

```
public class AuthenticationTest {

    @BeforeEach
    public void setup() {
        Authentication.userList.add(User.builder().userName("Austin").password("pass").role("Admin").build());
        Authentication.userList.add(User.builder().userName("Julia").password("foo").role("User").build());
        Authentication.userList.add(User.builder().userName("Lan").password("bar").role("Developer").build());
        Authentication.userList.add(User.builder().userName("Chuong").password("jar").role("Tester").build());
    }

    @Test
    public void testLogin() {
        Authentication authentication = new Authentication();
        assertEquals(true, authentication.login("Austin", "pass"));
    }

    @Test
    public void testWrongUserLogin() {
        Authentication authentication = new Authentication();
        assertEquals(false, authentication.login("Krishna", "pass"));
    }


    @Test
    public void testRoleAssert() {
        Authentication authentication = new Authentication();
        assertEquals(true, authentication.login("Austin", "pass"));
        assertEquals("Admin", authentication.getRole());
    }


    @Test
    public void testUserAssert() {
        Authentication authentication = new Authentication();
        assertEquals(true, authentication.login("Austin", "pass"));
        assertEquals("Austin", authentication.getUserName());
    }

    @Test
    public void testLogout() {
        Authentication authentication = new Authentication();
        authentication.logout();
        assertEquals(null, authentication.getRole());
    }
}
```


Finished after 0.233 seconds

Runs: 5/5

 Errors: 0

 Failures: 0



>  AuthenticationTest [Runner: JUnit 5] (0.010 s)



Failure Trace

