TC ID	API Endpoint	Method
TC001	/auth/login	POST
TC002	/auth/login	POST
TC003	/products	GET
TC004	/products/1	GET
TC005	/products/9999	GET
TC006	/products/search?q=phone	GET
TC007	/carts/add	POST
TC008	/carts/add	POST
TC009	/carts/add	POST
TC010	/products	GET

Test Scenario	Input / Payload	Expected Result
Login with valid credentials	{ "username": "kminchelle", "password": "0lelplR" }	200 OK, response contains token
Login with invalid credentials	{ "username": "wrong", "password": "1234" }	401 Unauthorized, error message "Invalid credentials"
Fetch all products	None	200 OK, JSON list of products
Fetch product by valid ID	Product ID = 1	200 OK, product details (id=1)
Fetch product by invalid ID	Product ID = 9999	404 Not Found, error message
Search product with keyword	q = phone	200 OK, response list contains items with "phone"
Add product to cart with valid user	{ "userId": 1, "products": [{ "id": 1, "quantity": 2 }] }	200 OK, cart created with product list
Add to cart with invalid product ID	{ "userId": 1, "products": [{ "id": 9999, "quantity": 2 }] }	400 Bad Request or error message
Add to cart with missing userId	{ "products": [{ "id": 1, "quantity": 2 }] }	400 Bad Request, validation error
Verify response time	None	Response time < 2 sec

**Response Time
& Status**

< 2 sec – Pass

< 2 sec – Pass

< 2 sec – Pass

< 2 sec – Pass

< 2 sec – Pass

< 2 sec – Pass

< 2 sec – Pass

< 2 sec – Pass

< 2 sec – Pass

Actual response
time + Pass/Fail