

DAY 5 – Testing, Error Handling, And Backend Integration Refinement

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Focus of the Day

- This Document Clearly Outlines the objectives of Day 5 of hackathon. Emphasizing testing & performance optimization

Testing Overview

- Functional testing is addressed with specific test cases for product page, product details page, cart operations, website responsiveness on mobile and desktop screens, dynamic routing, search bar, Price Sorting & price filters like functionalities

Steps For Implementation

Functional testing: Validate core features like product page, product details page, cart operations , and dynamic routing using tools like React library testing

Performance Optimization: Optimize assets, analyze performance with lighthouse, and aim for fast load times using lazy loading and minimized CSS/Javascript

Cross-Browser Testing: Ensure consistent Functionality across all most used browsers like Chrome,Opera,Edge,Tor, & FireFox and devices like Iphone XS/11/15/16PM to make sure that pages are responsive on every medium of screens sizes which are commonly used.

User Acceptance Testing (UAT): Simulate Real-world usage scenarios, Gather Feedback, and address usability issues to enhance user experience.

1. Product Page (TC001):

No issues Found:

- Product listing: All Products are displayed Correctly.
- Results:

Sort By: Newest 



BBQ Chicken Pizza

\$12 ~~\$23~~



Berry Bliss Smoothie

\$22 ~~\$34~~



Loaded Cheeseburger

\$45 ~~\$56~~



Chicken Manchurian

\$67 ~~\$80~~



Classic Tiramisu

\$20 ~~\$23~~



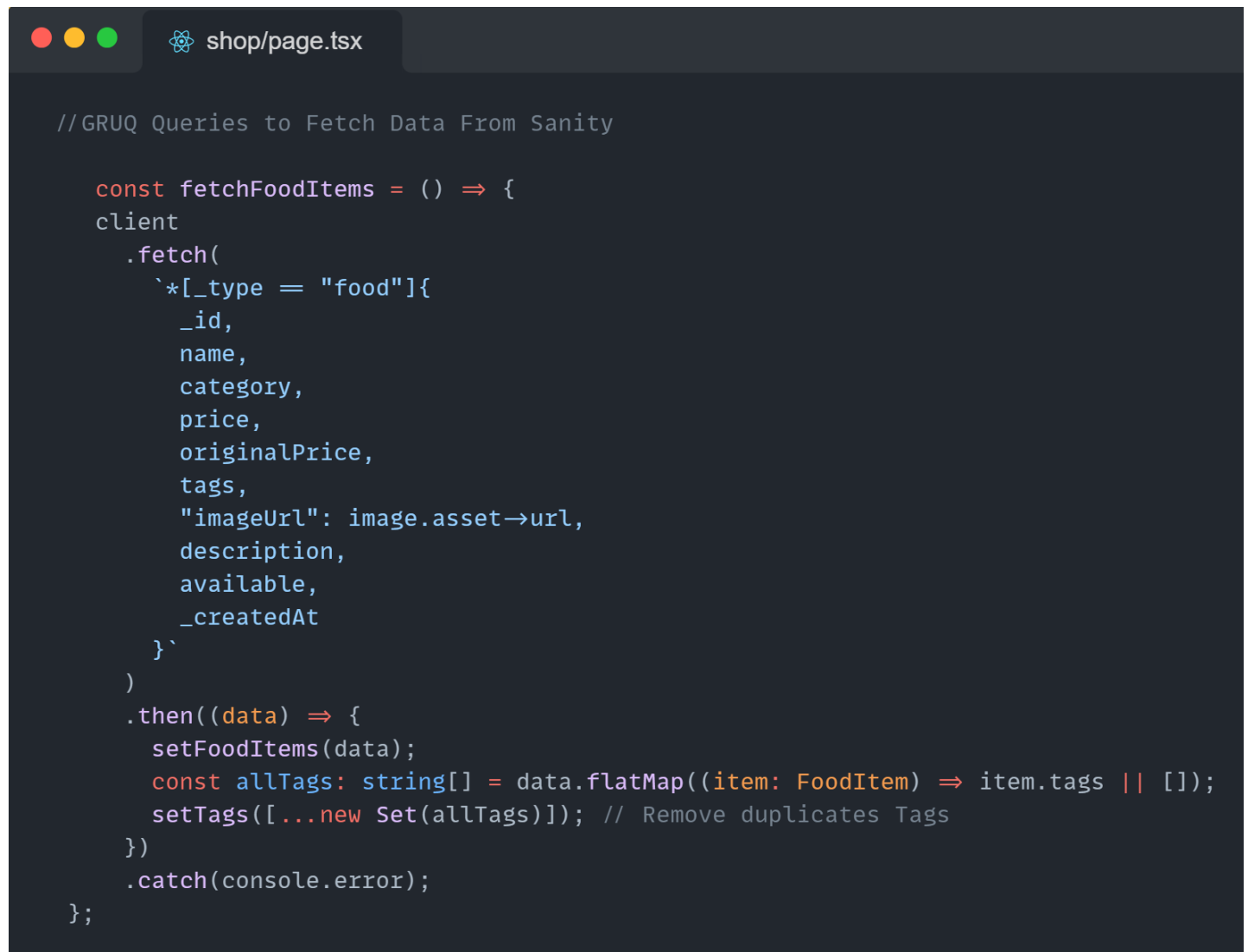
Chocolate Fudge Ice Cream

\$32 ~~\$34~~

2. GRUQ Queries (TC002):

No issues Found:

- Results:



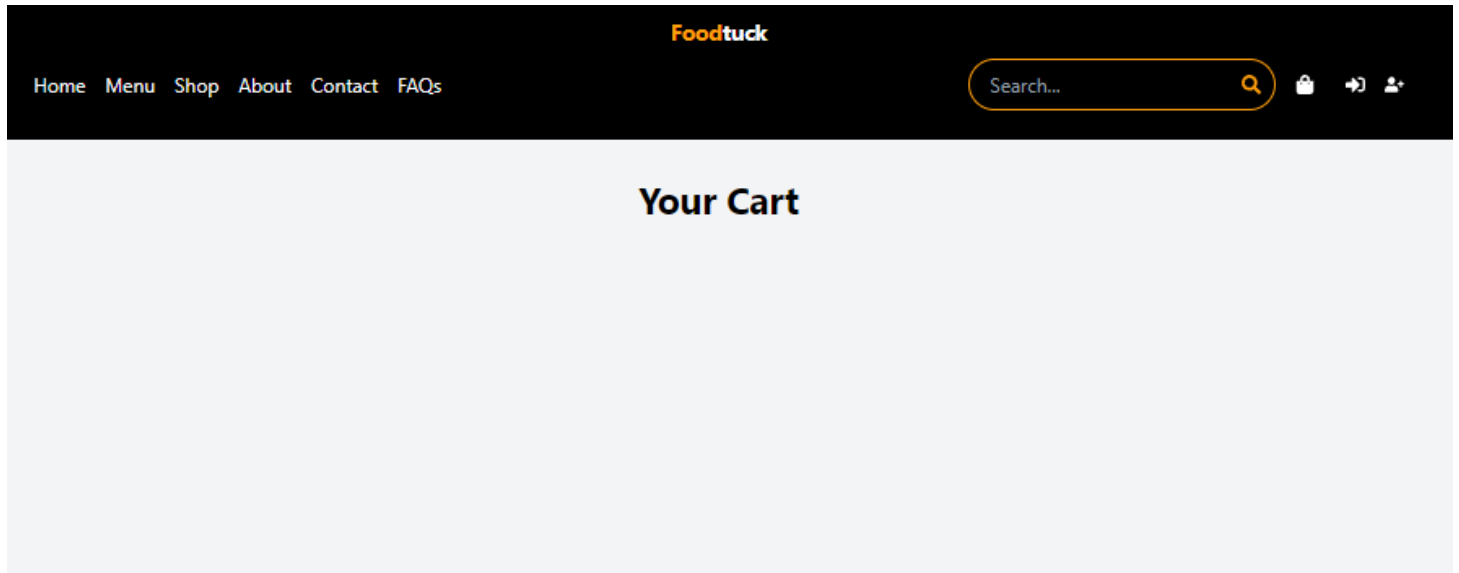
```
//GRUQ Queries to Fetch Data From Sanity

const fetchFoodItems = () => {
  client
    .fetch(
      `*[_type = "food"]{
        _id,
        name,
        category,
        price,
        originalPrice,
        tags,
        "imageUrl": image.asset->url,
        description,
        available,
        _createdAt
      }`
    )
    .then((data) => {
      setFoodItems(data);
      const allTags: string[] = data.flatMap((item: FoodItem) => item.tags || []);
      setTags([...new Set(allTags)]); // Remove duplicates Tags
    })
    .catch(console.error);
};
```

3. Cart Operations (TC003):

Issues Found: Cart Functionalities are not working as expected, the data is not showing up in the cart due to lack of understanding related to React-redux Toolkit, will update the cart later on.

