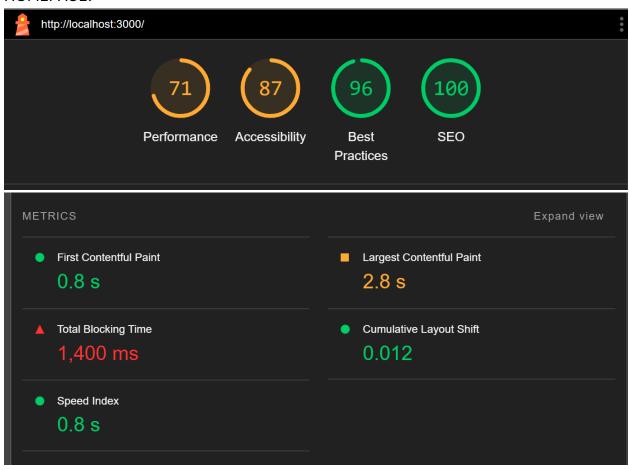
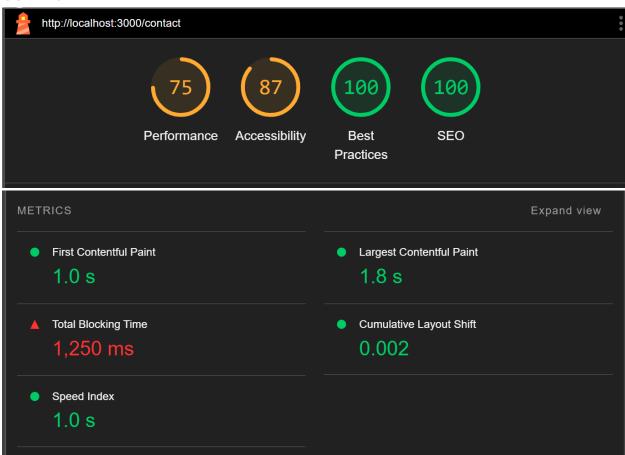
# **DAY 5 - HACKATHON**

#### **TESTING INDIVIDUAL PAGES NAVIGATION USING LIGHTHOUSE:**

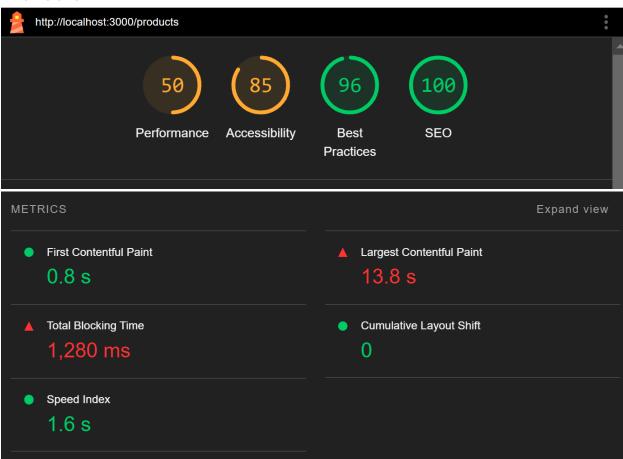
#### **HOMEPAGE:**



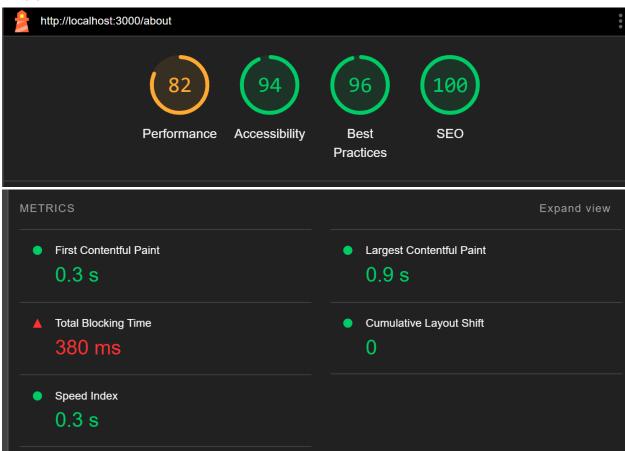
#### **CONTACT:**



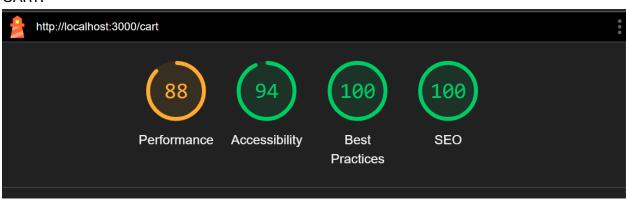
#### PRODUCTS:

