

Defect Reporting						
Defect ID	Associated Test Case ID	Description	Steps to Replicate	Actual Result	Expected Result	Severity
D1	U3	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
D2	U4	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
D3	U5	401 Unauthorized instead of 400 Bad Request for empty fields.	Send a login request with both username and password fields empty.	401 Unauthorized.	400 Bad Request indicating that both fields are required.	High
D4	P02	Duplicate ID allowed, validation missing for duplicates.	1. Send a POST request to create a product with ID = 1. 2. Send another POST request with the same ID = 1.	Duplicate product with ID = 1 created.	400 Bad Request: Duplicate IDs should be rejected.	High
D5	P03	ID 0 allowed, should be validated as invalid.	Send a POST request to create a product with ID = 0.	Product created successfully with ID = 0.	400 Bad Request: ID = 0 should not be allowed.	High
D6	P04	Negative ID allowed, validation missing for negative values.	Send a POST request to create a product with ID = -1.	Product created successfully with ID = -1.	400 Bad Request: Negative IDs should not be allowed.	High
D7	P05	Empty name allowed, validation for name field missing.	Send a POST request without providing a name field.	Product created successfully without a name.	400 Bad Request: Name field cannot be empty.	High
D8	P06	Negative price allowed, validation for price missing.	Send a POST request to create a product with a negative price value (e.g., -10).	Product created successfully with a negative price.	400 Bad Request: Negative prices should not be allowed.	High
D9	P09	Duplicate ID and name allowed, missing validation for duplicate entries.	1. Send a POST request to create a product with ID = 2 and name = "Sample Product". 2. Send another POST request with the same ID and name.	Duplicate product with the same ID and name created successfully.	400 Bad Request: Duplicate entries should be rejected.	High

D10	P013	Retrieval of product with a negative ID allowed.	Send a GET request to retrieve a product with a negative ID (e.g., -2).	Product retrieved successfully with a negative ID.	400 Bad Request: System should reject retrieval of products with negative IDs.	Medium
D11	P015	Retrieval of product with ID = 0 allowed.	Send a GET request to retrieve a product with ID = 0.	Product retrieved successfully with ID = 0.	400 Bad Request: System should reject retrieval of products with ID = 0.	Medium
D12	P016	Product update request succeeded, but validation seems incomplete.	Send a PUT request to update an existing product with invalid fields.	Product updated with incomplete validation.	400 Bad Request: System should validate fields before updating and reject invalid requests.	High
D13	P018	Update succeeded with duplicate ID, validation missing.	Send a PUT request to update a product with a duplicate ID.	Product updated successfully with a duplicate ID.	400 Bad Request: System should reject duplicate IDs.	High
D14	P019	Negative ID allowed during update. Validation for invalid ID missing.	Send a PUT request to update a product with a negative ID (e.g., -3).	Product updated successfully with a negative ID.	400 Bad Request: System should reject negative IDs during update.	High
D15	P020	Missing required fields allowed during update. Validation for required fields missing.	Send a PUT request to update a product while omitting required fields like name or price.	Product updated successfully with missing required fields.	400 Bad Request: System should reject updates with missing required fields.	High
D16	P021	Inconsistent IDs between URL and payload allowed. Validation for ID consistency missing.	Send a PUT request with different IDs in the URL and payload.	Update request succeeded despite mismatched IDs.	400 Bad Request: System should validate ID consistency and reject mismatched requests.	High
D17	P023	Product with a negative ID deleted, validation missing.	Send a DELETE request for a product with a negative ID (e.g., -5).	Product deleted successfully with a negative ID.	400 Bad Request: System should reject deletion of products with negative IDs.	Medium
D18	P024	Deletion succeeded with ID = 0, validation for invalid ID missing.	Send a DELETE request for a product with ID = 0.	Product deleted successfully with ID = 0.	400 Bad Request: System should reject deletion of products with ID = 0.	Medium
D19	O02	Create order with quantity = 0	1. Create a new order with quantity = 0. 2. Submit the order.	201 Created: Orders with quantity 0 should not be allowed.	400 Bad Request: Orders with quantity 0 should be rejected.	High

D20	O03	Create order with empty status	1. Create a new order with an empty status. 2. Submit the order.	201 Created: The status field is empty; validation is missing.	400 Bad Request: Order status should not be empty.	High
D21	O04	Create order with empty product name	1. Create a new order with an empty product name. 2. Submit the order.	201 Created: The product name should not be empty; validation is missing.	400 Bad Request: Product name cannot be empty.	High
D22	O05	Create an order with duplicate ID	1. Create a new order with a duplicate ID. 2. Submit the order.	201 Created: Duplicate IDs should not be allowed.	400 Bad Request: Duplicate IDs should be rejected.	High
D23	O010	Get an order with negative ID	1. Request an order with a negative ID.	200 OK: Response should not succeed for negative IDs; validation is missing.	400 Bad Request: Negative IDs should not be allowed.	High
D24	O012	Get an order with id = 0	1. Request an order with id = 0.	200 OK: Response should not succeed for ID = 0.	400 Bad Request: ID = 0 should not be allowed.	High
D25	O014	Update order with quantity = 0	1. Update an order with quantity = 0. 2. Submit the update.	204 No Content: Updating with quantity = 0 should not be allowed.	400 Bad Request: Quantity = 0 should not be allowed.	High
D26	O015	Update order with empty status	1. Update an order with an empty status. 2. Submit the update.	204 No Content: Updating with an empty status should not be allowed.	400 Bad Request: Status cannot be empty.	High
D27	O019	Delete an order with negative ID	1. Delete an order with a negative ID.	204 No Content: Orders with negative IDs should not be deletable; validation is missing.	400 Bad Request: Negative IDs should not be allowed.	High
D28	O021	Delete an order with id = 0	1. Try to delete an order with id = 0.	204 No Content: Deletion should not succeed for ID = 0.	400 Bad Request: ID = 0 should not be allowed for deletion.	High