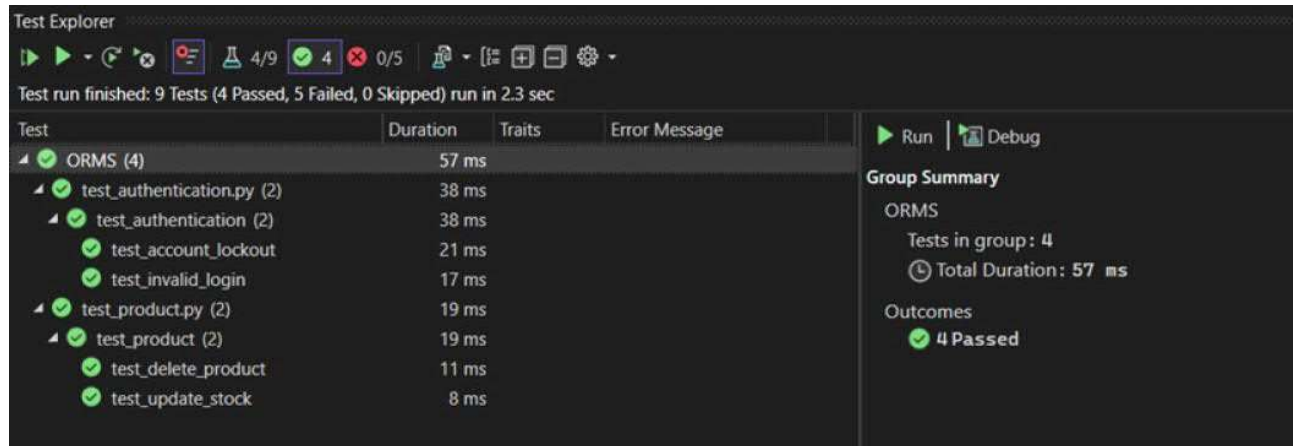**Appendix 15 Evidence of testing**

Note: The system was originally named Online Retailer Management System (ORMS), it was later changed to IMS in the final development phase to align with its functionality.

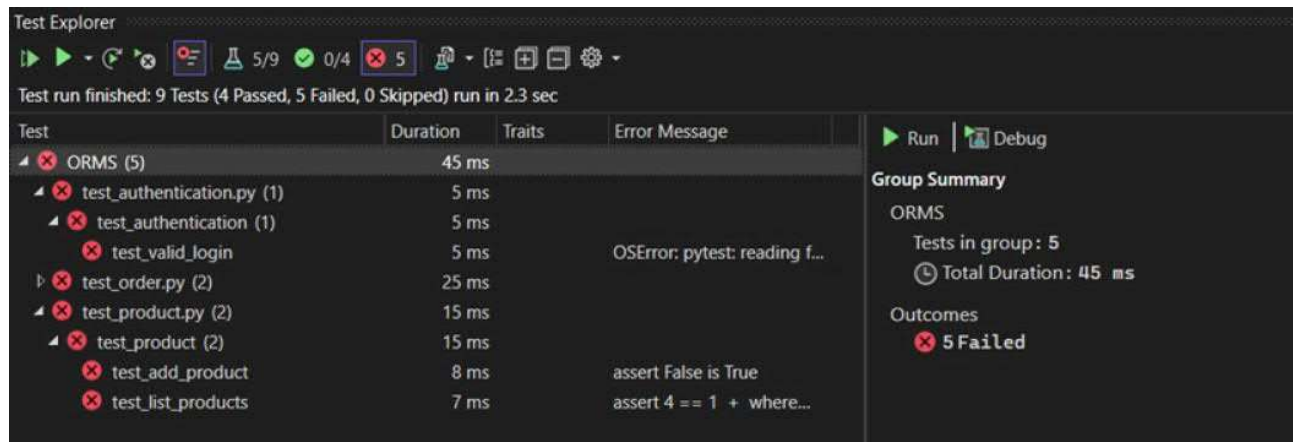<u>**Test Result 2024-12-31 – 9 Tests (4 Passed, 5 Failed)**</u>

Test Result 2025-01-07 – 10 Tests (9 Passed, 1 Failed)

