

Test ID	Method / Feature	Input	Expected Output	Actual Output	Pass/Fail
TC1	Add admin	Admin(1, "admin1", "pass123", admin1@test.com , DateTime.Now)	User added to users list	Admin user 'admin1' was successfully created and added to the users list and appeared when listing all users.	Pass
TC2	Add student	Student(2, "student1", "stud123", student1@test.com , "Active")	User added to users list	Student user 'student1' was successfully created and added to the users list and displayed correctly.	Pass
TC3	Check Password	CheckPassword("pass123") for admin1	TRUE	Password check returned True, confirming the correct password allowing successful authentication.	Pass
TC4	Check Password	CheckPassword("wrongpass") for admin1	FALSE	Password check returned False, preventing login with an incorrect password.	Pass
TC5	Update Admin LoginDate	UpdateLoginDate()	Login Date updated to current time	Admin login date changed from the previous value to the current system date and time.	Pass
TC6	Update Student Status	SetStatus("Inactive") for student1	Status of student changes to inactive	Student status was successfully updated from Active to Inactive and confirmed.	Pass
TC7	Remove User	RemoveUser(student1)	Student1 removed from list of users	Student1 was removed from the users list and no longer	Pass

				appeared when listing all users.	
TC8	List Users	GetAllUsers()	Users list containing the remaining users	The system displayed only the remaining users, confirming the list was updated correctly.	Pass
TC9	Add Quiz Result	Valid Result	Results stored successfully	Quiz results were added to the results list and were retrievable for the associated student.	Pass
TC10	View Results	Student with results	Results displayed	Students results were displayed correctly, including score, percentage, feedback and attempt date.	Pass
TC11	View Results	Student without results	"No results found"	The message "No results found" was displayed confirming correct handling of empty results.	Pass
TC12	Calculate Percentage	8/10	80.00%	Percentage was calculated correctly as 80.00% and displayed accurately.	Pass
TC13	Get Feedback message	80%	Excellent performance	Feedback message "Excellent performance!" was returned based on the calculated percentage.	Pass
TC14	Get Feedback message	50%	Good effort, you passed.	Feedback message "Good effort, you passed." was returned based on the	Pass

				calculated percentage.	
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=== USER & RESULT TEST HARNESS ===

Added 1 Admin and 2 Students.

All users in the system:
admin1 (Admin)
student1 (Student)
student2 (Student)

Testing password checks:
Login attempt: admin1 with password 'pass123' -> SUCCESS
Login attempt: admin1 with password 'wrongpass' -> FAIL
Login attempt: student1 with password 'stud123' -> SUCCESS
Login attempt: student2 with password 'stud234' -> SUCCESS
Login attempt: student2 with password 'wrong' -> FAIL
Login attempt: nonexistent - User not found.

Testing Admin functionality:
Original login date: 03/01/2026 20:26:43
Updated login date: 03/01/2026 20:26:43

Testing Student functionality:
Original status for student2: Inactive
Updated status for student2: Active

Testing Result functionality:

Added quiz results for student1.

Viewing results for student1:
Results for student1
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Score: 8/10
Percentage: 80.00%
Feedback: Excellent performance!
Attempt Date: 03/01/2026 20:26:43
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Score: 5/10
Percentage: 50.00%
Feedback: Good effort, you passed.
Attempt Date: 03/01/2026 20:26:43

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Press any key to continue...
Viewing results for student2 (no results expected):
Results for student2
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No results found.

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Remove User
Enter User ID: 2
User removed successfully.
Press any key to continue...

Remaining users:
admin1 (Admin)
student2 (Student)

=== TEST HARNESS COMPLETE ===
Press any key to exit...

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