

#	Test Name / Scenario	Input	Expected Result	Actual Status	Type of Test	Positive / Negative	Notes / Theory
1	Successful login	username: "admin", password: "password123"	HTTP 200, JSON contains token (string, length > 10)	Passed	Functional / API Test	Positive	Verifies correct credentials generate a token; positive test ensures expected behavior.
2	Wrong username	username: "wronguser", password: "password123"	HTTP 200, JSON contains reason: "Bad credentials", no token	Passed	Functional / API Test	Negative	Negative test: invalid username should not generate a token.
3	Wrong password	username: "admin", password: "wrongpassword"	HTTP 200, JSON contains reason: "Bad credentials", no token	Passed	Functional / API Test	Negative	Negative test: invalid password should be rejected.
4	Empty username	username: "", password: "password123"	HTTP 200, JSON contains reason: "Bad credentials"	Passed	Functional / API Test	Negative	Tests input validation: username field cannot be empty.
5	Empty password	username: "admin", password: ""	HTTP 200, JSON contains reason: "Bad credentials"	Passed	Functional / API Test	Negative	Tests input validation: password field cannot be empty.
6	Missing username field	password: "password123"	HTTP 200, JSON contains reason: "Bad credentials"	Passed	Functional / API Test	Negative	Missing fields test: ensures API handles absent username gracefully.
7	Missing password field	username: "admin"	HTTP 200, JSON contains reason: "Bad credentials"	Passed	Functional / API Test	Negative	Missing fields test: ensures API handles absent password gracefully.
8	Empty request body	{}	HTTP 200, JSON contains reason: "Bad credentials"	Passed	Functional / API Test	Negative	Tests input validation: empty body must fail authentication.
9	Extra fields in request	username: "admin", password: "password123", extraField: "x", anotherField: 123	HTTP 200, JSON contains token, ignores extra fields	Passed	Functional / API Test	Positive	Ensures API ignores unknown fields, tests robustness and input sanitization.

10	Correct content-type header	username: "admin", password: "password123"	HTTP 200, Content-Type: application/json	Passed	Functional / API Test	Positive	Verifies API returns correct HTTP headers; part of contract/API standard.
11	Performance / response time	username: "admin", password: "password123"	HTTP 200, token returned < 2 seconds	Passed	Non-functional / Performance Test	Positive	Measures API speed; ensures acceptable response time.
12	Token format	username: "admin", password: "password123"	HTTP 200, token matches UUID format	Passed	Functional / API Test	Positive	Verifies token structure; ensures consistency and security.
13	Consistent response structure	Success: valid credentials Error: invalid credentials	Success → has token, no reason Error → has reason, no token	Passed	Functional / API Test	Both	Ensures API response format is predictable; helps frontend integration and error handling.