# Test Completion Report

Project: Edges Course Center Software

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## 1. Execution Summary

a. Total Test Cases Executed: 30

b. Total Test Cases Failed:

## 2. Test Coverage Summary

i. MC/DC - Branch - Statement Coverage:

✔ Full branch and statement coverage achieved across core modules:  
• Account creation  
• Login  
• Course enrollment  
• Admin operations  
All conditional paths and branches were exercised via valid and invalid inputs.

ii. State Transition Coverage:

✔ Covered login → home → password change → enroll → logout transitions  
✔ Covered admin command transitions including add/delete/print  
✔ Included failure transitions such as wrong password, invalid token, invalid deletion

iii. Boundary Value Analysis Coverage:

✔ User creation with min/max length usernames (8 and 32 chars)  
✔ Course ID tested below 1 and above MAX\_COURSES  
✔ User ID tested with max (valid) and invalid values  
✔ Password validation tested with valid, mismatch, and space-containing inputs

All key boundary conditions were explicitly tested through crafted test cases.