



# Accessing Elements: Hands-on Exercise

## Setup:

The **start** folder contains the React application, which you will be using for the integration tests. Begin by downloading dependencies and run **npm start** to bring up the React app. You will have to open an alternate terminal to run your tests. Cypress is part of the devDependencies and will be installed along with other packages. You can match your result by comparing it with the contents of the **end** folder.

## Problem Statement:

You will be writing an e2e test to validate the placeholder of an input box. The placeholder text to validate should be the term - 'Search here'.

## Instructions: (Use the start folder for working through this exercise)

- Create a new file with the name "accessing-elements.spec.js" in the cypress/integrations folder.
- Then in the file "accessing-elements.spec.js", write the skeleton of the test case as given below.

```
describe('Accessing Elements', () => {  
  it('placeholder of the input box should match', () => {  
  
  })  
})
```

- Next, we launch the application running on <http://localhost:3000/> as highlighted below.

```
describe('Accessing Elements', () => {  
  it('placeholder of the input box should match', () => {  
    cy.visit('http://localhost:3000/')  
  })  
})
```

- Next, we need to access the input element using cy.get(). Let's use the tag name "input" to search for the element in the DOM. Refer to the code highlighted below.





```
describe('Accessing Elements', () => {  
  it('placeholder of the input box should match', () => {  
    cy.visit('http://localhost:3000/')  
    cy.get('input')  
  })  
})
```

- Next, access the placeholder of the input element using the below method as highlighted.

```
describe('Accessing Elements', () => {  
  it('placeholder of the input box should match', () => {  
    cy.visit('http://localhost:3000/')  
    cy.get('input').invoke('attr', 'placeholder')  
  })  
})
```

- Finally, we will write the assertion to check if the placeholder value matches our expected value. Please refer highlighted code.

```
describe('Accessing Elements', () => {  
  it('placeholder of the input box should match', () => {  
    cy.visit('http://localhost:3000/')  
    cy.get('input').invoke('attr', 'placeholder').should('equal', 'Search here')  
  })  
})
```

- Run “npx cypress open” in terminal. Wait until the cypress interface opens up. Try to locate the test file “accessing-elements.spec.js” under the “e2e-tests” folder and click on the file.
- Cypress will run the test case in the browser and will give you success.
- Once you get the success, close the cypress interface.

