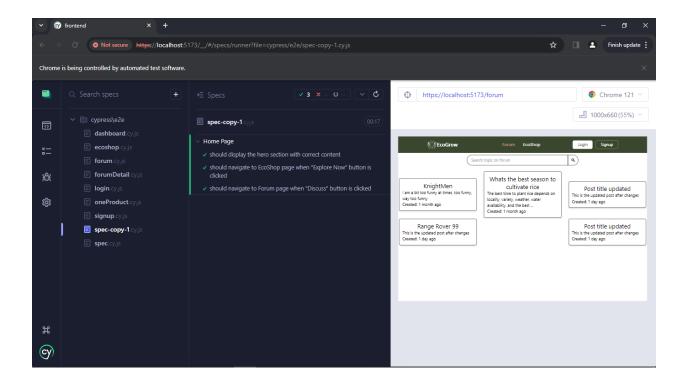
End to End UI Testing

Testing Tool Used: Cypress

----- Home Page Testing Code -----

```
// Home page code
describe("Home Page", () => {
  beforeEach(() => {
   // Visit the home page before each test
    cy.visit("/");
  });
  it("should display the hero section with correct content", () => {
    // Verify the hero section elements and content
    cy.get(".hero-section").should("be.visible");
    cy.contains("h1", "Welcome to EcoGrow AgroTech Solutions").should(
      "be.visible"
    );
    cy.contains("p", "Empowering Farmers, Enhancing
Agriculture").should(
      "be.visible"
    cy.contains("a", "Explore Now").should("be.visible");
    cy.contains("a", "Discuss").should("be.visible");
 });
  it('should navigate to EcoShop page when "Explore Now" button is
clicked', () => {
    // Click on the "Explore Now" anchor tag and verify navigation to
EcoShop page
    cy.contains("a", "Explore Now").click();
    cy.url().should("include", "/ecoshop");
  });
 it('should navigate to Forum page when "Discuss" button is clicked',
```

```
// Click on the "Discuss" anchor tag and verify navigation to
Forum page
    cy.contains("a", "Discuss").click();
    cy.url().should("include", "/forum");
    });
});
```

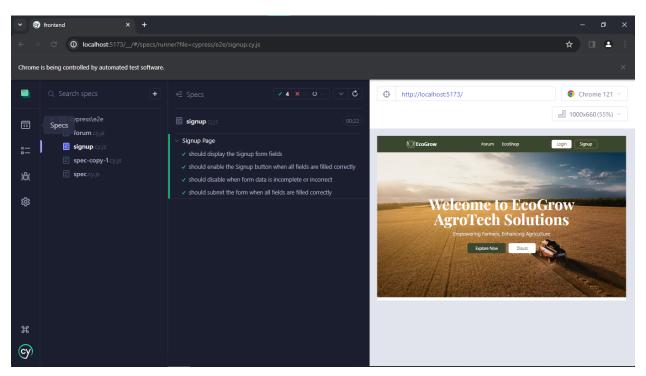


-----Signup Testing code -----

```
// cypress/integration/signup.spec.js
describe("Signup Page", () => {
 beforeEach(() => {
 // Visit the Signup page before each test
 cy.visit("/"); // Assuming the Signup component is part of the home page
 cy.contains("Signup").click(); // Click on the Signup button to open the modal
 });
 it("should display the Signup form fields", () => {
 // Verify the presence of form fields
  cy.get('input[name="Full Name"]').should("be.visible");
 cy.get('input[name="Email"]').should("be.visible");
 cy.get('select[name="Signup As"]').should("be.visible");
 cy.get('input[name="Password"]').should("be.visible");
 });
 it("should enable the Signup button when all fields are filled correctly", () => {
 // Fill in the form fields
 cy.get('input[name="Full Name"]').type("John Doe");
  cy.get('input[name="Email"]').type("john.doe@example.com");
  cy.get('select[name="Signup As"]').select("Farmer");
  cy.get('input[name="Password"]').type("Password123");
 // Verify that the Signup button is enabled
 cy.get('button[type="submit"]').should("not.be.disabled");
 });
 it("should disable when form data is incomplete or incorrect", () => {
 // Attempt to submit the form without filling in any fields
 cy.get('button[type="submit"]').should("be.disabled");
```

```
it("should submit the form when all fields are filled correctly", () => {
    // Fill in the form fields
    cy.get('input[name="Full Name"]').type("John Doe");
    cy.get('input[name="Email"]').type("john.doe@example.com");
    cy.get('select[name="Signup As"]').select("Farmer");
    cy.get('input[name="Password"]').type("Password123");

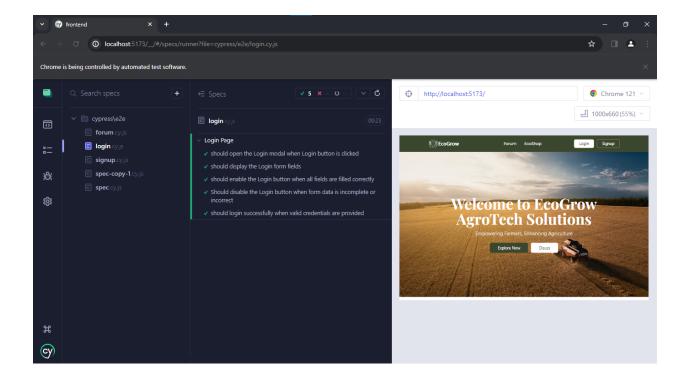
// Submit the form
    cy.get('button[type="submit"]').click();
});
```



-----Login Testing code-----

```
// cypress/integration/login.spec.js
describe("Login Page", () => {
beforeEach(() => {
 // Visit the home page before each test
 cy.visit("/");
});
 it("should open the Login modal when Login button is clicked", () \Rightarrow {
 // Click on the Login button to open the modal
 cy.contains("Login").click();
 // Verify that the Login modal is displayed
 cy.get(".modal").should("be.visible");
 });
 it("should display the Login form fields", () => {
 // Open the Login modal
 cy.contains("Login").click();
 // Verify the presence of form fields in the modal
 cy.get('input[name="Email"]').should("be.visible");
 cy.get('input[name="Password"]').should("be.visible");
});
 it("should enable the Login button when all fields are filled correctly", () \Rightarrow {
 // Open the Login modal
 cy.contains("Login").click();
 // Fill in the form fields
 cy.get('input[name="Email"]').type("test@example.com");
  cy.get('input[name="Password"]').type("password");
```

```
// Verify that the Login button is enabled
 cy.get('button[type="submit"]').should("not.be.disabled");
 });
 it("Should disable the Login button when form data is incomplete or incorrect", () => {
 // Open the Login modal
 cy.contains("Login").click();
 // Verify that an error message is displayed
 cy.get('button[type="submit"]').should("be.disabled");
 });
 it("should login successfully when valid credentials are provided", () => {
 // Open the Login modal
 cy.contains("Login").click();
 // Fill in the form fields with valid credentials
  cy.get('input[name="Email"]').type("test@example.com");
  cy.get('input[name="Password"]').type("password");
 // Submit the form
  cy.get('button[type="submit"]').click();
 // Verify that the modal is closed after successful login
 cy.get(".modal").should("not.exist");
});
});
```



