Project Name: Lumbini Engineering College Created By: Madan Bhandari Module: POST login user Date: 10/11/2025					
API: https://lec-backend-gva9.onrender.com					
Test_Id	Title	Expected Results	Actual Results	Remarks	Screenshot
TC_LU_01	Verify username and password fields are mandatory	Input Validation Error: The login attempt failed because the username or password field was left empty.	Input Validation Error: The login attempt failed because the username or password field was left empty.	Pass	https://drive.google. com/file/d/1CsrQJaxTbd1SiXeGffUsTH9G1g wyBv82/view?usp=drivesdk
TC_LU_02	Verify login with valid credentials	Successful login. The system was expected to return a Success code and provide the user's access token.	Successful login. The system returned a Success code and provided the user's access token.	Pass	https://drive.google. com/file/d/1oSdqCAAtOhYM_xmNr4zkMbx97 fGw5Mkq/view?usp=drivesdk
TC_LU_03	Verify login with invalid password	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Input Validation Error: The login attempt failed because the password was too short or too long.	Fail	https://drive.google. com/file/d/1SnC8qWvBDliNtCUV5Qzc5sH2ml YeuM-h/view?usp=drivesdk

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TC_LU_04	Verify login with an invalid username	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Pass	https://drive.google. com/file/d/1vfJcKkoLlm_c8rZcOqfyqll9J0vAf EKZ/view?usp=drivesdk
TC_LU_05	Verify login with an invalid username and invalid password	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Pass	https://drive.google. com/file/d/1YFoSqlvyMgls_qXtCnMrGACtivs6 Kno_/view?usp=drivesdk
TC_LU_06	Verify trimming of leading/trailing spaces in username	Successful login. The system was expected to return a Success code and provide the user's access token.	Successful login. The system returned a Success code and provided the user's access token.	Pass	https://drive.google. com/file/d/1qlMQB7qA9MetlxSuL8zLsmD3m L7vSIGI/view?usp=drivesdk
TC_LU_07	Verify login with invalid JSON format	Request Formatting Error: The login attempt failed because the data sent was in an incorrect format (not valid JSON).	Status: 400 with error: Invalid JSON format and message confirming the request body format issue.	Pass	https://drive.google. com/file/d/1nUJrrTLDf4zbWR0OiEwuQAjd9N KLP-Pi/view?usp=drivesdk

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TC_LU_08	Verify the case sensitivity of the password	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Pass	https://drive.google.com/file/d/1PsWwx_qW_e2UV1qclbIa8V0uZDEHLUOE/view?usp=drivesdk
TC_LU_09	Verify case sensitivity of username	Successful login. The system was expected to return a Success code and provide the user's access token.	Successful login. The system returned a Success code and provided the user's access token.	Pass	https://drive.google.com/file/d/1PH3iulbGN1etYbb5D-rf0_M47_i_mttp/view?usp=drivesdk
TC_LU_10	Verify login with very long username input	Validation Error: The system indicated a problem with the data sent (a 400 error).	Input Validation Error: The login attempt failed because the username was too short or too long.	Pass	https://drive.google.com/file/d/1nozTTzETS12WRSczJpSQw3XwOjvuTwRe/view?usp=drivesdk
TC_LU_11	Verify login with very long password input	Validation Error: The system indicated a problem with the data sent (a 400 error).	Input Validation Error: The login attempt failed because the password was too short or too long.	Pass	https://drive.google.com/file/d/1j2MYWOfO_qQCroqdIQ8LfxyMyC1tCyKD/view?usp=drivesdk

