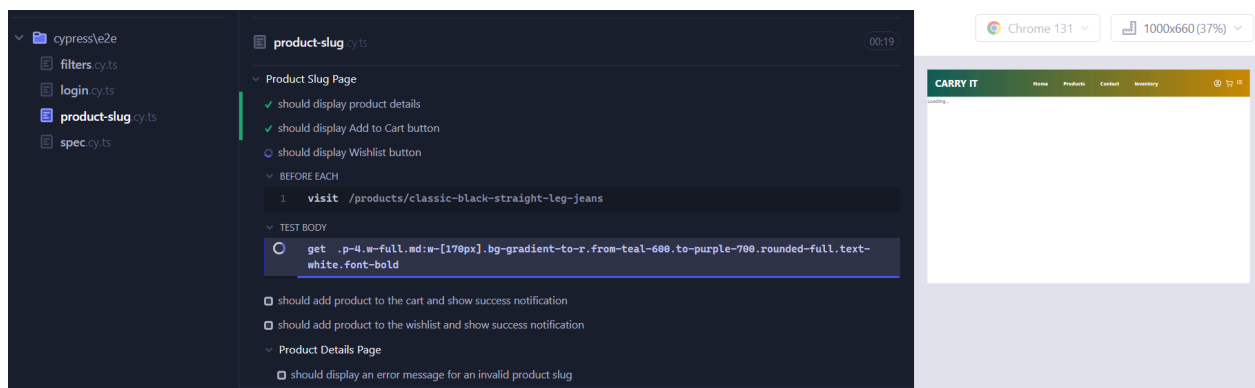


Day 5 - Testing, Error Handling, and Backend Integration Refinement

FUNCTIONAL TESTING :

- Components are tested completely to ensure that the user can interact with the website with easy access
- This document consists of product listing, product detailing ,cart,user management and filters category
- All the components works fine but the user management has some errors thats why i have added the test reports to ensure the results gotten from the tests
- Cypress is used to validate and test the components



ERROR HANDLING:

- Errors are handled in a proper way to satisfy the logic build and create a seamless user experience by ensuring that edge cases and unexpected scenarios are gracefully managed, providing informative feedback, logging for troubleshooting, and maintaining system stability.

```
if (response.ok) {  
  // Redirect to dashboard upon successful login  
  window.location.href = "/dashboard"; // Correctly redirect  
} else {  
  setError(data.error || "Login failed.");  
}  
} catch (error) {  
  console.log("Error logging in:", error); // This is where  
  setError("An unexpected error occurred.");  
}  
};
```

CROSS BROWSER:

- Cross browsing is done and the link of the website works on all platforms like safari, chrome, opera
- **Responsive Design:** Ensuring that the layout adapts well to different screen sizes and orientations on all browsers, especially mobile browsers, is important for cross-browser compatibility.
- **Testing:** Regularly testing websites on different browsers and devices ensures compatibility. Tools like BrowserStack and CrossBrowserTesting can help automate this process.

WORKFLOWS:

- Add to cart system is created for users to interact in real time and ensures interactivity
- Users can check out categories based on their preferences and colours for their products.

TEST RESULTS:

Test results are conducted based on the working of components and a csv test file is generated for a clear working behind the scenes.

Test Case ID	Description	Steps	Expected Result	Actual Result	Status	Remarks
TC001	Validate Product Listing	Open product-listing >Verify products are displayed correctly	Products are displayed from CMS correctly	Products displayed	Passed	None
TC002	Validate products details	Open the product detailing page to see the details of a particular project	Detailing page is opened successfully	Detailing page is opened	Passed	None
TC003	Test Add to cart functionality	When the button is clicked>item is added to cart	Products are added to the cart when it is clicked	Products are added successfully	Passed	Working fine
TC004	Test Checkout Process	Checkout page loads up with all proper details	Checkout process works fully	the page loads up and it works just fine	Passed	none

ERROR HANDLING :

- Errors are handled in a proper way to make sure if the product is working properly or not.

```
    "slug" :slug.current,  
    description,  
    discountPercent,  
  })  
  .then((result) => setData(result))  
  .catch((error) => console.error("Error fetching data:", error));  
}, []);  
  
const cardVariants = {
```

PERFORMANCE TESTING:

