

Algorithm: Handling User Authentication

1.Add Dependencies:

Modify pom.xml to include dependencies for JUnit 5.

2.Create Authentication Class:

Create a new Java class for user authentication (AuthenticationClass).

Implement methods for user login, logout, and other authentication-related functions.

3.Implement Test Class:

Create a new Java class for JUnit tests (AuthenticationClassTest).

Import JUnit annotations and necessary libraries.

Write test methods for each function in the AuthenticationClass.

3.Initialize Test Environment:

Use annotations like `@BeforeEach` to set up any necessary preconditions.

If applicable, mock external dependencies using Mockito.

4.Write Test Cases:

Implement test cases using assertions to verify the correctness of each method.

Include cases for valid and invalid inputs.

5.Run JUnit Tests:

Right-click on the test class.

Run it as a JUnit test.

Verify that all tests pass without failures or errors.