- **Results:**



4. Device Responsiveness (TC004):

No Issues: All Components renders correctly across various devices including mobile and tablets

Devices Tested: iPhone Xs/11/15/16PM

Browser Tested: Chrome/Tor/Firefox/Edge/Opera

- **Results:**



Out of Stock

Prev Next

Vanilla Ice Cream

A creamy and aromatic treat made with real vanilla beans for a classic dessert experience.

\$20 ~~\$25~~

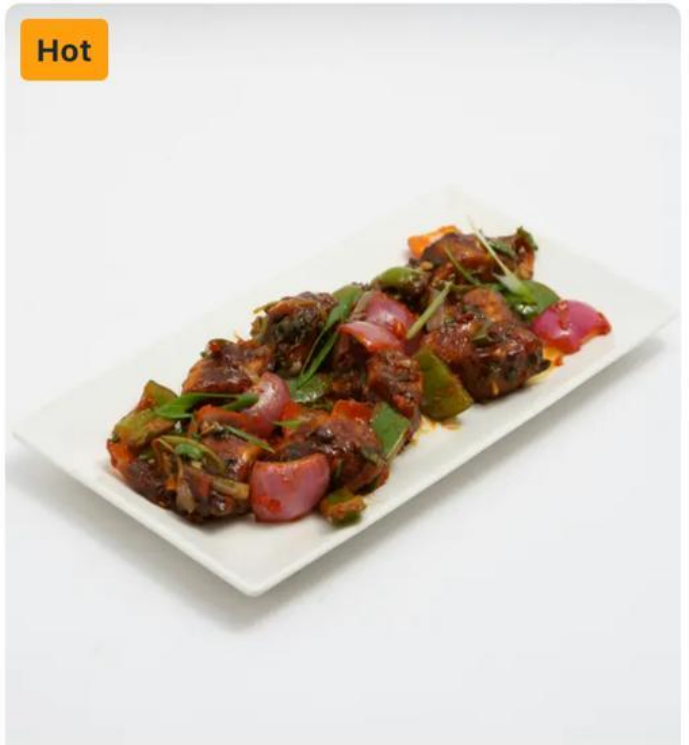
★★★★★ 5.0 Rating | 22 Review

Add to cart

-dynamic-frontend-components-food-tuck.vercel.app



Sort By: Price: High to Low ↕

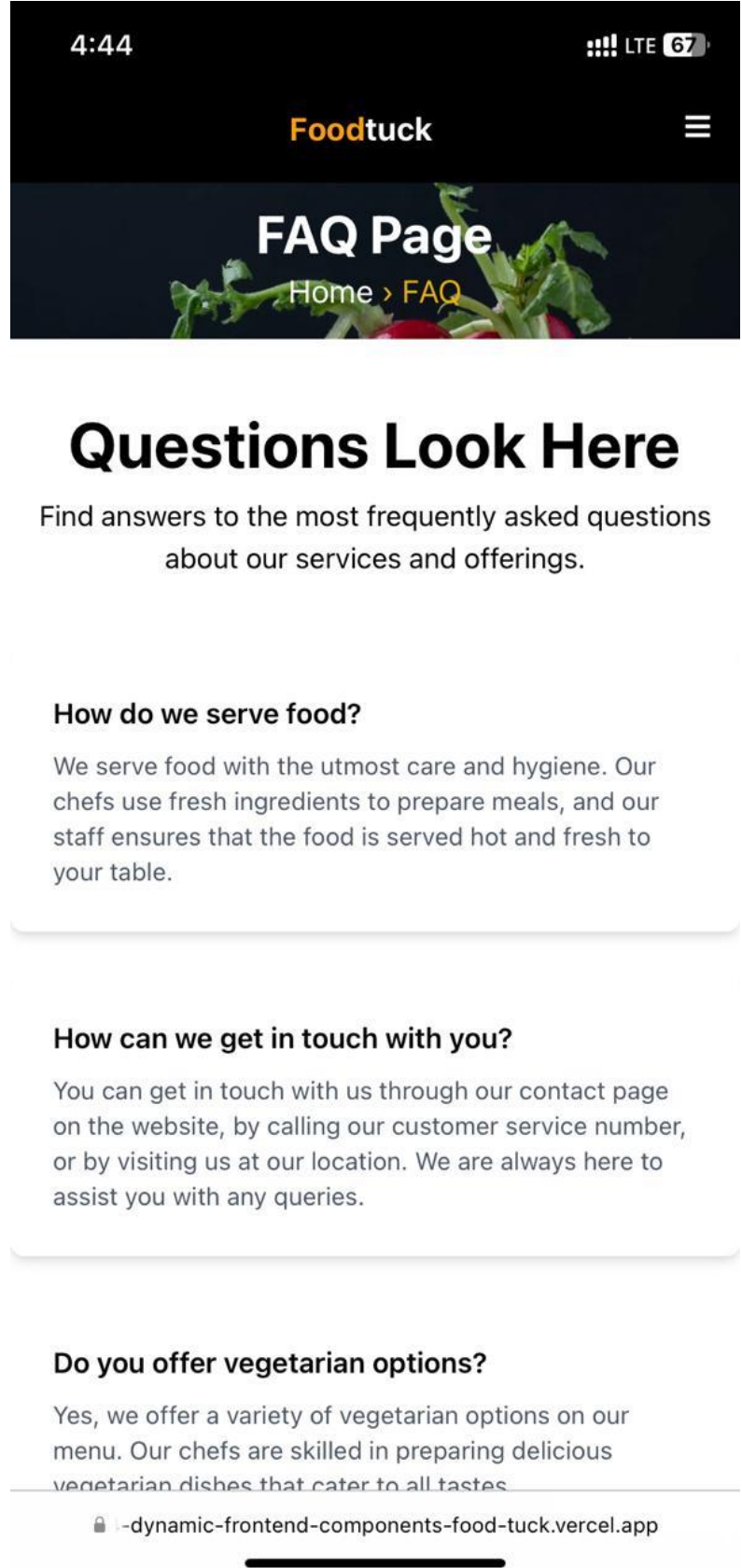
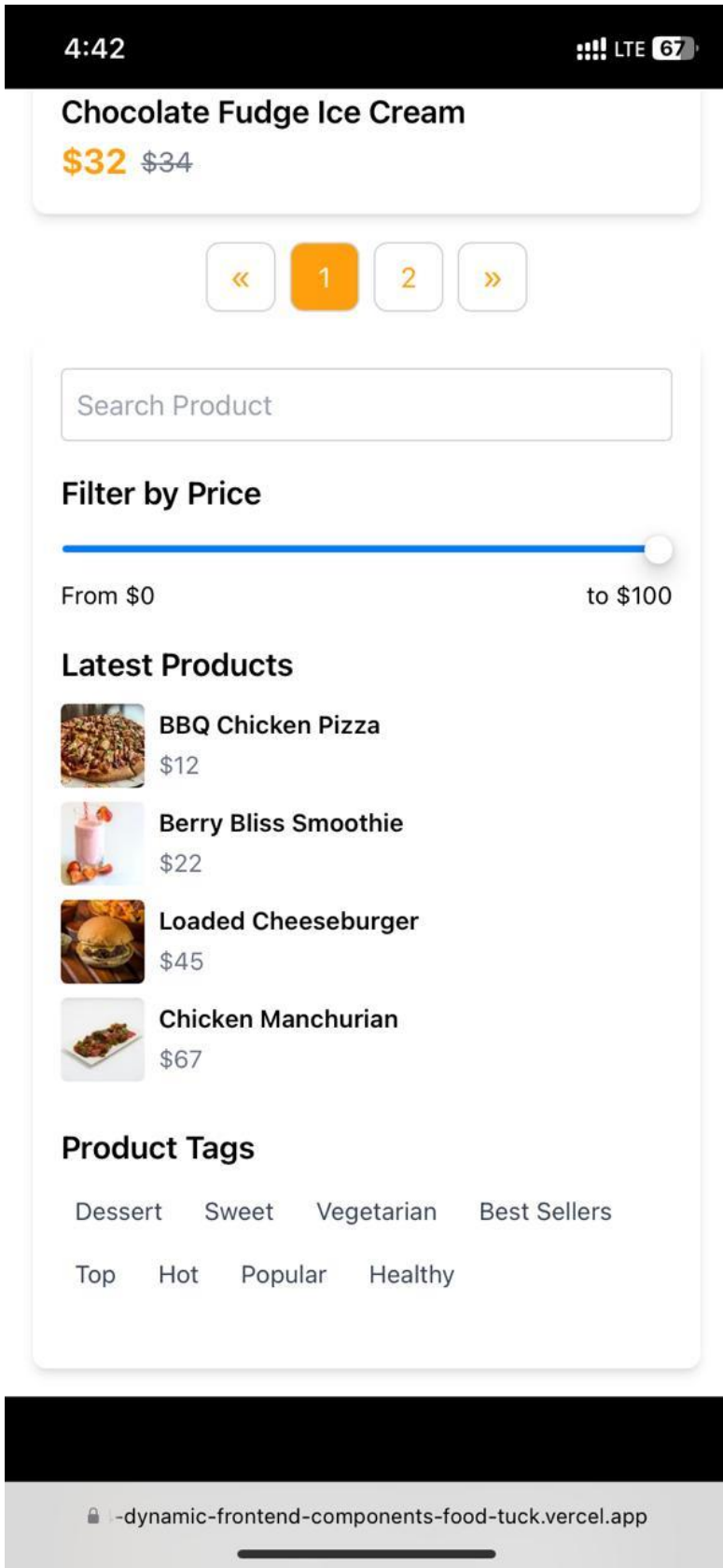


