# DAY\_5: TESTING, ERROR HANDLING & BACKEND INTEGRATION REFINEMENT

### 1. Functional Testing

All the features like product listing, detailed page of a product and shopping-cart are working as expected. Already shown the screenshots in Day\_4 repo.

## 2. Error handling

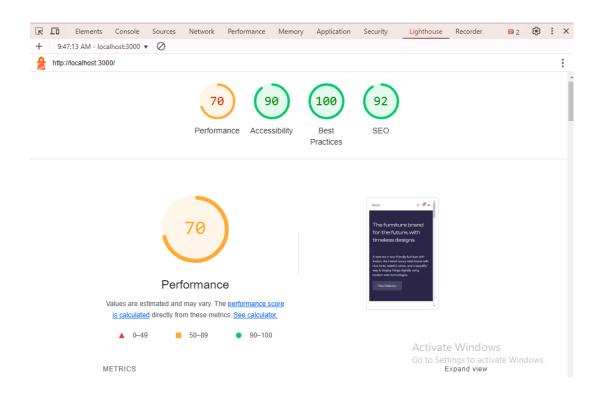
Gracefully handled error and add fallback that if API is not fetching the data so displayed "No products found" on UI.

```
// GROQ query to fetch products with the "new ceramics" tag
        *[_type == "product" && "new ceramics" in tags]{
         name,
          price,
          "image": image.asset->url,
          slug
     const data = await client.fetch(query);
     setProducts(data);
     setLoading(false);
   } catch (error) {
     console.error("Failed to fetch products:", error);
     setLoading(false);
  };
  fetchProducts();
}, []);
if (loading) {
 return Loading products...;
if (!loading && products.length === 0) {
 return No products found.;
```

## 3. Performance Optimization

1. Optimized Assets

#### 2. Analyze Performance



# 4 main causes which are effecting performance and have to be considered:

- i. JavaScript execution time
- ii. Eliminate render blocking resources
- iii. Reduce initial server response time
- iv. Page prevented back/forward cache restoration

#### 3. Test Load Time

### **Step\_4: Testing across multiple devices**

Successfully tested the components and responsiveness of website on different devices.

# **Step\_5: Security Testing**

#### **Secure API Communication:**

