TEST REPORT

Test Case 1: Create and Update Role

Test Case ID: TC_LMS_001
Test Case Title: Create and Update Role in the LMS Application

Test Scenario:

- Create a new role.
- Update the role details.
- Verify that the role is correctly created and updated.

Preconditions:

- The LMS application should be running.
- The necessary services and repositories are initialized.

Test Data:

- **Role ID**: "R001"
- **Initial Role Name**: "Instructor"
- **Updated Role Name**: "Senior Instructor"

Test Steps:

1. **Step 1**: Create a new role using the initial role data.
2. **Step 2**: Verify that the role is created with the correct details.
3. **Step 3**: Update the role name from "Instructor" to "Senior Instructor".
4. **Step 4**: Verify that the role name is updated correctly.

Iteration 1: Fail Case

Iteration Summary:
An intentional mistake in the role creation process where the role name is incorrectly set.

Test Input:

- **Role ID**: "R001"
- **Role Name**: "Instuctor" (Intentional typo)

Expected Output:

- Role creation should fail or proceed with incorrect data.
- Role update should either fail or proceed incorrectly.

Actual Output:

- Role creation proceeds with the incorrect name "Instuctor".
- Role update fails due to the incorrect initial role name.

Test Result: FAIL

Remarks:

- The role name was not validated during creation.
- The system allowed an invalid role name.

Iteration 2: Pass Case

Iteration Summary:
The error from the first iteration is fixed, and the role is created and updated correctly.

Test Input:

- **Role ID**: "R001"
- **Role Name**: "Instructor"

Expected Output:

- Role should be created with the name "Instructor".
- Role name should be updated to "Senior Instructor".

Actual Output:

- Role created successfully with the name "Instructor".
- Role updated successfully to "Senior Instructor".

Test Result: PASS

Remarks:

- The issue from the first iteration was resolved.
- Role creation and update flow works as expected.

Final Test Report Summary

Iteration	Test Case ID	Test Case Title	Result	Remarks
1	TC_LMS_001	Create and Update Role	FAIL	Typo in role name, update failed.
2	TC_LMS_001	Create and Update Role	PASS	Fixed typo, role created and updated successfully.

Test Case 2: Create and Update User

Test Case ID: TC_LMS_002
Test Case Title: Create and Update User in the LMS Application

Test Scenario:

- Create a new user.
- Update the user details.
- Verify that the user is correctly created and updated.

Preconditions:

- The LMS application should be running.
- The necessary services and repositories are initialized.

Test Data:

- **User ID**: "U001"
- **Initial Full Name**: "Prathik"
- **Updated Full Name**: "Prathik D."

Test Steps:

1. **Step 1**: Create a new user using the initial user data.
2. **Step 2**: Verify that the user is created with the correct details.
3. **Step 3**: Update the full name from "Prathik" to "Prathik D.".
4. **Step 4**: Verify that the user's full name is updated correctly.

Iteration 1: Fail Case

Iteration Summary:
An intentional mistake in the user creation process where the user's full name is incorrectly set.

Test Input:

- **User ID**: "U001"
- **Full Name**: "Prathk" (Intentional typo)

Expected Output:

- User creation should fail or proceed with incorrect data.
- User update should either fail or proceed incorrectly.

Actual Output:

- User creation proceeds with the incorrect name "Prathk".
- User update fails due to the incorrect initial full name.

Test Result: FAIL

Remarks:

- The user's full name was not validated during creation.
- The system allowed an invalid name.

Iteration 2: Pass Case

Iteration Summary:

The error from the first iteration is fixed, and the user is created and updated correctly.

Test Input:

- **User ID**: "U001"
- **Full Name**: "Prathik"

Expected Output:

- User should be created with the name "Prathik".
- User's full name should be updated to "Prathik D.".

Actual Output:

- User created successfully with the name "Prathik".
- User's full name updated successfully to "Prathik D.".

Test Result: PASS

Remarks:

- The issue from the first iteration was resolved.
- User creation and update flow works as expected.

Final Test Report Summary

Iteration	Test Case ID	Test Case Title	Result	Remarks
1	TC_LMS_002	Create and Update User	FAIL	Typo in user name, update failed.
2	TC_LMS_002	Create and Update User	PASS	Fixed typo, user created and updated successfully.

Test Case 3: Create and Update Course

Test Case ID: TC_LMS_003
Test Case Title: Create and Update Course in the LMS Application

Test Scenario:

- Create a new course.
- Update the course details.
- Verify that the course is correctly created and updated.

Preconditions:

- The LMS application should be running.
- The necessary services and repositories are initialized.

