DEFECT REPORTING

DEFECT ID	ASSOCIATED TEST CASE ID	DESCRIPTION	STEPS TO REPLICATE	ACTUAL RESULT	EXPECTED RESULT	SEVERITY
DR1	AU03	401 Unauthorized instead of 400 Bad Request for empty fields	Test login with username and password fields empty	01 Unauthorized with message indicating 'username' and 'password' are missing	400 Bad Request indicating that both fields are required	High
DR2	AU04	401 Unauthorized instead of 400 Bad Request for empty password	Send a login request with a valid username and an empty password	401 Unauthorized with message indicating 'password' is missing	400 Bad Request indicating that the password field is required	High
DR3	AU05	401 Unauthorized instead of 400 Bad Request for empty username	Send a login request with a valid password and an empty username	401 Unauthorized with message indicating 'username' is missing	400 Bad Request indicating that the username field is required	High
DR4	AU06	401 Unauthorized instead of 400 Bad Request for invalid JSON formatting	Test when sending poorly structured data (e.g., invalid JSON)	401 Unauthorized with message indicating invalid JSON format	400 Bad Request indicating that an invalid request format (incorrect JSON structure) was received	High
DR5	PC02	Allowed creation of a product with a negative price	Try creating a product with a negative price: {"id": 2, "name": "Product Two", "price": -40}	Response 201 Created instead of 400 Bad Request. Negative price allowed, validation for price missing	400 Bad Request indicating that the price cannot be negative	High
DR6	PC03	Allowed creation of a product without the "name" field	Try creating a product without a name: {"id": 2, "price": 10}	Response 201 Created instead of 400 Bad Request. Missing validation for required "name" field	400 Bad Request indicating that the "name" field is obligatory	High
DR7	PC04	Allowed creation of a product with a duplicate ID	Try creating a product with an existing ID: {"id": 1, "name": "Product Four", "price": 150}	Response 201 Created instead of 409 Conflict. Duplicate ID allowed, missing validation	409 Conflict response with the message "ID already exists"	High
DR8	PC12	Allowed retrieval of a product with a negative ID	Attempting to get a product with a negative ID: {"id": -10}	Attempting to get a product with a negative ID: {"id": -10}	Attempting to get a product with a negative ID: {"id": -10}	High
DR9	PC13	Allowed update of an existing product with no validation for required fields	Try updating an existing product without any issues: {"id": 1, "name": "Order one", "price": 244}	Try updating an existing product without any issues: {"id": 1, "name": "Order one", "price": 244}	Try updating an existing product without any issues: {"id": 1, "name": "Order one", "price": 244}	High
DR10	PC14	Allowed update of a product with a negative price	Try updating a product with a negative price: {"id": 22, "name": "Order five", "price": -1500}	Response returned 204 No Content instead of 400 Bad Request. Missing validation for negative price values	400 Bad Request indicating negative price values should not be accepted	High
DR11	PC15	Allowed update of a product with a negative price	Try updating a product with a negative price: {"id": 22, "name": "Order five", "price": -1500}	Response returned 204 No Content instead of 400 Bad Request. Missing validation for negative price values	400 Bad Request indicating negative price values should not be accepted	High
DR12	PC16	Allowed update of a product with a negative ID	Try updating a product with a negative ID: {"id": -200, "name": "Order six", "price": 300}	Response returned 204 No Content instead of 400 Bad Request. Missing validation for negative product IDs	400 Bad Request indicating negative product IDs should not be accepted	High
DR13	PC17	Allowed update of a product with missing fields	Try updating a product with missing fields: {"id": 3, "price": 120}	Response returned 204 No Content instead of 400 Bad Request. Missing validation for missing fields when updating a product	400 Bad Request response indicating that the 'name' field is required	High

DR14	PC18	Deletion of an existing product	Attempting to delete a product with ID 20	Response returned 204 No Content. The product was successfully deleted, but no confirmation message returned	200 OK response with a confirmation message indicating that the product has been deleted	High
DR14	PC21	Deletion attempt with a negative product ID is not validated	Attempting to delete a product with ID -2	Response returned 204 No Content instead of 400 Bad Request	Response returned 204 No Content instead of 400 Bad Request	Hgh
DR15	PC22	Deletion attempt with a product ID of zero is not validated	Attempting to delete a product with ID 0	Response returned 204 No Content instead of 400 Bad Request	Response 400 Bad Request indicating the provided ID cannot be zero	High
DR16	OC02	Deletion of an order with zero quantity is not handled correctly	Attempting to create an order with zero quantity ({ "id": 1, "productName": "Product Two", "quantity": 0, "status": "Pending" })	Response returned 201 Created instead of 400 Bad Request	Response 400 Bad Request with a message indicating that the quantity must be greater than zero	High
DR17	OC03	Missing validation for the status field	Attempting to create an order without specifying a status ({ "id": 6, "productName": "Product one", "quantity": 20, "status": "" })	Response returned 201 Created instead of 400 Bad Request	Response 400 Bad Request stating that the status field is required	High
DR18	OC05	Duplicate order ID is not detected	Attempting to create an order with an existing order ID ({ "id": 1, "productName": "Product Nine", "quantity": 27, "status": "In progress" })	Response returned 201 Created instead of 409 Conflict	Response 409 Conflict indicating that the order ID is already in use	High
DR19	OC10	Missing validation for negative order ID	Attempting to get an order with a negative ID (i: -10)	Response returned 200 OK instead of 400 Not Found	Response 400 Not Found with a message indicating that the ID is invalid	High
DR19	OC11	Missing validation for order ID set to 0	Attempting to get an order with ID 0 (i: 0)	Response returned 200 OK instead of 400 Not Found	Response 400 Not Found with a message indicating that the ID cannot be equal to 0	High
DR20	OC12	Incorrect Response for Existing Order Update	Attempting to update an existing order with a valid ID (id: 1)	Response returned 204 No Content instead of 200 OK	Response 200 OK with confirmation of updated order details	High
DR21	OC14	Incorrect Response for Negative Quantity Update	Attempting to update an order with negative quantity (quantity: -5)	Response returned 204 No Content instead of 400 Bad Request	Response 400 Bad Request indicating "Quantity cannot be negative"	High
DR22	OC15	Incorrect Response for Empty Status Field Update	Attempting to update an order with an empty status field (status: "")	Response returned 204 No Content instead of 400 Bad Request	Response 400 Bad Request with a message indicating that the 'status' field is required	High
DR23	OC16	Incorrect Response for Existing Order Deletion	Attempting to delete an existing order with valid ID (id: 1)	Response returned 204 No Content instead of 200 OK	Response 200 OK with a confirmation message indicating the order has been deleted	High
DR24	OC19	Incorrect Response for Deleting Order with Negative ID	Attempting to delete an order with negative ID (id: -2)	Response returned 204 No Content instead of 400 Bad Request	Response 400 Bad Request with a message stating the ID provided is invalid	High
DR25	OC20	Incorrect Response for Deleting Order with ID = 0	Attempting to delete an order with ID set to zero (id: 0)	Response returned 204 No Content instead of 400 Bad Request	Response 400 Bad Request indicating the provided ID cannot be zero	High