

## Cypress DEMO (koraci sa predavanja)

### Preduslov za kreiranje testova u Cypress-u:

|   |
|---|
| 1. Instalirati NodeJs: <a href="https://nodejs.org/en/">https://nodejs.org/en/</a>                            |
| 2. Kreirati folder na desktopu u kojem ćemo čuvati projekat   |
| 3. Instalirati VisualStudioCode : <a href="https://code.visualstudio.com/">https://code.visualstudio.com/</a> |
| 4. Otvoriti VSC pa otvoriti folder projekta (File > Open folder)  |
| 5. Otvoriti terminal (View > Terminal)  |
| 6. U terminalu inicijalizovati projekat uz pomoć komande: <b>npm init -y</b>                                  |
| 7. Instalirati Cypress tako što u terminalu kucamo: <b>npm install cypress --save -dev</b>                    |
| 8. Otvoriti Cypress uz pomoć komande: <b>npx cypress open</b>   |

### URL aplikacije za testiranje:

<https://opensource-demo.orangehrmlive.com/web/index.php/auth/login>

### Koraci za pisanje testova:

|   |
|---|
| 1. Unutar e2e foldera, kreirati login.cy.js.  |
| 2. U login.cy.js definisati describe blok, a unutar njega 3 it bloka. Primeri će biti:<br><i>1.T.C. Verify that user can login with correct username and password</i><br><i>2.T.C. Verify that user cannot login with incorrect username</i><br><i>3.T.C. Verify that user cannot login with incorrect password</i> |
| 3. Napisati pozitivan scenario za testiranje login funkcionalnosti (successful login).<br>Dodati <b>.only</b> na napisani it blok kako bismo osigurali da se samo on pokreće.   |
| 4. Dodati beforeEach block za URL i aliase  |

```
beforeEach(function() {  
  cy.visit('https://opensource-demo.orangehrmlive.com/web/index.php/auth/login');  
  cy.get(':nth-child(2) > .oxd-input-group > :nth-child(2) > .oxd-input').as('usernameField');  
  cy.get(':nth-child(3) > .oxd-input-group > :nth-child(2) > .oxd-input').as('passwordField');  
})
```

5. Napraviti test podatke u user.json file-u u fixtures folderu i uvesti ih u test.

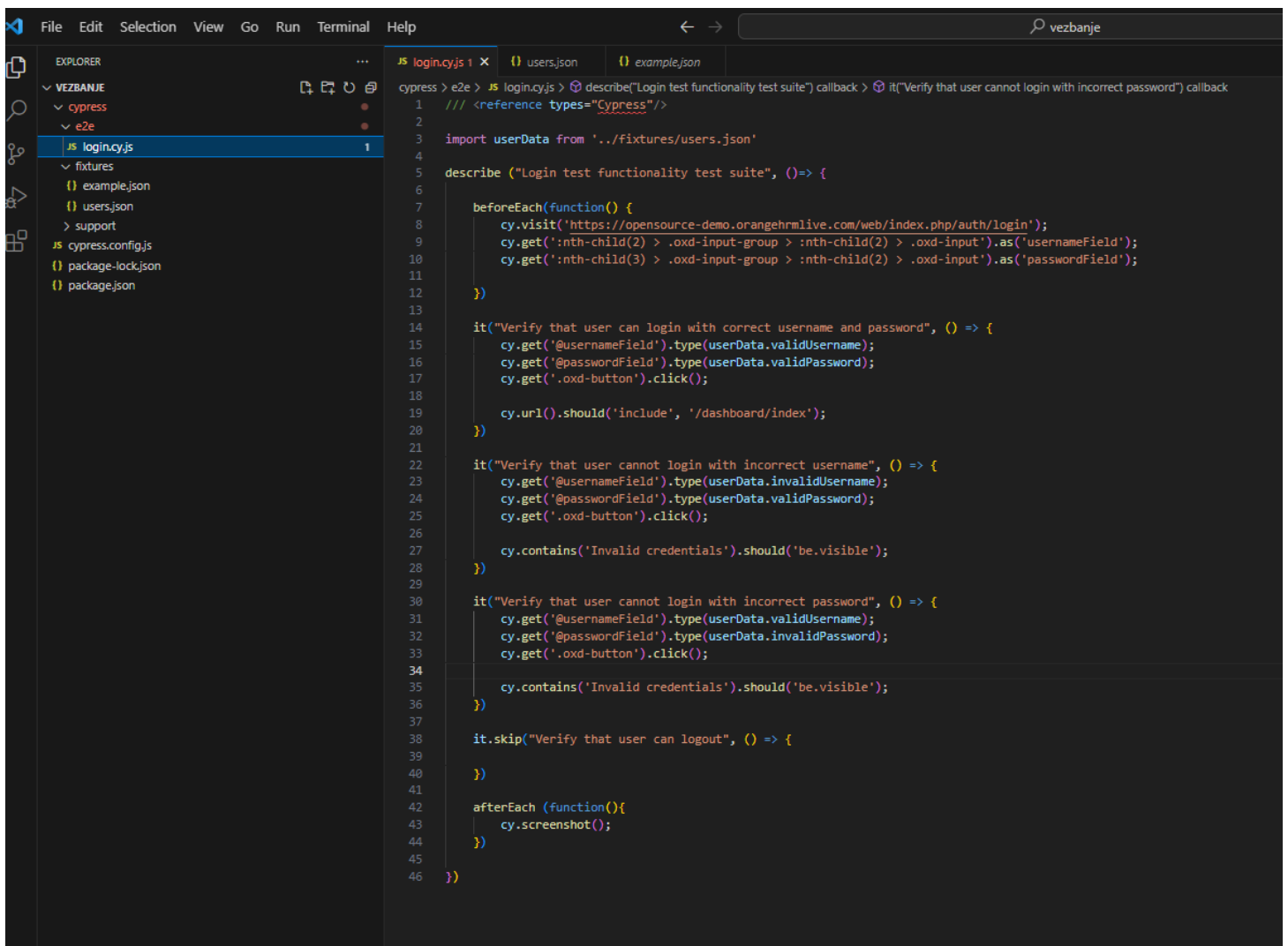
```
{  
  "validUsername": "Admin",  
  "invalidUsername": "greska",  
  "validPassword": "admin123",  
  "invalidPassword": "greska"  
}
```

