ECS – Week 6 Test Cases

## Test Case TC-001

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| Test Case Creator | Timothy Jones |
| Tester Name | TBD |
| Test Date | 2025-08-16 |
| Test Identifier | TC-001 |
| Requirements Addressed | R1: User login with valid credentials |
| Prerequisite Conditions | System built and running in console mode |
| Test Input | Username: demo, Password: demo |
| Expected Test Results | System grants access and displays 'Login successful.' |
| Criteria for Evaluating Results | Login only succeeds if username/password match demo/demo |
| Instructions for Conducting Procedure | Launch ECS console app. Enter username 'demo' and password 'demo'. Press Enter. Observe system response. |
| Features to Be Tested | Authentication Service |

## Test Case TC-002

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| Test Case Creator | Timothy Jones |
| Tester Name | TBD |
| Test Date | 2025-08-16 |
| Test Identifier | TC-002 |
| Requirements Addressed | R2: Scan and checkout tool |
| Prerequisite Conditions | User logged in successfully |
| Test Input | Tool ID: T12345 |
| Expected Test Results | Tool is marked as checked out and associated with employee. |
| Criteria for Evaluating Results | Checkout recorded in transaction log, tool unavailable for others |
| Instructions for Conducting Procedure | Log in as demo/demo. Enter tool ID T12345 at checkout prompt. Press Enter. Verify confirmation message. |
| Features to Be Tested | Checkout Service, Transaction Logging |

## Test Case TC-003

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| Test Case Creator | Timothy Jones |
| Tester Name | TBD |
| Test Date | 2025-08-16 |
| Test Identifier | TC-003 |
| Requirements Addressed | R3: Return (check-in) tool |
| Prerequisite Conditions | Tool T12345 already checked out |
| Test Input | Tool ID: T12345 |
| Expected Test Results | Tool is marked as available again in inventory. |
| Criteria for Evaluating Results | Transaction recorded, tool status updated to available |
| Instructions for Conducting Procedure | Log in as demo/demo. Enter tool ID T12345 at check-in prompt. Press Enter. Verify confirmation message. |
| Features to Be Tested | Check-in Service, Inventory Update |

## Test Case TC-004

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| Test Case Creator | Timothy Jones |
| Tester Name | TBD |
| Test Date | 2025-08-16 |
| Test Identifier | TC-004 |
| Requirements Addressed | R4: Error handling for invalid login |
| Prerequisite Conditions | System running |
| Test Input | Username: invalid, Password: wrong |
| Expected Test Results | System denies access and displays 'Invalid credentials.' |
| Criteria for Evaluating Results | Access denied, no session started |
| Instructions for Conducting Procedure | Launch ECS console app. Enter username 'invalid' and password 'wrong'. Press Enter. Verify error message. |
| Features to Be Tested | Authentication Error Handling |

## Test Case TC-005

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| Test Case Creator | Timothy Jones |
| Tester Name | TBD |
| Test Date | 2025-08-16 |
| Test Identifier | TC-005 |
| Requirements Addressed | R5: Error handling for invalid tool ID |
| Prerequisite Conditions | User logged in |
| Test Input | Tool ID: XYZ999 |
| Expected Test Results | System displays error 'Tool not found.' |
| Criteria for Evaluating Results | Transaction not created, no changes in inventory |
| Instructions for Conducting Procedure | Log in as demo/demo. Enter invalid tool ID XYZ999. Press Enter. Verify error message. |
| Features to Be Tested | Checkout/Check-in Error Handling |