Chicken Manchurian

\$67 ~~\$80~~

Best Sellers

-dynamic-frontend-components-food-tuck.vercel.app



5. Dynamic Routing (TC005):

No Issues: Dynamic routes are loading as expected with no errors or missing parameters

- Result:



In Stock

PrevNext

Loaded Cheeseburger

A juicy beef patty loaded with melted cheese, fresh veggies, and tangy sauce in a soft bun.

\$45

\$56

★★★★★

5.0 Rating | 22 Review

Add to cart

♥

Add to Wishlist

Category: Fast Food

Tag: Popular

fb

tw

ig

pn

Description


Satisfy your cravings with our Loaded Cheeseburger, the ultimate fast-food favorite packed with flavor and freshness. This mouthwatering burger features a juicy, perfectly seasoned beef patty topped with melted cheddar cheese, crisp lettuce, ripe tomatoes, and tangy pickles. All of this deliciousness is nestled in a soft sesame seed bun and drizzled with a savory burger sauce. Perfect for a quick lunch, dinner, or a snack on the go, this cheeseburger is guaranteed to hit the spot every time.

Ingredients:

- Juicy beef patty
- Melted cheddar cheese
- Fresh lettuce, tomatoes, and pickles
- Soft sesame seed bun
- Drizzle of savory burger sauce

Similar Products

Best Sellers



Classic Burger

\$50

\$60

6 . Filter and Search (TC006):

No Issues: Filters returned correct, with expected results due to proper query handling

- **Result:**

Sort By: Price: Low to High ▾



Special Falooda
\$12 \$20



BBQ Chicken Pizza
\$12 \$23



Classic Tiramisu
\$20 \$23



Vanilla Ice Cream



Berry Bliss Smoothie







Chocolate Ice Cream

Filter by Price

From \$0 to \$25

Latest Products

-  BBQ Chicken Pizza \$12
-  Berry Bliss Smoothie \$22
-  Loaded Cheeseburger \$45
-  Chicken Manchurian \$67

Product Tags

Dessert

Sweet

Vegetarian

Best Sellers

Top

Hot

Popular

Healthy

Cross Browser Compatibility:

- **No Issues:** Consistent functionality and design across Chrome, Edge and other tested browsers.

