Test Plan - Online Medical System

Test File: LoginTest.php

Identifier: LOGIN-SUCCESS-TEST

Test Case: The system shall successfully connect to the database and log in the user when valid credentials are provided.

Preconditions:

1. The database is available and can be accessed.
2. The necessary PHP dependencies are properly configured.
3. The necessary web server environment is set up.
4. The user account with the provided credentials exists in the database.

Input Values:

1. Username: "yuanhsuanlin"
2. Password: "yuan0000"

Execution Steps:

1. Ensure the necessary environment and dependencies are set up.
2. Execute the `testSuccess()` method in the `LoginTest` class.

Expected Results: The system should return `True`, indicating a successful login.

Postconditions: The user is logged in, and a welcome message is displayed.

Identifier: LOGIN-FAILURE-WRONG-CREDENTIALS-TEST

Test Case: The system shall reject the login attempt when wrong credentials are provided.

Preconditions:

1. The database is available and can be accessed.
2. The necessary PHP dependencies are properly configured.
3. The necessary web server environment is set up.
4. The user account with the provided credentials does not exist in the database.

Input Values:

1. Username: "joshuaMaxeen" (invalid username)
2. Password: "yuan0000" (invalid password)

Execution Steps:

1. Ensure the necessary environment and dependencies are set up.
2. Execute the `testFailure_1()` method in the `LoginTest` class.

Expected Results: The system should return `False`, indicating a failed login due to wrong credentials.

Postconditions: The user is not logged in, and no welcome message is displayed.

Identifier: LOGIN-FAILURE-INVALID-PASSWORD-TEST

Test Case: The system shall reject the login attempt when an invalid password is provided.

Preconditions:

1. The database is available and can be accessed.
2. The necessary PHP dependencies are properly configured.
3. The necessary web server environment is set up.

Input Values:

1. Username: "yuanhsuanlin"
2. Password: 0 (invalid password)

Execution Steps:

1. Ensure the necessary environment and dependencies are set up.
2. Execute the `testFailure_2()` method in the `LoginTest` class.

Expected Results: The system should return `False`, indicating a failed login due to an invalid password.

Postconditions: The user is not logged in, and no welcome message is displayed.

Identifier: LOGIN-FAILURE-INVALID-USERNAME-TEST

Test Case: The system shall reject the login attempt when an invalid username is provided.

Preconditions:

1. The database is available and can be accessed.
2. The necessary PHP dependencies are properly configured.
3. The necessary web server environment is set up.

Input Values:

1. Username: 10.344 (invalid username)
2. Password: "yuan0000"

Execution Steps:

1. Ensure the necessary environment and dependencies are set up.
2. Execute the `testFailure_3()` method in the `LoginTest` class.

Expected Results: The system should return `False`, indicating a failed login due to an invalid username.

Postconditions: The user is not logged in, and no welcome message is displayed.

Test Identifier	Expected Outcome	Actual Outcome
LOGIN-SUCCESS-TEST	True	True
LOGIN-FAILURE-WRONG-CREDENTIALS-TEST	False	False
LOGIN-FAILURE-INVALID-PASSWORD-TEST	False	False
LOGIN-FAILURE-INVALID-USERNAME-TEST	False	False