6. Dodati afterEach blok sa komandom screenshot:

```
afterEach(() => {  
  cy.screenshot()  
})
```

7. Preko GUI-ja pokrenuti test uz pomoć komande: **npx cypress open**  
pa kliknuti na naziv testa: **login.cy.js**

Finalni izgled framework-a:



```
File Edit Selection View Go Run Terminal Help  
vezbanje  
EXPLORER  
VEZBANJE  
  cypress  
  e2e  
    login.cy.js  
  fixtures  
    example.json  
    users.json  
  support  
  cypress.config.js  
  package-lock.json  
  package.json  
login.cy.js 1  
users.json  
example.json  
cypress > e2e > JS login.cy.js > describe("Login test functionality test suite") callback > it("Verify that user cannot login with incorrect password") callback  
1  /// <reference types="Cypress"/>  
2  
3  import userData from '../fixtures/users.json'  
4  
5  describe ("Login test functionality test suite", () => {  
6  
7    beforeEach(function() {  
8      cy.visit('https://opensource-demo.orangehrmlive.com/web/index.php/auth/login');  
9      cy.get(':nth-child(2) > .oxd-input-group > :nth-child(2) > .oxd-input').as('usernameField');  
10     cy.get(':nth-child(3) > .oxd-input-group > :nth-child(2) > .oxd-input').as('passwordField');  
11  
12    })  
13  
14    it("Verify that user can login with correct username and password", () => {  
15      cy.get('@usernameField').type(userData.validUsername);  
16      cy.get('@passwordField').type(userData.validPassword);  
17      cy.get('.oxd-button').click();  
18  
19      cy.url().should('include', '/dashboard/index');  
20    })  
21  
22    it("Verify that user cannot login with incorrect username", () => {  
23      cy.get('@usernameField').type(userData.invalidUsername);  
24      cy.get('@passwordField').type(userData.validPassword);  
25      cy.get('.oxd-button').click();  
26  
27      cy.contains('Invalid credentials').should('be.visible');  
28    })  
29  
30    it("Verify that user cannot login with incorrect password", () => {  
31      cy.get('@usernameField').type(userData.validUsername);  
32      cy.get('@passwordField').type(userData.invalidPassword);  
33      cy.get('.oxd-button').click();  
34  
35      cy.contains('Invalid credentials').should('be.visible');  
36    })  
37  
38    it.skip("Verify that user can logout", () => {  
39  
40    })  
41  
42    afterEach (function){  
43      cy.screenshot();  
44    }  
45  
46  })
```