

Laporan Testing Automation POM pada fitur login OrangeHRM

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1. Test Case

No	Test Case	Expected Result	Status
1	Login dengan data valid (username benar & password benar).	Pengguna berhasil login dan diarahkan ke dashboard.	Passed
2	Login dengan data tidak valid (username benar & password salah).	Pesan error “Invalid credentials” muncul.	Passed
3	Login dengan data tidak valid (username salah & password benar).	Pesan error “Invalid credentials” muncul.	Passed
4	Login dengan data tidak valid (username salah & password salah).	Pesan error “Invalid credentials” muncul.	Passed
5	Login tanpa mengisi username	Pesan error “Required” muncul pada field username.	Passed
6	Login tanpa mengisi password	Pesan error “Required” muncul pada field password.	Passed
7	Login tanpa mengisi username dan password	Pesan error “Required” muncul pada kedua field.	Passed

2. Hasil Pengujian

2.1. Login dengan data valid

Kode Tes :

```
cypress > e2e > login_valid.cypress > ...
46 // POM
47 /// <reference types="cypress" />
48 import loginValid from '../support/page_objects/loginValid';
49
50 describe('Login Feature - Valid Credentials with POM', () => {
51   beforeEach(() => {
52     cy.intercept('POST', '**/web/index.php/auth/validate').as('loginRequest');
53   });
54
55   it('Pengguna dapat login dengan data valid', () => {
56     loginValid.visitLoginValid();
57
58     loginValid.verifyLoginTitleValidloginValid();
59     loginValid.enterUsername('Admin');
60     loginValid.enterPassword('admin123');
61     loginValid.clickLoginButton();
62
63     cy.wait('@loginRequest').then((interception) => {
64       expect(interception.response.statusCode).to.be.oneOf([200, 302]);
65     });
66
67     loginValid.verifyDashboardHeader('Dashboard');
68   });
69 });
```

Kode POM :

```
cypress > support > page_objects > loginValid.js > ...
1 /// <reference types="cypress" />
2
3 class LoginValid {
4   visitLoginValid() {
5     cy.visit('https://opensource-demo.orangehrmlive.com/web/index.php/auth/login');
6     cy.get('[name="username"]', { timeout: 10000 }).should('be.visible');
7   }
8
9   verifyLoginTitleValidloginValid() {
10    cy.get('.oxd-text.oxd-text--h5.orangehrm-login-title')
11      .should('have.text', 'Login');
12  }
13
14   enterUsername(username) {
15     cy.get('[name="username"]').type(username);
16   }
17
18   enterPassword(password) {
19     cy.get('[name="password"]').type(password);
20   }
21
22   clickLoginButton() {
23     cy.get('.oxd-button.oxd-button--medium.oxd-button--main.orangehrm-login-button')
24       .click();
25   }
26
27   verifyDashboardHeader(expectedHeader) {
28     cy.get('.oxd-text.oxd-text--h6.oxd-topbar-header-breadcrumb-module')
29       .should('have.text', expectedHeader);
30   }
31 }
32
33 export default new LoginValid();
34
```

Hasil Pengujian :

The screenshot displays the Cypress test runner interface on the left and the OrangeHRM dashboard on the right. The Cypress test runner shows the execution of the 'login_valid.cypress' file. The test suite 'Login Feature - Valid Credentials with POM' is running, and the test 'Pengguna dapat login dengan data valid' is passing. The test steps include visiting the login page, verifying the login title, entering the username 'Admin' and password 'admin123', clicking the login button, and verifying the dashboard header. The Cypress test runner shows the following steps:

- (page load) --page loaded--
- (authn) POST 200 /web/index.php/auth/validate
- (new url) https://opensource-demo.orangehrmlive.com/web/index.php/dashboard/index
- (xhr) GET 304 /web/index.php/core/118/messages
- wait @loginRequest
- expect expected [200, 302] to be an array
- expect expected 302 to be one of [200, 302]
- get .oxd-text.oxd-text--h6.oxd-topbar-header-breadcrumb-module
- expect expected -h6.oxd-text.oxd-text--h6.oxd-topbar-header-breadcrumb-module to have text Dashboard
- (xhr) GET 200 /web/index.php/api/v2/dashboard/shortcuts

The OrangeHRM dashboard is visible on the right, showing the login page with the username 'Admin' and password 'admin123' entered. The dashboard header shows 'Dashboard'.

