**Handling User Authentication- ALGORITHM**

**Step 1: Set up Maven:**

* Install Maven if it's not already installed.
* Go to file, choose new maven project
* Check the checkbook “create simple maven project”
* Give groupId as “com.userAuthentication” and artifactId as “UserAuthentication” and click finish.

**Step 2: Create the authentication class:**

* In your IDE or a text editor, create a new Java class called `AuthenticationUser` within the `src/main/java/com/userAuthentication ` directory.
* Implement the necessary methods for user authentication, such as email and password or any other authentication-related functionality as per your requirements.

**Step 3: Create the JUnit test class:**

* In the same `com.userAuthentication ` package, create a new Java class called `AuthTest` within the `src/test/java` directory.
* Import the necessary JUnit and authentication class dependencies.
* Write test methods to verify the behavior of the authentication methods in the `Authentication` class.
* Use annotations such as `@Test` to mark each test method.

**Step 4: Run the JUnit tests:**

* Right click on AuthTest class, run as JUnit.
* Check the test results in the console output to see if all the tests pass.

**Step 5: Review the test results:**

* If all tests pass, you will see a summary of the test execution.
* If any tests fail, you will see detailed information about the failures and errors encountered during the test execution. Review the failures and modify your authentication class or tests accordingly.