-----Forum Page-----

```
describe("Forum Page", () => {
  beforeEach(() => {
    // Visit the Forum page before each test
    cy.visit("/forum");
});

it("should display the search bar", () => {
    // Verify the presence of the search bar
    cy.get(".forum-search-bar").should("exist");
});

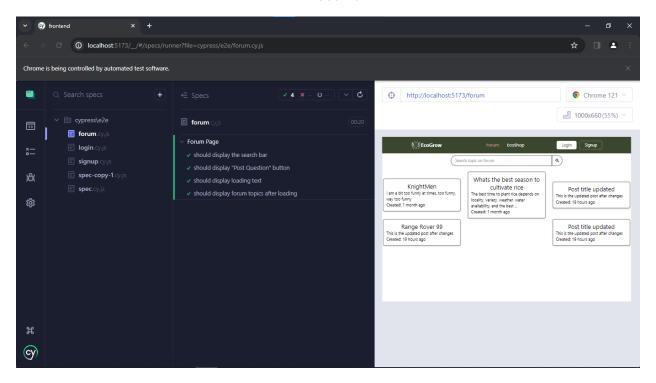
it('should display "Post Question" button', () => {
    // Verify the presence of the "Post Question" button
    cy.get(".search-button").should("be.visible");
});

it("should display loading text", () => {
```

```
// Verify the presence of the loading text
cy.contains("Loading...").should("exist");
});

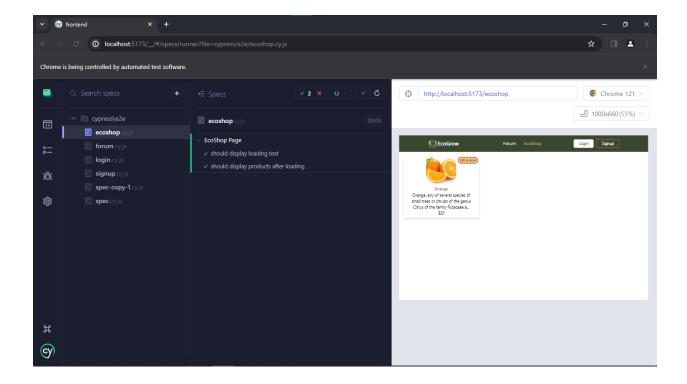
it("should display forum topics after loading", () => {
    // Verify that the loading text disappears after a delay of 1000ms
    cy.contains("Loading...").should("not.exist");

    // Verify the presence of forum topics
    cy.get(".forum-card").should("have.length.greaterThan", 1);
});
});
```



-----EcoShop Page Testing-----

```
describe("EcoShop Page", () => {
beforeEach(() => {
 // Visit the EcoShop page before each test
 cy.visit("/ecoshop");
});
it("should display loading text", () => {
 // Verify the presence of the loading text
 cy.contains("Loading...").should("exist");
});
it("should display products after loading", () => {
 // Verify that the loading text disappears after a delay of 1000ms
 cy.contains("Loading...").should("not.exist");
 // Verify the presence of products
 cy.get(".product-card").should("have.length.gte", 1);
});
});
```



-----Dashboard Page-----

```
// cypress/integration/dashboard.spec.js

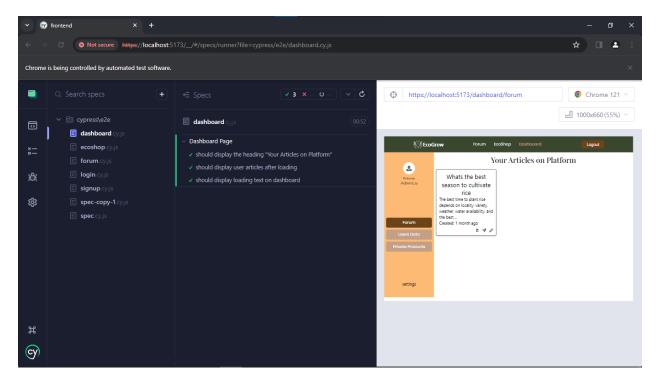
describe("Dashboard Page", () => {
    beforeEach(() => {
        // Visit the home page before each test
        cy.visit("/");

    // Click on the Login button to open the modal
    cy.contains("Login").click();

    // Fill in the form fields with valid credentials
    cy.get('input[name="Email"]').type("adminlia1919@gmail.com");
    cy.get('input[name="Password"]').type("IamPro200k");

// Submit the form
    cy.get('button[type="submit"]').click();
```

```
// Verify that the modal is closed after successful login
 cy.get(".modal").should("not.exist");
  cy.wait(1000);
 // Wait for the redirection to /forum and then navigate to /dashboard/forum
  cy.location("pathname").should("eq", "/forum");
  cy.visit("/dashboard/forum");
 cy.wait(3000);
 });
 it('should display the heading "Your Articles on Platform"', () => {
 // Verify the presence of the heading
 cy.contains("Your Articles on Platform").should("exist");
 });
 it("should display user articles after loading", () => {
 // Wait for a brief moment before checking for forum cards
 cy.wait(1000);
 // Verify the presence of user articles after a delay
 cy.get(".forum-card").should("have.length.gte", 1);
 });
it("should display loading text on dashboard", () => {
 // Verify the presence of loading text
 cy.contains("Loading...").should("exist");
});
});
```



