

DAY 5 - TESTING, ERROR HANDLING, AND BACKEND INTEGRATION REFINEMENT.

1. Core Features Tested..!

- Product Listing

Objective: Ensure all products are displayed with accurate details.

Test Code # ID	Test Case	Steps	Expected Outcome	Status
TC001	Display product list	Open the product listing page	All products appear with correct details	Pass
TC002	Pagination functionality	Navigate to the next page of products	Correct products load on the next page	fail
TC003	Image rendering	Verify product images load correctly	All images are displayed without distortion	Pass

- Filters

Test Code # ID	Test Case	Steps	Expected Outcome	Status
TC004	Category filter	Select a specific category filter	Only products within the selected category appear	Pass
TC005	Keyword search	Enter a keyword (e.g., "Chair")	Only products matching the keyword appear	Fail
TC006	Combined filter and search	Apply multiple filters and a keyword search	Results meet all applied conditions	Fail

- Cart Operations

Test Code # ID	Test Case	Steps	Expected Outcome	Status
TC007	Product detail page load	Click on a Shop from the listing page	Product detail page opens with correct details	Pass
TC008	URL validation	Verify URL format (e.g., /shop/product-name)	URL matches the product ID	Pass
TC009	Navigation back to list	Use browser back button	Returns to the product listing page	Pass

TC0010	Add / remove items from Cart	Click on the add or remove button to perform function	It will add or remove items from users cart	Pass
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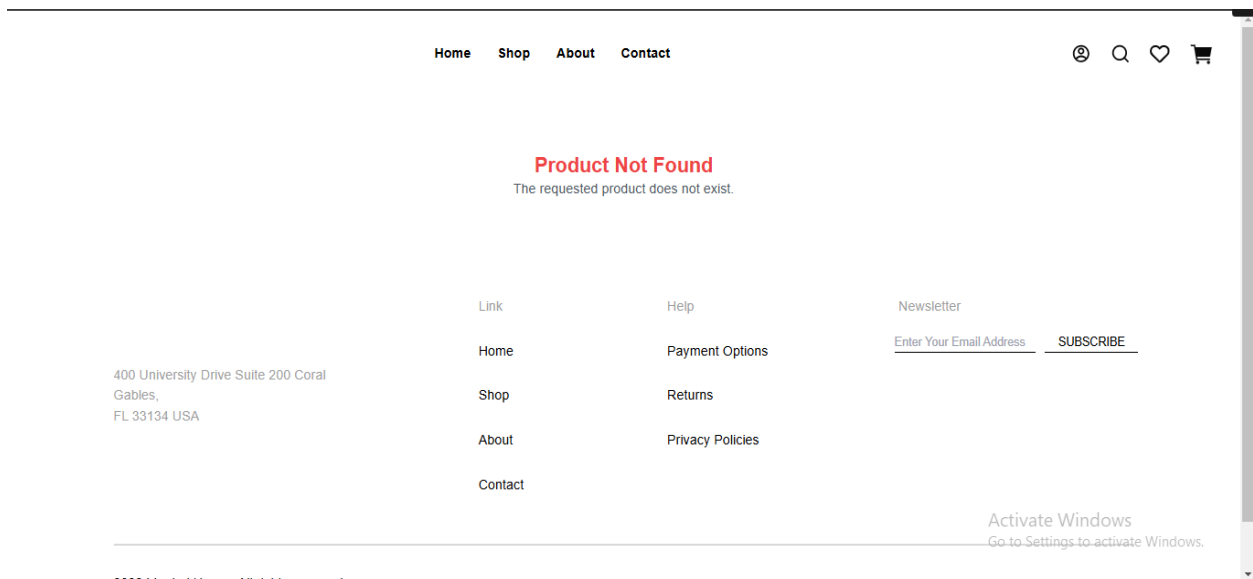
2. Error Handling:

- **Add Error Messages:**

Used the below code to handle API errors.

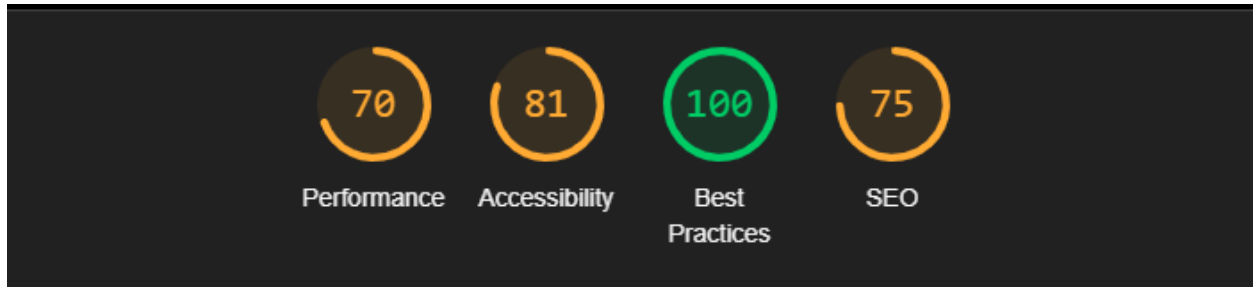
```
if (!productdata) {
  return (
    <div className="container mx-auto py-16 text-center">
      <h1 className="text-2xl font-bold text-red-500">Product Not Found</h1>
      <p className="text-gray-600">The requested product does not exist.</p>
    </div>
  );
};
```

- **Fallback UI:**



3. Analyze Performance:

Use Lighthouse to identify speed and performance issues.



4. Cross-Browser and Device Testing

The website was tested on the following browsers:

Test Code # ID	Test Case	Steps	Expected Outcome	Status
TC0011	View on Google Chrome	Open the chrome and see website	It shows responsive	Pass
TC0012	View on Microsoft Edge	Open the Microsoft Edge and see website	It shows responsive	Pass
TC0013	View on Mobile	Open the Mobile and see website	It shows responsive	Pass

My website is responsive for all devices.

5. User Acceptance Testing (UAT)

Simulate Real-World Usage:

Perform tasks like:

- Browsing products
- Adding / remove items to the cart
- Filter Section

Errors Detected:

- Search bar not working.
- Favorite Section not working.
- Pagination not working.

CSV format representation for your document

"Test Code # ID","Test Case","Steps","Expected Outcome","Status"

"TC001","Display product list","Open the product listing page","All products appear with correct details","Pass"

"TC002","Pagination functionality","Navigate to the next page of products","Correct products load on the next page","Fail"

"TC003","Image rendering","Verify product images load correctly","All images are displayed without distortion","Pass"

"TC004","Category filter","Select a specific category filter","Only products within the selected category appear","Pass"

"TC005","Keyword search","Enter a keyword (e.g., 'Chair')","Only products matching the keyword appear","Fail"

"TC006","Combined filter and search","Apply multiple filters and a keyword search","Results meet all applied conditions","Fail"

"TC007", "Product detail page load", "Click on a Shop from the listing page", "Product detail page opens with correct details", "Pass"

"TC008", "URL validation", "Verify URL format (e.g., /shop/product-name)", "URL matches the product ID", "Pass"

"TC009", "Navigation back to list", "Use browser back button", "Returns to the product listing page", "Pass"

"TC0010", "Add / remove items from Cart", "Click on the add or remove button to perform function", "It will add or remove items from users cart", "Pass"

"TC0011", "View on Google Chrome", "Open the chrome and see website", "It shows responsive", "Pass"

"TC0012", "View on Microsoft Edge", "Open the Microsoft Edge and see website", "It shows responsive", "Pass"

"TC0013", "View on Mobile", "Open the Mobile and see website", "It shows responsive", "Pass".