

There are found errors and bad practices in cypressAllure project:

#### **Project structure and configuration:**

The current configuration file for Cypress tests, **config/config.config.ts**, is located inside the config folder. It should be renamed to **cypress.config.ts** and it is recommended to move this file to the root **cypressAllure** folder for better organization and easier access.

The configuration file for Cypress contains several options that are meant to be inside the e2e configuration object, but are placed outside of it. Specifically, the following options should be moved inside the **e2e** object:

- video
- defaultCommandTimeout
- execTimeout
- taskTimeout
- pageLoadTimeout
- requestTimeout
- responseTimeout
- screenshotsFolder
- videosFolder
- env

The codebase has two sets of files for the same purpose, **commands.js** and **commands.ts**, as well as **e2e.js** and **e2e.ts**, in the cypress/support directory. These files are expected to contain custom commands and global configuration and behavior modifications for Cypress. There should only be one set of files for the custom commands and global configuration and behavior modifications for Cypress in the **cypress/support** directory.

Should be removed redundant files and be kept only one set of files for the custom commands and global configuration and behavior modifications for Cypress in the cypress/support directory.

There is no file present in the **cypressAllure** project that contains a description of the test cases. It is recommended to create a separate file that outlines the test cases, which can be used as a reference while reviewing the test results. This will help to ensure that all expected scenarios have been covered and provide a clear understanding of the test suite's purpose.

In **tsconfig.json** line 8, **"skipLibCheck": true** is set, which might cause issues with type checking. If you're using third-party libraries, you may want to remove this line to ensure that the compiler checks the types.

In **package.json** line 5, the **"main"** property is set to **"index.js"**, but the project is written in TypeScript, so this should probably be set to **"index.ts"**.

In the **cypress/plugins/index.js** file, the 'require' syntax is used instead of the 'import' syntax. It is recommended to use the import syntax for consistency and to take advantage of TypeScript's type-checking.

Allure configuration is invalid and does not work. Running **'npm run clear'** causes the mistake **"Invalid switch - "\*\*\*. 'true' is not recognized as an internal or external command, operable program or batch file."**

#### **README:**

There is no **title** for project's features

It is better to add a link in **README** file to clone the repository

There is **no info on how to generate Allure report** or open it locally

There is **no info about deployed results** on GitHub pages

"Change username and password" step is unclear

#### **Pages:**

The **loginPage** contains the element not belonging to the login page (the **signinLink** lines 4, 16 belongs to the homepage)

When the login verification is performed, the email and password must be entered in separate blocks, **loginPage.ts** line 15.

**loginPage.validateLoginError('Invalid email addressssss.')** is typo issue, line 35

**myAccountPage** uses a **signinLink** from the **loginPage** line 18. Regarding the above comment the MyAccount page would inherit from the Homepage and re-use the **signinLink**

It is better to use **'async'** with the methods of a Page Object to ensure the proper execution and handling of the test cases. Using **'async'** ensures that the assertions will wait for the elements to be available and the tests will have enough time to execute properly.

There should be checks when performing a transition to the page

#### **Tests:**

**The title** of the test should also contain the test case's **description**. Generally the description of the test should contain the test's id. Lines 11, 17, 23, 28, 33.

In the **cypress/e2e/tests/login.test.ts** file, the **'beforeEach'** **'fixture'** block is using a function keyword instead of an arrow function, line 7.

In the **cypress/e2e/tests/login.test.ts** file, the **'it'** blocks are using a function keyword instead of an arrow function, lines 11, 17, 23, 28, 33.

The login with valid credentials tests duplicate each other. The one operating directly with the test data should be removed. **login.test.ts** line 11.

There are reusing the same data in **loginPage.validateLoginError('Authentication failed.')** lines 26, 31. It is better to assign the data to corresponding variables and store them in the **fixture** file.

The "read data from fixture" in the test description is redundant and can be removed. **login.test.ts** lines 17, 23, 28, 33.

The description of **'login with valid credentials'** in this test case is not specific enough. It should include more details about what the test is actually testing. A more appropriate description for this test case could be something like: "Verify successful login and logout with valid credentials." The same issue with **'login with valid credentials read data from fixture'**

Lines 14, 15, 20, and 21 contain irrelevant code (the checks do not correspond the purpose of the test)

**login.test.ts** line 34 does not have a new line before the password argument (like in previous tests)

myAccount.test.ts irrelevant test. The test does not test declared functionality. A dummy test is used instead

**Fixtures:**

The fixtures **users.json** file contains duplicated test data, lines 4, 9 also 13, 17, and 3, 12.

The structure of the test data is overcomplicated.