TEST EXECUTION AND REPORTING

Document Results

BACKEND (C# APIs)

ID	Title	Result	Comments
U1	Login with Valid Credentials	Pass	200 OK with a valid JWT token and successful authentication message.
U2	Test with incorrect username and password	Pass	401 Unauthorized with error message "Invalid Credentials".
U3	Login with Valid Username and Empty Password	Fail	401 Unauthorized instead of 400 Bad Request. Response indicates the "password" field is missing.
U4	Login with Valid Password and Empty Username	Fail	401 Unauthorized instead of 400 Bad Request. Response indicates the "username" field is missing.
U5	Login with Empty Fields	Fail	401 Unauthorized instead of 400 Bad Request. Both fields should be required and validated.
U6	Login with Missing Fields	Pass	400 Bad Request indicating that the "password" field is missing.
U7	Login with Invalid Payload	Pass	400 Bad Request indicating an invalid request format (incorrect JSON structure).
ID	Title	Result	Comments
	Create a		201 Created: Product created

P01	Create a product with valid data	Pass	201 Created: Product created successfully with valid data.
P02	Create a product with duplicate ID	Fail	201 Created: Duplicate ID allowed, validation missing for duplicates.
P03	Create a product with id = 0	Fail	201 Created: ID 0 allowed, should be validated as invalid.
P04	Create a product with negative id	Fail	201 Created: Negative ID allowed, validation missing for negative values.
P05	Create a product without a name field	Fail	201 Created: Empty name allowed, validation for name field missing.
P06	Create a product with negative price	Fail	201 Created: Negative price allowed, validation for price missing.
P07	Create a product with price as string	Pass	400 Bad Request: Invalid price format, correctly rejected.
P08	Create a product with empty fields	Pass	400 Bad Request: Missing required fields, rejected correctly.
P09	Create a product with duplicate id and name	Fail	201 Created: Duplicate ID and name allowed, missing validation for duplicate entries.

P010	Get list of products	Pass	200 OK: Products retrieved successfully, but contains invalid IDs and duplicate entries.
P011	Get an existing product by id	Pass	200 OK: Product retrieved successfully with correct details.
P012	Get a product that does not exist	Pass	404 Not Found: Product not found, as expected.
P013	Get a product with negative id	Fail	200 OK: System allowed retrieval of a product with a negative ID, validation missing.
P014	Get a product with non-numeric id	Pass	400 Bad Request: Invalid ID format rejected, as expected.
P015	Get a product with id in 0	Fail	200 OK: Product with ID 0 retrieved, validation for invalid ID missing.
P016	Update an existing product	Fail	204 No Content: Product update request succeeded, but validation seems incomplete.
P017	Update a non-existing product	Pass	404 Not Found: Update failed for non-existing product, as expected.
P018	Update a product with duplicate id	Fail	204 No Content: Update succeeded with duplicate ID, validation missing.

	duplicate id		validation missing.
P019	Update a product with negative id	Fail	204 No Content: Negative ID allowed. Validation for invalid ID missing. Should return 400 Bad Request.
P020	Update a product eliminating required fields	Fail	204 No Content: Missing required fields allowed. Validation for required fields missing. Should return 400 Bad Request.
P021	Update with mismatched URL and payload ID	Fail	204 No Content: Inconsistent IDs between URL and payload allowed. Validation for ID consistency missing. Should return 400 Bad Request.
P022	Delete an existing product	Pass	204 No Content: Product deleted successfully.
P023	Delete a non-existing product	Pass	204 No Content: Product with a negative ID deleted, validation missing.
P024	Delete a product with negative id	Fail	204 No Content: Deletion succeeded with ID 0, validation for invalid ID missing
P025	Attempt to delete a product with id = 0	Fail	204 No Content: Deletion succeeded with ID 0, validation for invalid ID missing.
P026	Delete a product with non-numeric id	Pass	400 Bad Request: Invalid ID format correctly rejected.

ID	Title	Result	Comments
P027	Delete multiple products at once	Pass	405 Method Not Allowed: Deletion of multiple products is not supported, as expected.
ID	Title	Result	Comments
O01	Create an order with valid data	Pass	201 Created: Order created successfully.
O02	Create order with quantity = 0	Fail	201 Created: Orders with quantity 0 should not be allowed.
O03	Create order with empty status	Fail	201 Created: The status field is empty; validation is missing.
O04	Create order with empty product name	Fail	201 Created: The product name should not be empty; validation is missing.
O05	Create an order with duplicate ID	Fail	201 Created: Duplicate IDs should not be allowed; must return an error.
O06	Get the list of all orders.	Pass	200 OK: The list of orders is retrieved successfully.
O07	Get list when no orders exist.	Pass	200 OK: Empty list handled correctly (assumed, response missing).
O08	Get an order by an existing ID	Pass	200 OK: Successfully retrieves an existing order.

	an existing ID		an existing order.
O09	Get an order with non-existing ID	Pass	404 Not Found: Handles non-existing ID correctly.
O010	Get an order with negative ID	Fail	200 OK: Response should not succeed for negative IDs; validation is missing.
O011	Get an order with non-numeric ID	Pass	400 Bad Request: Handles non-numeric ID correctly.
O012	Get an order with id = 0	Fail	200 OK: Response should not succeed for ID = 0.
O013	Update an existing order with valid data.	Pass	204 No Content: Order updated successfully.
O014	Update order with quantity = 0.	Fail	204 No Content: Updating with quantity = 0 should not be allowed.
O015	Update order with empty status	Fail	204 No Content: Updating with an empty status should not be allowed.
O016	Update non-existent order.	Pass	404 Not Found: Correct handling for non-existent orders.

O017	Delete an existing order	Pass	204 No Content: Order deleted successfully.
O018	Delete a non-existent order	Pass	404 Not Found: Handles deletion of a non-existent order correctly.
O019	Delete an order with negative ID	Fail	204 No Content: Orders with negative IDs should not be deletable; validation is missing.
O020	Delete an order with non-numeric ID	Pass	400 Bad Request: Rejects non-numeric IDs correctly.
O021	Delete an order with id = 0	Fail	204 No Content: Deletion should not succeed for ID = 0.

FRONTEND (ReactJS)

ID	Title	Result	Comments
U01	Login with valid credentials	The user can log in correctly and a token is generated, but they are not redirected anywhere.	The user should be redirected after logging in.
U02	Login with invalid credentials	The user cannot log in, and they receive a message saying "Login failed".	The error message should be clear about why the login failed.
P01	View the list of products	The user can view the products that are added from the backend.	The product list should be dynamically updated when new products are added.

O01	View the list of orders	The user can view the orders that are added from the backend.	The order list should display details like order status and dates.
R01	Check if the page is responsive	The application does not have a design, so it is not possible to establish a standard to verify if this is fulfilled.	A responsive design needs to be implemented for better user experience across different devices.