# Week 10 In-class Assignment

## Assessment Weight

0.5% of your final course Grade

## Specification

In this in-class assignment, you'll practice E2E testing in a Next.js project downloaded from GitHub using Cypress testing library, including Installing / Configuring Cypress, and writing testing code to Next.js application. Here are the detailed instructions:

1. Download example projects from the [GitHub repository](https://github.com/fojanb/login-nextjs) of **Login-Nextjs**. Open the downloaded project using VSCode and run the command in the terminal:

>npm install

>npm run dev

1. Open <http://localhost:3000> with your browser, then register using your **LAST NAME** for the username, e.g.:

Graphical user interface, text, application

Description automatically generated

1. Go to terminal in VS Code to find the user object generated for your registration:

Text

Description automatically generated

1. Open the ***user.js*** file under the ***lib*** folder of the project. Copy your user object outputted from terminal (see above screenshot) and add this user object into the "User List", i.e., the **users** array, as the second user registered in the application. Then login the app:

Graphical user interface, text, application, email

Description automatically generated Graphical user interface, text, application

Description automatically generated

1. Install and setup Cypress testing library in the project by following "[**Installing / Configuring Cypress**](https://webprogrammingforappsandservices.sdds.ca/Testing-Introduction/e2e-testing#installing--configuring-cypress)" section from the lecture notes of this week.
2. Write your E2E (End to End) testing code using Cypress syntax in the **cypress/e2e/spec.cy.js** file with the 3 tests:
   * Test 1 Protected Route **/dashboard**
   * Test 2 Rejecting Invalid Users
   * Test 3 Granting Access to Valid Users

Note: To complete your own tests for the **Login-Nextjs** project, you are required to study and mimic 3 tests for **Iron-Session** app on the lecture notes of this week:

### [Test 1 Protected Route /profile-sg](https://webprogrammingforappsandservices.sdds.ca/Testing-Introduction/e2e-testing#test-1-protected-route-profile-sg)

### [Test 2 Rejecting Invalid Github Users](https://webprogrammingforappsandservices.sdds.ca/Testing-Introduction/e2e-testing#test-2-rejecting-invalid-github-users)

### [Test 3 Granting Access to Valid Github Users](https://webprogrammingforappsandservices.sdds.ca/Testing-Introduction/e2e-testing#test-3-granting-access-to-valid-github-users)

## Submission

* Show your Cypress test code in **spec.cy.js** and demonstrate the test result in browser with at least 2 tests complete and pass the test.