2.2. Login dengan username benar & password salah

Kode Tes :

```
cypress > e2e > login_invalid_password.cy.js > ...
43 // POM
44 /// <reference types="cypress" />
45 import InvalidPassword from '../support/page_objects/InvalidPassword';
46
47 describe('Login Feature - Invalid Password', () => {
48   beforeEach(() => {
49     cy.intercept('POST', '**/web/index.php/auth/validate').as('loginRequest');
50   });
51
52   it('Pengguna tidak dapat login dengan data tidak valid (username benar & password salah)', () => {
53     invalidPassword.visitLoginPage();
54
55     invalidPassword.enterUsername('Admin');
56     invalidPassword.enterPassword('wrongpassword');
57
58     invalidPassword.clickLoginButton();
59
60     cy.wait('@loginRequest').then((interception) => {
61       expect(interception.response.statusCode).to.eq(302);
62       expect(interception.response.headers.location).to.include('/auth/login');
63     });
64
65     invalidPassword.verifyErrorMessage('Invalid credentials');
66   });
67 });
```

Kode POM :

```
cypress > support > page_objects > InvalidPassword.js > ...
1 /// <reference types="cypress" />
2
3 class InvalidPassword {
4   visitLoginPage() {
5     cy.visit('https://opensource-demo.orangehrmlive.com/web/index.php/auth/login');
6   }
7
8   enterUsername(username) {
9     cy.get('[name="username"]').type(username);
10  }
11
12   enterPassword(password) {
13     cy.get('[name="password"]').type(password);
14  }
15
16   clickLoginButton() {
17     cy.get('.oxd-button--main.orangehrm-login-button').click();
18  }
19
20   verifyErrorMessage(message) {
21     cy.get('.oxd-alert-content-text').should('contain', message);
22   }
23 }
24
25 export default new InvalidPassword();
```

Hasil Pengujian :

The screenshot displays the Cypress test runner interface on the left and the OrangeHRM login page on the right. The Cypress test runner shows the execution of the 'login_invalid_password' test. The test steps include: clicking the login button, waiting for the 'loginRequest' interception, asserting the status code is 302, asserting the location header includes '/auth/login', and asserting the alert content contains 'Invalid credentials'. The OrangeHRM login page shows the login form with the username 'Admin' and password 'admin123' entered. The page displays an 'Invalid credentials' error message and a 'Login' button.

2.3. Login dengan username salah & password benar

Kode Tes :

```
cypress > e2e > login_invalid_username.cy.js > ...
43 // POM
44 /// <reference types="cypress" />
45 import invalidUsername from '../support/page_objects/InvalidUsername';
46
47 describe('Login Feature - Invalid Username', () => {
48   beforeEach(() => {
49     cy.intercept('POST', '**/web/index.php/auth/validate').as('loginRequest');
50   });
51
52   it('Pengguna tidak dapat login dengan data tidak valid (username salah & password benar)', () => {
53     invalidUsername.visitLoginPage();
54
55     invalidUsername.enterUsername('WrongUser');
56     invalidUsername.enterPassword('admin123');
57
58     invalidUsername.clickLoginButton();
59
60     cy.wait('@loginRequest').then((interception) => {
61       expect(interception.response.statusCode).to.eq(302);
62       expect(interception.response.headers['location']).to.include('/auth/login');
63     });
64
65     invalidUsername.verifyErrorMessage('Invalid credentials');
66   });
67 });
```

Kode POM :

```
cypress > support > page_objects > InvalidUsername.js > ...
1 /// <reference types="cypress" />
2
3 class InvalidUsername {
4   visitLoginPage() {
5     cy.visit('https://opensource-demo.orangehrmlive.com/web/index.php/auth/login');
6   }
7
8   enterUsername(username) {
9     cy.get('[name="username"]').type(username);
10  }
11
12   enterPassword(password) {
13     cy.get('[name="password"]').type(password);
14  }
15
16   clickLoginButton() {
17     cy.get('.oxd-button--main.orangehrm-login-button').click();
18  }
19
20   verifyErrorMessage(message) {
21     cy.get('.oxd-alert-content-text').should('contain', message);
22  }
23 }
24
25 export default new InvalidUsername();
```

Hasil Pengujian :

The image shows the Cypress test runner interface on the left and the OrangeHRM login page on the right. The Cypress interface displays the test results for the 'login_invalid_username' spec. The test passed, with the following steps and assertions:

- 6. `get .oxd-button--main.orangehrm-login-button`
- 7. `-click`
- (page load) --page loaded--
- (other) POST 200 `/web/index.php/auth/validate` (LoginRequest)
- 8. `wait @LoginRequest`
- 9. `-assert expected 302 to equal 302`
- 10. `-assert expected https://opensource-demo.orangehrmlive.com/web/index.php/auth/login to include /auth/login`
- 11. `get .oxd-alert-content-text`
- (xhr) GET 304 `/web/index.php/core/f11n/messages`
- 12. `-assert expected <p.oxd-text.oxd-text--p.oxd-alert-content-text> to contain Invalid credentials`

