID * Enter Students Registration Date * Enter Students Username * Enter Students Password * Enter Students First Name * Enter Students Last Name * Enter Students GPA * Enter Last Log   Post-conditions:  User should be able to create a new student account | PASS |
|  | **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 Course” 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 | PASS |
|  | **Remove a Course from the roster**  Users: Administrator  Pre-conditions:   * User is logged in as an administrator   Steps:   * Click on the “Remove Course” button * Select a course * Click the “OK” button   Post-conditions:  User should be able to remove classes | PASS |
|  | **Add a new faculty member**  Users: Administrator  Pre-conditions:   * User is logged in as an administrator * The administrator has already added courses to the roster   Steps:   * Click on the “Add Faculty” button * Enter Instructor ID * Enter Username * Enter Password * Enter First Name * Enter Last Name * Enter Gender * Enter Department * Click the “Save” button   Post-conditions:  User should be able to add a faculty account | PASS |
|  | **Remove a faculty account**  Users: Administrator  Pre-conditions:   * User is logged in as an administrator   Steps:   * Select member from the table * Click on the “Drop Faculty” button * Click the “OK” button   Post-conditions:  User should be able to remove faculty account | PASS |
|  | **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 “Load Table” button * View the Available Classes table * Select a course from the menu * Enter course name in edit box next to “Add Class” button * Click on the “Add Class” button * Click the “Ok” button   Post-conditions:  User should be able to register for classes | PASS |
|  | **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 “Load Table” button * Select a course from the classes table * Type the courses ID * Click on the “Drop from Class” button * Click the “OK” button   Post-conditions:  User should be able to drop from classes | PASS |
|  | **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 | PASS |
|  | **View list of all courses a student is currently enrolled in**  Users: Administrator, Instructor, Student  Pre-conditions:   * User is logged in as an administrator, instructor, or student * Student is already registered for classes   Steps:   * Click on the “Load Table” button * Select a course from the menu * Select a student from the Enrolled Students table   Post-conditions:  User should be able to view all courses of a student | PASS |
|  | **Enter an exam grade for a Student**  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 “Enter Grade” button   Post-conditions:  User should be able to enter a grade for a student | PASS |
|  | **Delete an exam grade for a Student**  Users: Administrator, Instructor  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 “Delete Grade” button   Post-conditions:  User should be able to delete a grade for a student | PASS |
|  | **Show Calculation of a single Student’s GPA for a single course**  Users: Administrator, Student  Pre-conditions:   * User is logged in as an administrator * Student is already registered for classes   Steps:   * Click on the “Grades” button * Select a course from the menu * Select a student from the menu * Click on the “View Grade” button   Post-conditions:  User should be able to view a grade for a student for a single course | PASS |
|  | **Show Calculation of a single Student’s GPA for entire semester**  Users: Administrator, Instructor, Student  Pre-conditions:   * User is logged in as an administrator * Student is already registered for classes   Steps:   * Click on the “Grades” button * Select a course from the menu * Select a student from the menu * Click on the “View Overall Grade” button   Post-conditions:  User should be able to view a grade for a student for all courses | PASS |
|  | **Show Calculation of all Students GPA in a single course**  Users: Administrator, Instructor  Pre-conditions:   * User is logged in as an administrator * Student is already registered for classes   Steps:   * Click on the “Grades” button * Select a course from the menu * Select all students button from the menu * Click on the “View Grade” button   Post-conditions:  User should be able to view a grade for all students for a single course | PASS |
|  | **Show Calculation of all Students GPA in all courses for entire semester**  Users: Administrator, Instructor  Pre-conditions:   * User is logged in as an administrator * Student is already registered for classes   Steps:   * Click on the “Add Grades” button * Select a course from the menu * Select all students button from the menu * Click on the “Student Grades” button   Post-conditions:  User should be able to view a grade for all students for a semester | PASS |