-----One Specific Forum Topic-----

```
// cypress/integration/dashboard.spec.js

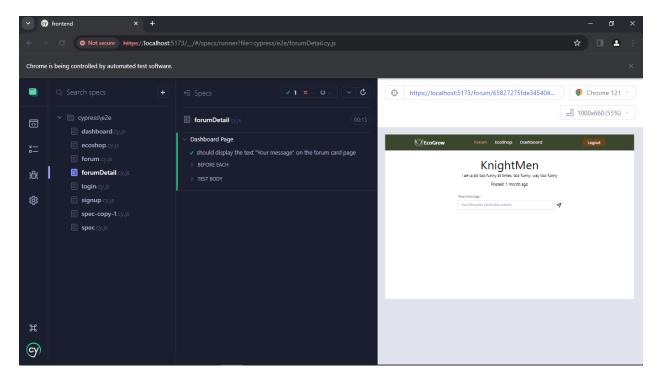
describe("Dashboard Page", () => {
  beforeEach(() => {
    // Visit the home page before each test
    cy.visit("/");

// Click on the Login button to open the modal
    cy.contains("Login").click();

// Fill in the form fields with valid credentials
    cy.get('input[name="Email"]').type("adminlia1919@gmail.com");
    cy.get('input[name="Password"]').type("IamPro200k");

// Submit the form
    cy.get('button[type="submit"]').click();
```

```
// Verify that the modal is closed after successful login
  cy.get(".modal").should("not.exist");
 // Wait for a brief moment before clicking on the forum link in the header
  cy.wait(1000);
 // Click on the forum link in the header
  cy.contains("Forum").click();
 // Wait for a brief moment before clicking on any forum card
 cy.wait(1000);
 // Click on the first forum card to visit its page
 cy.get(".forum-card").first().click();
 // Wait for the redirection to the forum card page
  cy.location("pathname").should("include", "/forum/");
 // Wait for the forum card page to load
 cy.wait(1000);
 });
 it('should display the text "Your message" on the forum card page', () => {
 // Verify the presence of the text "Your message"
 cy.contains("Your message").should("exist");
});
});
```



-----One Product Page-----

```
// cypress/integration/dashboard.spec.js

describe("Dashboard Page", () => {
    beforeEach(() => {
        // Visit the home page before each test
        cy.visit("/");

    // Click on the Login button to open the modal
    cy.contains("Login").click();

    // Fill in the form fields with valid credentials
    cy.get('input[name="Email"]').type("adminlia1919@gmail.com");
    cy.get('input[name="Password"]').type("IamPro200k");

// Submit the form
    cy.get('button[type="submit"]').click();
```

```
// Verify that the modal is closed after successful login
  cy.get(".modal").should("not.exist");
 // Wait for a brief moment before clicking on the EcoShop link in the header
  cy.wait(2000);
 // Click on the EcoShop link in the header
  cy.contains("EcoShop").click();
 // Wait for a brief moment before clicking on any link with class "visit-link"
 cy.wait(1000);
 // Click on any link with class "visit-link"
  cy.get(".visit-link").first().click();
 // Wait for the redirection to the page
  cy.location("pathname").should("not.eq", "/");
 // Wait for the page to load
 cy.wait(1000);
 });
 it('should display some text on the page visited from "EcoShop", () => {
 // Verify the presence of any text on the page
 cy.wait(1000);
 cy.get("body").should("contain", "Orange");
});
});
```

