# Bug Report - Course Reservation Test Failures

## Bug ID: BUG-CR-001

Feature: Course Reservation

Severity: High

Status: Open

Description:

The system allows users to enroll in courses with invalid or out-of-range course IDs. Specifically, AddStudentToCourse() does not check if the course ID is within the defined range of 1 to MAX\_COURSES.

Steps to Reproduce:

1. Log in as AdminUser2  
2. Call AddStudentToCourse(99, user\_id) where 99 is beyond MAX\_COURSES  
3. Observe that the function returns 'Enrolled' instead of rejecting the request

Expected Result:

AddStudentToCourse should validate course ID before proceeding. It should reject invalid course IDs.

Actual Result:

User is enrolled in a non-existent course (e.g., ID 99), leading to undefined behavior or memory corruption.

## Bug ID: BUG-CR-002

Feature: Course Deletion & Cleanup

Severity: Medium

Status: Open

Description:

When a user is deleted using DBM\_Delete\_User(), the test expects that their Enrollments[] array is cleared. However, after deletion and data shifting, the test fails because the deleted user's index is reused.

Steps to Reproduce:

1. Log in as AdminUser2 and enroll in any course  
2. Store the Session\_User\_id before deletion  
3. Call DBM\_Delete\_User(Session\_User\_id)  
4. Check Enrollments[old\_id][i] — some values remain TRUE

Expected Result:

After user deletion, the system should clean up Enrollments for that user ID (before shifting).

Actual Result:

Test fails because Enrollments appear to remain TRUE at the deleted index.