Test Data:

- **Course ID**: "C001"
- **Initial Course Name**: "Introduction to Java"
- **Updated Course Name**: "Advanced Java"
- **Start Date**: "2024-08-01"
- **End Date**: "2024-12-01"

Test Steps:

1. **Step 1**: Create a new course using the initial course data.
2. **Step 2**: Verify that the course is created with the correct details.
3. **Step 3**: Update the course name from "Introduction to Java" to "Advanced Java".
4. **Step 4**: Verify that the course name is updated correctly.

Iteration 1: Fail Case

Iteration Summary:
An intentional mistake in the course creation process where the course name is incorrectly set.

Test Input:

- **Course ID**: "C001"
- **Course Name**: "Intro to Java" (Intentional typo)

- **Start Date**: "2024-08-01"
- **End Date**: "2024-12-01"

Expected Output:

- Course creation should fail or proceed with incorrect data.
- Course update should either fail or proceed incorrectly.

Actual Output:

- Course creation proceeds with the incorrect name "Intro to Java".
- Course update fails due to the incorrect initial course name.

Test Result: FAIL

Remarks:

- The course name was not validated during creation.
- The system allowed an invalid course name.

Iteration 2: Pass Case

Iteration Summary:
The error from the first iteration is fixed, and the course is created and updated correctly.

Test Input:

- **Course ID**: "C001"
- **Course Name**: "Introduction to Java"
- **Start Date**: "2024-08-01"
- **End Date**: "2024-12-01"

Expected Output:

- Course should be created with the name "Introduction to Java".
- Course name should be updated to "Advanced Java".

Actual Output:

- Course created successfully with the name "Introduction to Java".

- Course updated successfully to "Advanced Java".

Test Result: PASS

Remarks:

- The issue from the first iteration was resolved.
- Course creation and update flow works as expected.

Final Test Report Summary

Iteration	Test Case ID	Test Case Title	Result	Remarks
1	TC_LMS_003	Create and Update Course	FAIL	Typo in course name, update failed.
2	TC_LMS_003	Create and Update Course	PASS	Fixed typo, course created and updated successfully.

Test Case 4: Create and Update Enrollment

Test Case ID: TC_LMS_004
Test Case Title: Create and Update Enrollment in the LMS Application

Test Scenario:

- Create a new enrollment.
- Update the enrollment details.
- Verify that the enrollment is correctly created and updated.

Preconditions:

- The LMS application should be running.
- The necessary services and repositories are initialized.

Test Data:

- **Enrollment ID**: "E001"

- **Initial Course ID**: "C001"
- **Initial User ID**: "U001"
- **Updated Course ID**: "C002"

Test Steps:

1. **Step 1**: Create a new enrollment using the initial enrollment data.
2. **Step 2**: Verify that the enrollment is created with the correct details.
3. **Step 3**: Update the course ID from "C001" to "C002".
4. **Step 4**: Verify that the enrollment course ID is updated correctly.

Iteration 1: Fail Case

Iteration Summary:
An intentional mistake in the enrollment creation process where the course ID is incorrectly set.

Test Input:

- **Enrollment ID**: "E001"
- **Course ID**: "C001A" (Intentional typo)
- **User ID**: "U001"

Expected Output:

- Enrollment creation should fail or proceed with incorrect data.
- Enrollment update should either fail or proceed incorrectly.

Actual Output:

- Enrollment creation proceeds with the incorrect course ID "C001A".
- Enrollment update fails due to the incorrect initial course ID.

Test Result: FAIL

Remarks:

- The course ID was not validated during creation.
- The system allowed an invalid course ID.

Iteration 2: Pass Case

Iteration Summary:
The error from the first iteration is fixed, and the enrollment is created and updated correctly.

Test Input:

- **Enrollment ID**: "E001"
- **Course ID**: "C001"
- **User ID**: "U001"

Expected Output:

- Enrollment should be created with the correct course ID.
- Course ID should be updated from "C001" to "C002".

Actual Output:

- Enrollment created successfully with the correct course ID.
- Course ID updated successfully from "C001" to "C002".

Test Result: PASS

Remarks:

- The issue from the first iteration was resolved.
- Enrollment creation and update flow works as expected.

Final Test Report Summary

Iteration	Test Case ID	Test Case Title	Result	Remarks
1	TC_LMS_004	Create and Update Enrollment	FAIL	Typo in course ID, update failed.
2	TC_LMS_004	Create and Update Enrollment	PASS	Fixed typo, enrollment created and updated successfully.

