1. Advantages of Cypress: it uses real browsers, which is identical to user experience

Element visibility, taking videos and other resources if tests fail

2. Disadvantages of Cypress: test scripts can only be in JS, can NOT test multiple pages, cannot visit multiple domains in the same test

3. In terminal, write in npm init -y to initialize our directory as a npm package and create a package.json file

4. To install cypress, write in npm install --save--dev cypress

5. After the installation is done, write in npx cypress open

6. In the e2e folder, create first\_test.cy.js file (it is cy, not spec)

7. In the target app, in the terminal, write npm install. A node\_modules folder (for npm dependencies) will show up

8. Write ‘npm run start’ to start the app

9. it is not recommended to use HTML tags as selectors, because it is much dependent on the current status of the app. The app can change. HTML tags are not unique.

10. It is recommended to use "data-cy=" value of each element

11. To help reduce the repetitive codes, use aliasing elements. Need to use @ to use alias

12. remember to save the cy.js files, so the tests can run

13. In order for the debugger to work, open the Inspect in the browser, run the test again, and the debugger will stop where the debugger is.

14. Press the Resume script execution button or F8

15. Under Inspect, choose Console, type in 'subject', it returns the current subject Cypress is calling, so you can inspect the subject. You can try stuff like subject.text()

16. Another useful way for debuggingGraphical user interface, text, application, Teams

Description automatically generated

17. the 1st way to add environmental variables, in terminal, type export CYPRESS\_MY\_ENV\_VARIABLE= “hello”

18. at the top of the file, write alert(Cypress.env('MY\_ENV\_VARIABLE')); and then run the file with npx cypress open, the cypress test window will show the value of the alert “hello” (this way does not work for me)

19. to unset the env variable, in the terminal, write “unset CYPRESS\_MY\_ENV\_VARIABLE”

20. the 2nd way to create environment variable, in the terminal, write npx cypress open --env MY\_ENV\_VARIABLE="hello" (this way works for me)

21. the 3rd way: in the root directory, create a cypress.env.json file, write in

{

"MY\_ENV\_VARIABLE": "hello"

}

22. to get some help when writing cypress testing scripts, you can get some help from the code editor. This allows us to leverage VS Code Intellisense for the autocompletion. This applies to each separate file. At the top of your test script, type in /// <reference types="Cypress" />

23. to activate the autocompletion function for the whole project, in the root directory, create a file jsconfig.json, and write

{

"include": [

"./node\_modules/cypress",

"cypress/\*\*/\*.js"

]

}