The OrangeHRM login page on the right shows the login form with the following fields and values:

- Username: Admin
- Password: admin123
- Invalid credentials error message: Invalid credentials

2.4. Login dengan username & password salah

Kode Tes :

```
cypress > e2e > login_invalid_password&username.cy.js > ...
39 // POM
40 /// <reference types="cypress" />
41 import InvalidBoth from '../support/page_objects/InvalidBoth';
42
43 describe('Login Feature - Invalid Username and Password', () => {
44   const invalidBoth = new InvalidBoth();
45
46   it('Pegguna tidak dapat login dengan data tidak valid (username salah & password salah)', () => {
47     invalidBoth.visit();
48
49     cy.intercept('POST', '/web/index.php/auth/validate').as('loginRequest');
50
51     invalidBoth.fillUsername('WrongUser');
52     invalidBoth.fillPassword('wrongpassword');
53     invalidBoth.submitLogin();
54
55     cy.wait('@loginRequest').its('response.statusCode').should('eq', 302);
56
57     invalidBoth.checkUrl();
58
59     invalidBoth.getInvalidCredentialsMessage().should('contain', 'Invalid credentials');
60   });
61 });
```

Kode POM :

```
cypress > support > page_objects > InvalidBoth.js > ...
1 class InvalidBoth {
2   visit() {
3     cy.visit('https://opensource-demo.orangehrmlive.com/web/index.php/auth/login');
4   }
5
6   fillUsername(username) {
7     cy.get('[name="username"]').type(username);
8   }
9
10  fillPassword(password) {
11    cy.get('[name="password"]').type(password);
12  }
13
14  submitLogin() {
15    cy.get('.oxd-button--main').click();
16  }
17
18  getInvalidCredentialsMessage() {
19    return cy.get('.oxd-alert-content-text');
20  }
21
22  checkUrl() {
23    cy.url().should('include', '/auth/login');
24  }
25 }
26
27 export default InvalidBoth;
```

Hasil Pengujian :

The image shows the Cypress test runner interface on the left and the OrangeHRM login page on the right. The Cypress interface displays the test results for the 'login_invalid_password&username' test. The test passed, with the following steps and assertions:

- (page load) --page loaded--
- (other) POST 200 /web/index.php/auth/validate (LoginRequest)
- wait (LoginRequest)
- its .response.statusCode
- assert expected 302 to equal 302
- url
- assert expected https://opensource-demo.orangehrmlive.com/web/index.php/auth/login to include /auth/login
- get .oxd-alert-content-text
- (xhr) GET 304 /web/index.php/core/login/messages
- assert expected <p.oxd-text.oxd-text--p.oxd-alert-content-text> to contain Invalid credentials

The OrangeHRM login page on the right shows the login form with the following details:

- Username: Admin
- Password: admin123
- Invalid credentials message displayed above the form.
- Login button.
- Forgot your password? link.

2.5. Login tanpa mengisi username

Kode Tes :

```
cypress > e2e > login_empty_username.cy.js > ...  
33 // POM  
34 /// <reference types="cypress" />  
35  
36 import EmptyUsername from '../support/page_objects/EmptyUsername';  
37  
38 describe('Login Feature - Empty Username', () => {  
39   const emptyUsernameObj = new EmptyUsername();  
40  
41   it('Pengguna tidak dapat login jika username tidak diisi', () => {  
42     emptyUsernameObj.visit();  
43  
44     emptyUsernameObj.fillUsername('');  
45     emptyUsernameObj.fillPassword('admin123');  
46     emptyUsernameObj.submitLogin();  
47  
48     emptyUsernameObj.getRequiredMessage().should('be.visible');  
49   });  
50 });
```

Kode POM :

```
cypress > support > page_objects > EmptyUsername.js > ...  
1 class EmptyUsername {  
2   visit() {  
3     cy.visit('https://opensource-demo.orangehrmlive.com/web/index.php/auth/login');  
4   }  
5  
6   fillUsername(username) {  
7     cy.get('[name="username"]').clear();  
8     if (username) {  
9       cy.get('[name="username"]').type(username);  
10    }  
11  }  
12  
13  fillPassword(password) {  
14    cy.get('[name="password"]').clear().type(password);  
15  }  
16  
17  submitLogin() {  
18    cy.get('.oxd-button--main').click();  
19  }  
20  
21  getRequiredMessage() {  
22    return cy.contains('Required');  
23  }  
24 }  
25  
26 export default EmptyUsername;
```

Hasil Pengujian :

The image shows the Cypress test runner interface on the left and the OrangeHRM login page on the right. The Cypress interface displays the test suite 'login_empty_username' with a passing status. The command log shows the following steps: visit, get, clear, type, click, and contains. The final command, 'expected <span.oxd-text.oxd-text--span.oxd-input-field-error-message.oxd-input-group__message> to be visible', is highlighted in green, indicating it passed. The OrangeHRM login page on the right shows the login form with the username 'Admin' and password 'admin123' entered. The 'Login' button is visible, and the page title is 'Login'.