Test Case 5: Create and Update Assessment

Test Case ID: TC_LMS_005
Test Case Title: Create and Update Assessment in the LMS Application

Test Scenario:

- Create a new assessment.
- Update the assessment details.
- Verify that the assessment is correctly created and updated.

Preconditions:

- The LMS application should be running.
- The necessary services and repositories are initialized.

Test Data:

- **Assessment ID**: "A001"
- **Initial Title**: "Midterm Exam"
- **Updated Title**: "Final Exam"
- **Course ID**: "C001"

Test Steps:

1. **Step 1**: Create a new assessment using the initial assessment data.
2. **Step 2**: Verify that the assessment is created with the correct details.
3. **Step 3**: Update the assessment title from "Midterm Exam" to "Final Exam".
4. **Step 4**: Verify that the assessment title is updated correctly.

Iteration 1: Fail Case

Iteration Summary:
An intentional mistake in the assessment creation process where the assessment title is incorrectly set.

Test Input:

- **Assessment ID**: "A001"
- **Title**: "Miderm Exam" (Intentional typo)
- **Course ID**: "C001"

Expected Output:

- Assessment creation should fail or proceed with incorrect data.
- Assessment update should either fail or proceed incorrectly.

Actual Output:

- Assessment creation proceeds with the incorrect title "Miderm Exam".
- Assessment update fails due to the incorrect initial title.

Test Result: FAIL

Remarks:

- The assessment title was not validated during creation.
- The system allowed an invalid assessment title.

Iteration 2: Pass Case

Iteration Summary:
The error from the first iteration is fixed, and the assessment is created and updated correctly.

Test Input:

- **Assessment ID**: "A001"
- **Title**: "Midterm Exam"
- **Course ID**: "C001"

Expected Output:

- Assessment should be created with the correct title.
- Assessment title should be updated from "Midterm Exam" to "Final Exam".

Actual Output:

- Assessment created successfully with the correct title.
- Assessment title updated successfully from "Midterm Exam" to "Final Exam".

Test Result: PASS

Remarks:

- The issue from the first iteration was resolved.
- Assessment creation and update flow works as expected.

Final Test Report Summary

Iteration	Test Case ID	Test Case Title	Result	Remarks
1	TC_LMS_005	Create and Update Assessment	FAIL	Typo in assessment title, update failed.
2	TC_LMS_005	Create and Update Assessment	PASS	Fixed typo, assessment created and updated successfully.

Test Case 6: Create and Update Result

Test Case ID: TC_LMS_006
Test Case Title: Create and Update Result in the LMS Application

Test Scenario:

- Create a new result.
- Update the result details.
- Verify that the result is correctly created and updated.

Preconditions:

- The LMS application should be running.
- The necessary services and repositories are initialized.

Test Data:

- **Result ID**: "R001"
- **Initial Grade**: "B"
- **Updated Grade**: "A"
- **Assessment ID**: "A001"
- **User ID**: "U001"

Test Steps:

1. **Step 1**: Create a new result using the initial result data.
2. **Step 2**: Verify that the result is created with the correct details.
3. **Step 3**: Update the grade from "B" to "A".
4. **Step 4**: Verify that the grade is updated correctly.

Iteration 1: Fail Case

Iteration Summary:
An intentional mistake in the result creation process where the grade is incorrectly set.

Test Input:

- **Result ID**: "R001"
- **Grade**: "C" (Intentional mistake)
- **Assessment ID**: "A001"
- **User ID**: "U001"

Expected Output:

- Result creation should fail or proceed with incorrect data.
- Result update should either fail or proceed incorrectly.

Actual Output:

- Result creation proceeds with the incorrect grade "C".
- Result update fails due to the incorrect initial grade.

Test Result: FAIL

Remarks:

- The grade was not validated during creation.
- The system allowed an invalid grade.

Iteration 2: Pass Case

Iteration Summary:
The error from the first iteration is fixed, and the result is created and updated correctly.

Test Input:

- **Result ID**: "R001"
- **Grade**: "B"
- **Assessment ID**: "A001"
- **User ID**: "U001"

Expected Output:

- Result should be created with the correct grade.
- Grade should be updated from "B" to "A".

Actual Output:

- Result created successfully with the correct grade.
- Grade updated successfully from "B" to "A".

Test Result: PASS

Remarks:

- The issue from the first iteration was resolved.
- Result creation and update flow works as expected.

Final Test Report Summary

Iteration	Test Case ID	Test Case Title	Result	Remarks
1	TC_LMS_006	Create and Update Result	FAIL	Mistake in grade, update failed.
2	TC_LMS_006	Create and Update Result	PASS	Fixed mistake, result created and updated successfully.