Project Name	Patient Management System
Module Name	Login
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TEST CASE ID	TEST SCENARIO	TEST CASE	PRE-CONDITION	TEST STEPS	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	(PASS/FAIL)
TC_LOGIN_001	Verify User Can Successfully Log In with Valid Credentials	Enter a valid username and password.	A registered user account with valid username and password exists in the system.	1. Enter a valid username and password. 2. Click the "Login" button.	\<Valid Username\> \<Valid Password\>	User should be logged in and directed to the dashboard or homepage.	1. The user is logged into their account. 2. The user is redirected to the dashboard or homepage.	If the expected outcome occurs, mark the test case as passed. If not, mark it as failed.	PASS
TC_LOGIN_002	Validate Error Message for Invalid Username	Enter an invalid username and valid password.	1. Registered user 2. Invalid username	1. Enter an invalid username and valid password. 2. Click Invalid "Login" button.	\<Invalid Username\> \<Valid Password\>	System should display an error message indicating that the username is not recognized.	1. No successful login occurs. 2. An error message is displayed indicating that the username is not recognized.	Check if the error message is displayed as expected. If yes, mark the test case as passed. If not, mark it as failed.	PASS
TC_LOGIN_003	Validate Error Message for Invalid Password	Enter a valid username and an invalid password.	1. Registered user 2. Invalid password	1. Enter a valid username and an invalid password. 2. Click the "Login" button.	\<Valid Username\> \<Invalid Password\>	The system should display an error message indicating that the password is incorrect.	1. No successful login occurs. 2. An error message is displayed indicating that the password is incorrect.	Check if the error message is displayed as expected. If yes, mark the test case as passed. If not, mark it as failed.	PASS
TC_LOGIN_004	Verify User Receives Feedback for Empty Login Fields	Leave both the username and password fields empty.	1. Login page accessible 2. Empty fields	1. Leave both the username and password fields empty. 2. Click the "Login" button.	Leave both username and password fields empty.	The system should display an error message indicating that both fields are required.	1. No successful login occurs. 2. An error message is displayed indicating that both fields are required.	Check if the error message is displayed as expected. If yes, mark the test case as passed. If not, mark it as failed.	PASS
TC_LOGIN_005	Confirm User Cannot Log In to a Locked Account	Lock the user account by entering incorrect login information multiple times.	1. Registered user 2. Locked account due to multiple times incorrect login	1. Lock the user account by entering incorrect login information multiple times. 2. Attempt to log in with the locked account.	Attempt login with valid username and incorrect password multiple times to lock the account.	The system should prevent the user from logging in and provide a message explaining that the account is locked.	1. The user account remains locked. 2. An appropriate message is displayed to inform the user that their account is locked.	Confirm that the system does not allow login and displays the correct message for a locked account.	PASS
TC_LOGIN_006	Verify "Remember Me" Functionality	Check the "Remember Me" checkbox.	1. Registered user 2. "Remember Me" checkbox is available on the login page.	1. Check the "Remember Me" checkbox. 2. Log in. 3. Log out and close the browser. 4. Re-open the browser and go to the login page.	\<Valid Username\> \<Valid Password\>	The system should automatically log the user in without requiring credentials if the "Remember Me" option was checked.	The user is automatically logged in without requiring credentials on subsequent visits.	Confirm that the system logs in the user automatically without requiring credentials.	PASS
TC_LOGIN_007	Test User Session Timeout Handling	Log in and stay idle for an extended period.	1. User is logged in. 2. Session timeout duration has been set in the system.	1. Log in and stay idle for an extended period. 2. Attempt to perform an action after the session timeout.	\<Valid Username\> \<Valid Password\>	The system should redirect the user to the login page with a message indicating that the session has expired.	1. The user is redirected to the login page. 2. A message indicating that the session has expired is displayed.	Check if the system behaves as expected when the session times out.	PASS
TC_LOGIN_008	Verify Security Measures Against Brute Force Attacks	Login with incorrect credentials multiple times in a short period.	1. Registered user 2. Account is not locked due to previous incorrect login attempts.	1. Attempt to login with incorrect credentials multiple times in a short period.	Attempt to login with incorrect credentials multiple times in a short period.	The system should temporarily lock the account or implement a CAPTCHA to prevent further login attempts.	The account may be temporarily locked or a CAPTCHA may be implemented, depending on the system's security measures.	Confirm if the security measures are implemented as expected after multiple incorrect login attempts.	PASS