2.6. Login tanpa mengisi password

Kode Tes :

```
cypress > e2e > login_empty_password.cy.js > ...
34 // POM
35 /// <reference types="cypress" />
36
37 import EmptyPassword from '../support/page_objects/EmptyPassword';
38
39 describe('Login Feature - Empty Password', () => {
40   const emptyPasswordObj = new EmptyPassword();
41
42   it('Pengguna tidak dapat login jika password tidak diisi', () => {
43     emptyPasswordObj.visit();
44
45     emptyPasswordObj.fillUsername('Admin');
46     emptyPasswordObj.fillPassword('');
47     emptyPasswordObj.submitLogin();
48
49     emptyPasswordObj.getRequiredMessage().should('be.visible');
50   });
51 });
52
```

Kode POM :

```
cypress > support > page_objects > EmptyPassword.js > ...
1 class EmptyPassword {
2   visit() {
3     cy.visit('https://opensource-demo.orangehrmlive.com/web/index.php/auth/login');
4   }
5
6   fillUsername(username) {
7     cy.get('[name="username"]').clear().type(username);
8   }
9
10  fillPassword(password) {
11    cy.get('[name="password"]').clear();
12    if (password) {
13      cy.get('[name="password"]').type(password);
14    }
15  }
16
17  submitLogin() {
18    cy.get('.oxd-button--main').click();
19  }
20
21  getRequiredMessage() {
22    return cy.contains('Required');
23  }
24 }
25
26 export default EmptyPassword;
27
```

Hasil Pengujian :

The image shows two side-by-side screenshots. The left screenshot is a Cypress test runner window displaying the test results for 'login_empty_password.cyp'. The test passed, and the final assertion is highlighted in green: 'assert expected <span.oxd-text.oxd-text--span.oxd-input-field-error-message.oxd-input-group_message> to be visible'. The right screenshot is a web browser window showing the OrangeHRM login page. The page has an orange and white theme. The login form has fields for 'Username' (filled with 'Admin') and 'Password' (filled with 'admin123'). Below the fields is a 'Login' button. A red error message 'Required' is visible below the password field, indicating that the password is required.

2.7. Login tanpa mengisi username & password

Kode Tes :

```
cypress > e2e > login_empty_username&password.cy.js > ...
35 // POM
36 /// <reference types="cypress" />
37
38 import EmptyBoth from '../support/page_objects/EmptyBoth';
39
40 describe('Login Feature - Empty Username & Password', () => {
41   const emptyBothObj = new EmptyBoth();
42
43   it('Pengguna tidak dapat login jika password tidak diisi', () => {
44     emptyBothObj.visit();
45
46     emptyBothObj.fillUsername('');
47     emptyBothObj.fillPassword('');
48     emptyBothObj.submitLogin();
49
50     emptyBothObj.getRequiredMessage().should('be.visible');
51   });
52 });
53
```

Kode POM :

```
cypress > support > page_objects > EmptyBoth.js > ...
1 class EmptyBoth{
2   visit() {
3     cy.visit('https://opensource-demo.orangehrmlive.com/web/index.php/auth/login');
4   }
5
6   fillUsername(username) {
7     cy.get('[name="username"]').clear();
8     if (username) {
9       cy.get('[name="username"]').type(username);
10    }
11  }
12
13  fillPassword(password) {
14    cy.get('[name="password"]').clear();
15    if (password) {
16      cy.get('[name="password"]').type(password);
17    }
18  }
19
20  submitLogin() {
21    cy.get('.oxd-button--main').click();
22  }
23
24  getRequiredMessage() {
25    return cy.contains('Required');
26  }
27 }
28
29 export default EmptyBoth;
```

Hasil Pengujian :

The image shows the Cypress test runner interface on the left and the OrangeHRM login page on the right. The Cypress test runner displays the test suite 'login_empty_username&password' with a passing status. The test body shows the following steps: visit, get, clear, get, clear, get, click, and contains. The test passed, and the required message is visible. The OrangeHRM login page is shown with the username 'Admin' and password 'admin123' entered. The login button is visible, and the required message is displayed below the password field.