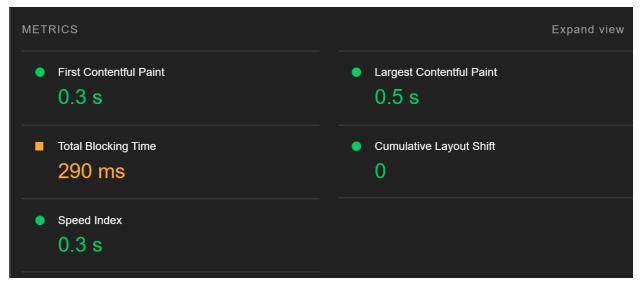


#### **ABOUT:**

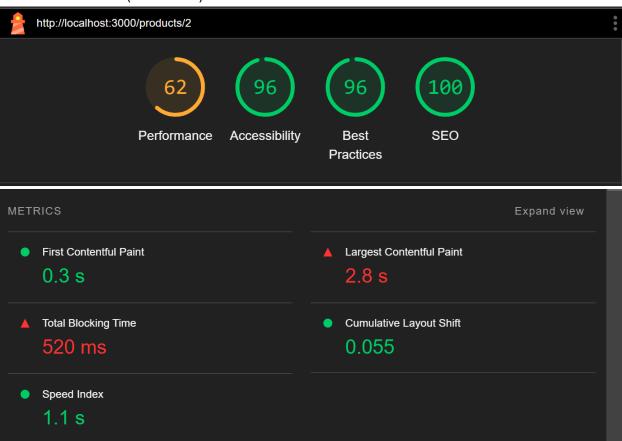


#### **CART:**



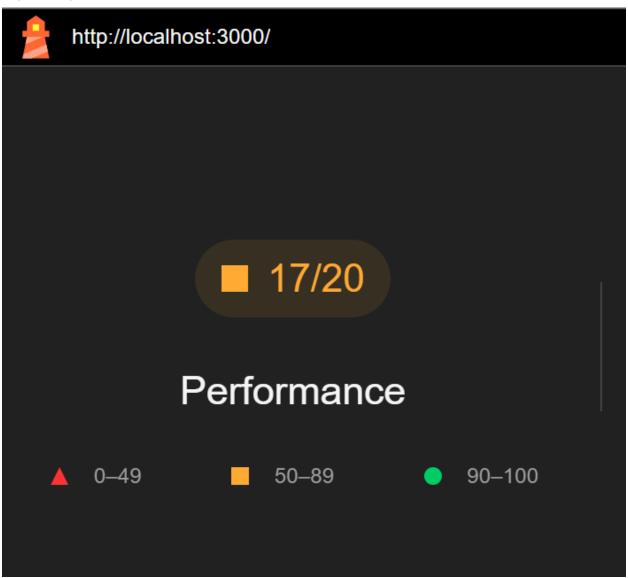


### PRODUCT DETAIL (DYNAMIC):

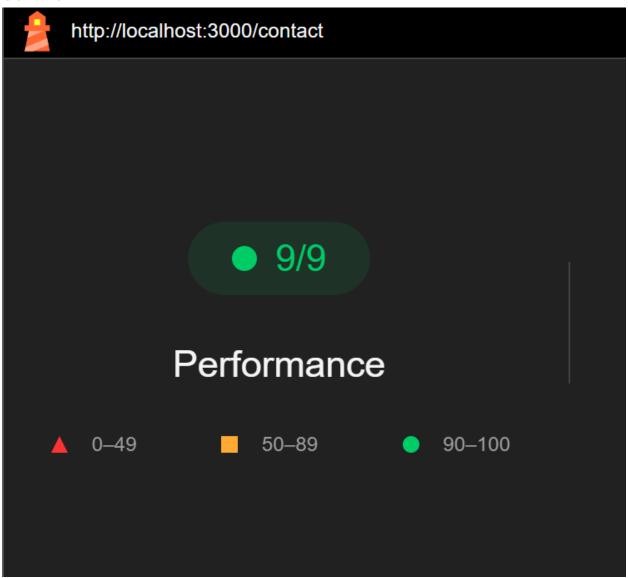


**TESTING INDIVIDUAL PAGES TIMESPAN USING LIGHTHOUSE:** 

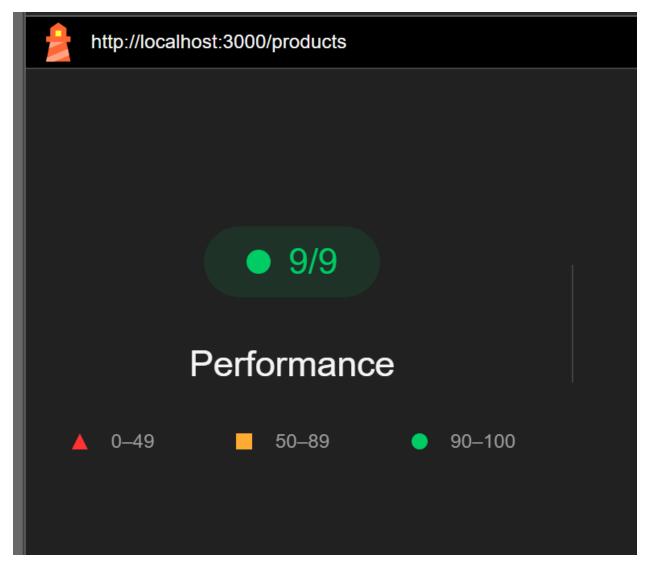
#### **HOMEPAGE**



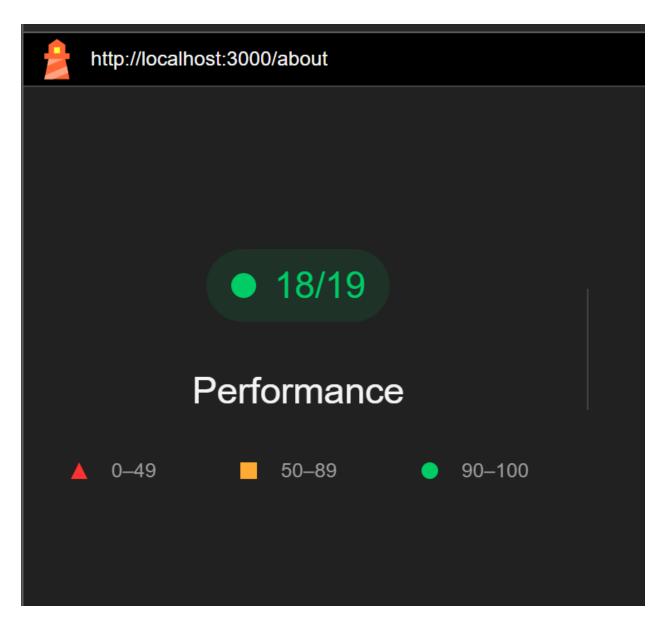
# CONTACT:



PRODUCT:

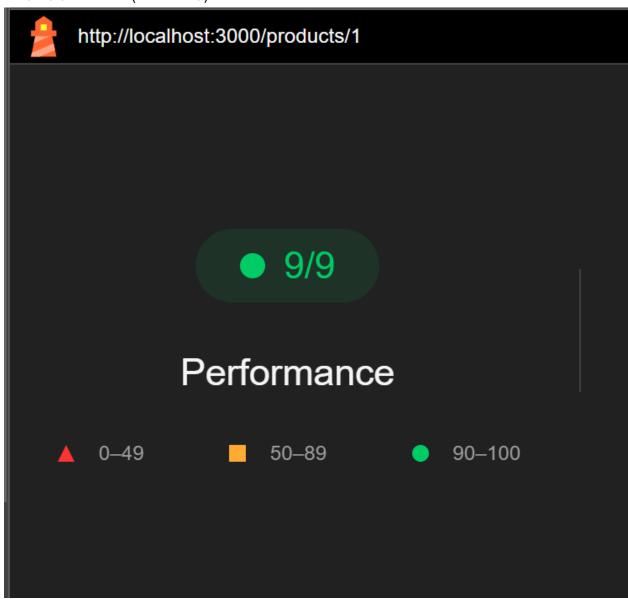


ABOUT:



**FUNCTIONAL AND RESPONSIVE COMPONENTS** 

# PRODUCT DETAIL (DYNAMIC):



# **Test Execution Summary**

I tested multiple pages of the website using Lighthouse to evaluate performance, SEO, accessibility, and best practices.

- Passed: About Page, Contact Page, Product Detail Page, Cart Page, Mobile Responsiveness, and Page Load Speed.
- Failed: Home Page and Products Page due to low performance scores and slow load times.

#### Performance Optimization Steps Taken:

- Reduced Image Sizes to improve loading speed.
- Minified CSS & JavaScript to remove unnecessary code.
- Enabled Browser Caching so pages load faster on repeat visits.
- Removed Unused Plugins to reduce page weight.

#### Security Measures Implemented:

- Input Validation added to prevent security attacks (like XSS & SQL Injection).
- HTTPS Enabled to secure data transfers.
- Updated Meta Tags to improve SEO and prevent fake content indexing.

#### Challenges Faced & Resolutions Applied:

- Slow Page Load (Home & Products Page): I found large images and unused scripts.
  Solution: Optimized images & removed extra scripts.
- Navigation Delay: Page switching was slow.
  Solution: Enabled caching & lazy loading for images.
- Form Security Risks: Some fields accepted harmful code.
  Solution: Added input validation & security checks.