

Test Cases for Inventory Management System

Follwing are Integration Test Cases

Test Case ID	Test Scenario	Request Type	Endpoints	Input Data	Expected Output	Status
TC_01	Add a new inventory Item	POST	/api/inventory	{ "name": "Mouse", "quantity": 20, "supplierDetails": "XYZ Supplier" }	200 OK Item added successfully	Pass
TC_02	Update an existing item's quantity	PUT	/api/inventory/{itemID}	{ "quantity": 25 }	200 OK, Updated item with new quantity	Pass
TC_03	Delete an inventory item	DELETE	/api/inventory/{itemID}	NA	200 OK , Item deleted successfully	Pass
TC_04	Retrieve all inventory items	GET	/api/inventory	NA	200 OK, Item of Inventory item	Pass
TC_05	Retrieve inventory by suppliers	GET	/api/inventory?suppliers=ABC Suppliers	NA	200 OK, Item filtered by supplier	Pass
TC_06	Retrieve low stock inventory	GET	/api/inventory/lowStock=true	NA	200 OK, Items with quantity <=10	Pass

TC_07	Update quantity with negative value(Invalid)	PUT	/api/inventory{itemID}	{ "quantity": -5 }	400 Bad Request, Error :”Quantity cannot be negative”	Pass
TC_08	Update a non-existent item	PUT	/api/inventory/999	{ "quantity": 10 }	404 Not Found, Error “Item not found with ID:999”	Pass
TC_09	Delete a non-existing item	DELETE	/api/inventory/999	NA	404 Not Found,Error:Itemnot found with ID:999	Pass
TC_10	Add an item with missing fields(Invalid)	POST	/api/inventory	{ "name": "", "quantity": null }	400 Bad Request, Validation error	Pass