

Team 15

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Test cases:

1. testSignUpPositive(): sign up a non-existing user will return a unique token
2. testSignUpNegative(): sign up an existing user will return error
3. testForgotPassword(): forgot password option given the correct email will return a unique token
4. testChangePasswordPositive(): change password returns true if correct old password is provided -> password updated inside DB
5. testChangePasswordNegative(): change password returns false if incorrect old password is provided -> password not updated inside DB
6. testVerifyEmailPositive(): verify unvalidated account will return true -> Account status updated to "VALIDATED" inside DB
7. testVerifyEmailNegative(): verify validated account will return false -> Account status will not be affected

Test Report:

The screenshot shows an IDE with a project named 'TDD' and a test report for 'TestUserManagement.html'. The test report shows 7 tests passed out of 7 tests, with a total time of 502ms. The tests are:

- testForgotPassword: 447ms
- testVerifyEmailPositive: 7ms
- testVerifyEmailNegative: 7ms
- testSignUpPositive: 6ms
- testSignUpNegative: 15ms
- testChangePasswordPositive: 13ms
- testChangePasswordNegative: 7ms

The code editor shows the following Java code for 'TestUserManagement.java':

```
1 import UserManagement.UserManager;
2 import db.DataConn;
3 import org.junit.AfterClass;
4 import org.junit.Assert;
5 import org.junit.Assert.*;
6 import org.junit.Test;
7 import org.junit.jupiter.api.Order;
8
9 import java.sql.SQLException;
10 import java.util.ArrayList;
11
12 public class TestUserManagement {
13     UserManager UM = new UserManager();
14     static ArrayList<String> users = new ArrayList<>();
15
16     @Test
17     public void testSignUpPositive(){
18         // test return a token (not null)
19         String user = "test1";
20         users.add(user);
21         String token = UM.signUp(user, FName: "first", LName: "last", email: "email1", password: "password");
22         Assert.assertTrue(!token.contains("Error"));
23     }
24
25     @Test
26     public void testSignUpNegative(){
27         String user = "test2";
28         users.add(user);
29     }
30 }
```

TestUserManagement: 7 total, 7 passed

502 ms

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/Users/khoatrinh/Library/Java/JavaVirtualMachines/openjdk-17.0.1/Contents/Home/bin/java -ea -Didea.test.cyclic.buffer.size=1048576 -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea\_rt.jar=52935:/Applications/IntelliJ IDEA.app/Contents/bin -Dfile.encoding=UTF-8 -classpath /Applications/IntelliJ IDEA.app/Contents/lib/idea\_rt.jar:/Applications/IntelliJ IDEA.app/Contents/plugins/junit/lib/junit-rt.jar:/Users/khoatrinh/Documents/SOFTWARE ENGINEER/YEAR 3.1/SOEN387 - Enterprise Web App/A3/TDD/target/test-classes:/Users/khoatrinh/Documents/SOFTWARE ENGINEER/YEAR 3.1/SOEN387 - Enterprise Web App/A3/TDD/target/classes:/Users/khoatrinh/.m2/repository/com/github/mifmif/generex/1.0.2/generex-1.0.2.jar:/Users/khoatrinh/.m2/repository/dk/brics/automaton/automaton/1.11-8/automaton-1.11-8.jar:/Users/khoatrinh/.m2/repository/junit/junit4/12/junit-4.12.jar:/Users/khoatrinh/.m2/repository/org/hamcrest/hamcrest-core/1.3/hamcrest-core-1.3.jar:/Users/khoatrinh/.m2/repository/org/junit/jupiter/junit-jupiter/5.8.2/junit-jupiter-5.8.2.jar:/Users/khoatrinh/.m2/repository/org/junit/jupiter-api/5.8.2/junit-jupiter-api-5.8.2.jar:/Users/khoatrinh/.m2/repository/org/opentest4j/opentest4j/1.2.0/opentest4j-1.2.0.jar:/Users/khoatrinh/.m2/repository/org/junit/platform/junit-platform-commons/1.8.2/junit-platform-commons-1.8.2.jar:/Users/khoatrinh/.m2/repository/org/apiguardian/apiguardian-api/1.1.2/apiguardian-api-1.1.2.jar:/Users/khoatrinh/.m2/repository/org/junit/jupiter/junit-jupiter-params/5.8.2/junit-jupiter-params-5.8.2.jar:/Users/khoatrinh/.m2/repository/org/junit/jupiter/junit-jupiter-engine/5.8.2/junit-jupiter-engine-5.8.2.jar:/Users/khoatrinh/.m2/repository/org/junit/platform/junit-platform-engine/1.8.2/junit-platform-engine-1.8.2.jar:/Users/khoatrinh/.m2/repository/mysql/mysql-connector-java/6.0.6/mysql-connector-java-6.0.6.jar com.intellij.rt.junit.JUnit4TestRunner -ideVersion5 -junit4 TestUserManagement com.mysql.cj.jdbc.Driver Process finished with exit code 0

TestUserManagement.testForgotPassword	passed	447 ms
TestUserManagement.testVerifyEmailPositive	passed	7 ms
TestUserManagement.testVerifyEmailNegative	passed	7 ms
TestUserManagement.testSignUpPositive	passed	6 ms
TestUserManagement.testSignUpNegative	passed	15 ms
TestUserManagement.testChangePasswordPositive	passed	13 ms
TestUserManagement.testChangePasswordNegative	passed	7 ms