

Test Cases

Test Case 1: Successful Login

Test Case ID: TC001

Title: Successful Login with Valid Credentials

Preconditions: User is registered in the system.

Steps:

Send a POST request to <https://mockapi.rapidextras.com/login> with a valid username and password.

Expected Result:

Status Code: 200 OK

Response contains a JWT token.

Response headers include content-type application/json.

Test Case 2: Empty Username or Password

Test Case ID: TC002

Title: Login Attempt with Empty Username or Password

Preconditions: None

Steps:

Send a POST request with an empty username and/or password.

Expected Result:

Status Code: 400 Bad Request

Error Message: "Username and password are required."

Test Case 3: Invalid Login

Test Case ID: TC003

Title: Invalid Login Attempt

Preconditions: None

Steps:

Send a POST request with an incorrect username or password.

Expected Result:

Status Code: 401 Unauthorized

Error Message: "Unauthorized"

Test Case 4: Malformed JSON Response

Test Case ID: TC004

Title: Handling Malformed JSON Response

Preconditions: None

Steps:

Send a POST request with a username that triggers a malformed JSON response.

Expected Result:

Response is not a valid JSON structure.

The application should not crash or behave unexpectedly.

Test Case 5: Server Error

Test Case ID: TC005

Title: Simulating Server Error

Preconditions: None

Steps:

Send a POST request with a username that triggers a server error.

Expected Result:

Status Code: 500 Internal Server Error

Error Message: "Internal Server Error"

Test Case 6: Slow Response

Test Case ID: TC006

Title: Handling Slow Response

Preconditions: None

Steps:

Send a POST request with a username that simulates a slow response.

Expected Result:

Status Code: 200 OK

Response time is greater than or equal to 2 seconds.

Response contains a JWT token.

Test Case 7: Special Characters in Username or Password

Test Case ID: TC007

Title: Special Characters in Credentials

Preconditions: None

Steps:

Send a POST request with special characters in the username or password.

Expected Result:

Status Code: Based on API handling (e.g., 400 or 200).

Application should handle special characters gracefully.

Test Case 8: Long Username or Password

Test Case ID: TC008

Title: Long Credentials

Preconditions: None

Steps:

Send a POST request with excessively long username or password.

Expected Result:

Status Code: Based on API handling (e.g., 400 or 200).

Application should not crash or slow down excessively.

Test Case 9: Invalid JSON Structure

Test Case ID: TC009

Title: Handling Invalid JSON Structure

Preconditions: None

Steps:

Send a POST request with invalid JSON structure.

Expected Result:

Status Code: 400 Bad Request or other appropriate error.

Application should handle the invalid JSON gracefully.

Test Case 10: SQL Injection Attempt

Test Case ID: TC010

Title: SQL Injection Vulnerability Test

Preconditions: None

Steps:

Send a POST request with SQL injection patterns in the username or password.

Expected Result:

Status Code: 400 Bad Request or other appropriate handling.

Application should not be vulnerable to SQL injection.

Test Case 11: Response Headers Validation

Test Case ID: TC011

Title: Validate Response Headers

Preconditions: None

Steps:

Send a POST request with valid credentials.

Expected Result:

Status Code: 200 OK

Response headers should include Content-Type: application/json.

Other security headers should be present (e.g., X-Content-Type-Options).