Test run finished: 10 Tests (9 Passed, 1 Failed, 0 Skipped) run in 9.6 sec

Test	Duration	Traits	Error Message
IMS (9)	4.3 sec		
test_product.py (4)	32 ms		
test_product (4)	32 ms		
test_update_stock	9 ms		
test_list_products	7 ms		
test_delete_product	8 ms		
test_add_product	8 ms		
test_order.py (2)	24 ms		
test_order (2)	24 ms		
test_place_order	10 ms		
test_list_customer_orders	14 ms		
test_authentication.py (3)	4.2 sec		
TestAuthentication (3)	4.2 sec		
test_valid_login	1.2 sec		
test_invalid_login	16 ms		
test_account_lockout	3 sec		

Run | **Debug**

Group Summary

IMS
   Tests in group: **9**
   Total Duration: **4.3 sec**

Outcomes
   9 Passed

Test run finished: 10 Tests (9 Passed, 1 Failed, 0 Skipped) run in 9.6 sec   ⚠ 0 Warnings   ⊗ 0 Errors

Test	Duration	Traits	Error Message
IMS (1)	2.1 sec		
test_linter.py (1)	2.1 sec		
test_linter (1)	2.1 sec		
test_flake8	2.1 sec		Failed: Flake8 li...

Run | **Debug**

Test Detail Summary

⊗ test_flake8
   Source: test_linter.py line 4
   Duration: 2.1 sec

   Message:
   Failed: Flake8 lint errors:
   .\IMS.py:1:1: W391 blank line at end of file
   .\api\company_validation_api.py:6:68: W291 trailing whitespace
   .\api\company_validation_api.py:12:1: E302 expected 2 blank lines, found 1
   .\api\company_validation_api.py:20:1: E305 expected 2 blank lines after class or function definition, foun
   .\api\company_validation_api.py:22:1: W391 blank line at end of file
   .\controllers\authentication_controller.py:5:14: W291 trailing whitespace
   .\controllers\authentication_controller.py:6:1: F401 'models.user.Admin' imported but unused
   .\controllers\authentication_controller.py:8:1: E302 expected 2 blank lines, found 1
   .\controllers\authentication_controller.py:15:80: E501 line too long (96 > 79 characters)
   .\controllers\authentication_controller.py:16:80: E501 line too long (85 > 79 characters)
   .\controllers\authentication_controller.py:31:80: E501 line too long (84 > 79 characters)
   .\controllers\authentication_controller.py:33:80: E501 line too long (116 > 79 characters)
   .\controllers\authentication_controller.py:59:80: E501 line too long (111 > 79 characters)
   .\controllers\authentication_controller.py:64:80: E501 line too long (98 > 79 characters)
   .\controllers\authentication_controller.py:65:80: E501 line too long (139 > 79 characters)
   .\controllers\authentication_controller.py:78:80: E501 line too long (81 > 79 characters)
   .\controllers\authentication_controller.py:88:80: E501 line too long (81 > 79 characters)
   .\controllers\authentication_controller.py:91:80: E501 line too long (116 > 79 characters)

Test Result 2025-01-11 – 10 Tests (9 Passed, 1 Failed)

Test Result 2025-01-12 – 10 Tests (All Passed)

Test	Duration	Traits	Error Me...
◢ ✅ IMS (10)	3.5 sec		
◢ ✅ test_product.py (4)	29 ms		
◢ ✅ test_product (4)	29 ms		
✅ test_update_stock	8 ms		
✅ test_list_products	6 ms		
✅ test_delete_product	8 ms		
✅ test_add_product	7 ms		
◢ ✅ test_order.py (2)	22 ms		
◢ ✅ test_order (2)	22 ms		
✅ test_place_order	10 ms		
✅ test_list_customer_orders	12 ms		
◢ ✅ test_linter.py (1)	1.7 sec		
◢ ✅ test_linter (1)	1.7 sec		
✅ test_flake8	1.7 sec		
◢ ✅ test_authentication.py (3)	1.8 sec		
◢ ✅ TestAuthentication (3)	1.8 sec		
✅ test_valid_login	579 ms		
✅ test_invalid_login	5 ms		
✅ test_account_lockout	1.2 sec		

▶ Run 🖥 Debug

Group Summary

IMS

Tests in group : **10**

🕐 Total Duration : **3.5 sec**

Outcomes

✅ **10 Passed**