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Test_Id	**Title**	**Expected Results**	**Actual Results**	**Remarks**	**Screenshot**
TC_LU_12	Verify login with empty password	Validation Error: The system indicated a problem with the data sent (a 400 error).	Input Validation Error: The login attempt failed because the username or password field was left empty.	Pass	https://drive.google.com/file/d/10yOGtpEvxEkoGoxaWExZ3_HyY1LIu0j3/view?usp=drivesdk
TC_LU_13	Verify login with empty username	Validation Error: The system indicated a problem with the data sent (a 400 error).	Input Validation Error: The login attempt failed because the username or password field was left empty.	Pass	https://drive.google.com/file/d/1BmJS80ztJjxpJbAQVKLC4Yq1xzqs9Crx/view?usp=drivesdk
TC_LU_14	Verify login attempt rate limit	Security Lockout: The account was temporarily locked because of too many failed login attempts (Rate Limit Reached).	Security Lockout: The account was temporarily locked because of too many failed login attempts (Rate Limit Reached).	Pass	https://drive.google.com/file/d/1Y3ubZ6PHAZ7Qazxr69RLy2PQ4MtguN8i/view?usp=drivesdk
TC_LU_15	Verify successful login returns a valid token (token contains user role and expiration – check on jwt.io)	Successful login. The system was expected to return a Success code and provide the user's access token.	Status: 200 (Token returned). Token Expiry Time: Backend configuration is 1 day, which is a deviation from the expected typical short expiry (e.g., 1 hour). The token payload shows exp.	Pass	https://drive.google.com/file/d/16FwgAnH8kp2wuYOqtl4R32qzo2oNnyCt/view?usp=drivesdk

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Test_Id	Title	Expected Results	Actual Results	Remarks	Screenshot
TC_LU_16	Verify token expiration	Token duration check. The token's lifespan was checked and found to be 1 day (24 hours).	Token duration check. The token's lifespan was checked and found to be 1 day (24 hours).	Pass	
TC_LU_17	Verify login response headers	Header check passed. The response was confirmed to be in the standard JSON format and instructed the browser not to cache the data.	Content-Type: application/json and Cache-Control: no-cache, no-store, max-age=0, must-revalidate are present.	Pass	https://drive.google.com/file/d/1xbEO6bxY–RobXVRb7G3vN53UEDrBFLR/view?usp=drivesdk
TC_LU_18	Verify login with special characters in both username and password	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Pass	https://drive.google.com/file/d/1ueGeicCuuWcyoV1VHgbrsZo9y-Yo9tbi/view?usp=drivesdk
TC_LU_19	Verify with different content types (excluding JSON format)	Status: 415 Unsupported Media Type with a message about the unsupported type.	Status: 400 (Bad Request) with error: Unsupported Content-Type and a message listing supported types.	Fail	https://drive.google.com/file/d/19t1-VKHhs1QrJSu1V7Lr_gLhMACKGJ4r/view?usp=drivesdk

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Test_Id	Title	Expected Results	Actual Results	Remarks	Screenshot
TC_LU_20	Verify error message doesn't reveal sensitive info	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Authentication Failure: The login attempt failed because the username or password provided was incorrect.	Pass	https://drive.google.com/file/d/1f-ol86IiZvdpXMXD4pl4hx7txZYtQAUP/view?usp=drivesdk
TC_LU_21	Verify account lock mechanism	Security Lockout: The account was expected to be confirmed as permanently locked after repeated failures.	Security Lockout: The account was temporarily locked because of too many failed login attempts (Rate Limit Reached).	Fail	https://drive.google.com/file/d/1QvtMBtGguNPrtg3wxQYLiyDK3hmJBYI_/view?usp=drivesdk
TC_LU_22	Verify with wrong HTTP method(GET)	Protocol Error: The system failed because the wrong method was used (e.g., using 'View'/'GET' instead of 'Submit'/'POST').	Status is not provided in the response body but message indicates that 'GET' is not supported and allowed method is 'POST'.	Pass	https://drive.google.com/file/d/1xSXEn6rwpSGlOLO-ch6jHMdWxQibECol/view?usp=drivesdk
TC_LU_23	Verify with wrong endpoint	Endpoint Error: The system failed because the address (URL) used for the login page could not be found.	Endpoint Error: The system failed because the required security information (Authorization header) was missing or wrong.	Fail	https://drive.google.com/file/d/1Jz_1rrzK2HjUE48YXxAki744H5e85hAN/view?usp=drivesdk