7. Performance Highlights (Lighthouse):

Product Details Performance:

Mobile Desktop

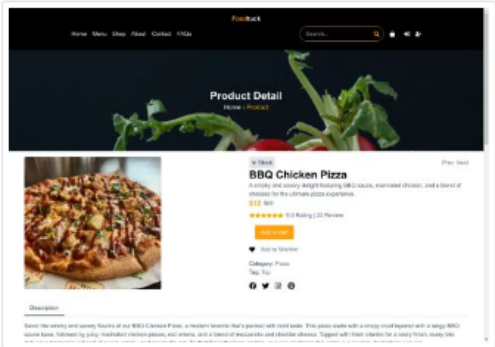
Diagnose performance issues



Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. [See calculator.](#)

▲ 0–49 ■ 50–89 ● 90–100



METRICS

Expand view

- First Contentful Paint
0.2 s
- Total Blocking Time
0 ms
- Speed Index
0.5 s

- Largest Contentful Paint
0.7 s
- ▲ Cumulative Layout Shift
0.684

Captured at Jan 21, 2025, 4:26 PM GMT+5

Emulated Desktop with Lighthouse 12.2.3

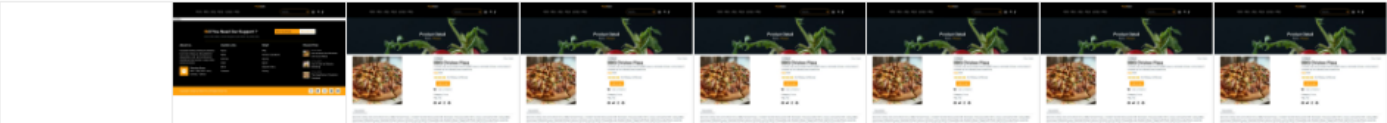
Single page session

Initial page load

Custom throttling

Using HeadlessChromium 131.0.6778.264 with Ir

View Treemap



Show audits relevant to: [All](#) [FCP](#) [LCP](#) [TBT](#) [CLS](#)

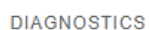
DIAGNOSTICS

Product Page Performance:

 Desktop

100

SEO



7. Performance Highlights (Lighthouse):

Home Page Performance:

Mobile

Desktop

Diagnose performance issues

100

Performance

90

Accessibility

100

Best Practices

91

SEO

100

Performance

Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator.

▲ 0–49

■ 50–89

● 90–100

The Art of Speed

Food Quality

Home

Menu

Shop

About

Contact

FAQs

Feedback

Search

As quick as a blink

The Art of Speed

Food Quality

0

1

2

3

4

5

Welcome to our restaurant. We offer a variety of delicious dishes made with fresh ingredients. Experience the best culinary delights and enjoy a memorable dining experience.

View Menu

METRICS

Expand view

● First Contentful Paint

0.3 s

● Total Blocking Time

0 ms

● Speed Index

0.6 s

● Largest Contentful Paint

0.6 s

● Cumulative Layout Shift

0.01

📅 Captured at Jan 21, 2025, 4:14 PM GMT+5

🕒 Initial page load

🖥️ Emulated Desktop with Lighthouse 12.2.3

🔌 Custom throttling

🔗 Single page session

🏠 Using HeadlessChromium 131.0.6778.264 with Ir

🗺️ View Treemap

DIAGNOSTICS

Show audits relevant to:

All FCP LCP TBT CLS

Test Case Report

TESTCASE ID	TESTCASE DESCRIPTION	TEST STEPS	EXPECTED RESULTS	ACTUAL RESULT	STATUS	SECURITY LEVEL	ASSIGNED TO	REMARKS
TC001	Validate Product Listing Page	Opens Product Page	Products displayed correctly	Products displayed correctly	Passed	High	N/A	Perfectly working
TC002	Test Queries Fetch	Data Fetching Properly	Data Fetched Correctly	Data Fetched Correctly	Passed	Medium	N/A	Fetches properly
TC003	Checking Cart Functionality	Add product to cart	Cart updates with added product	Cart doesn't show added products	Failed	Low	N/A	Not working
TC004	Ensure Responsiveness on Website	Resize browser window>Check Layout	Layout Adjust Properly with screen size	Layout Adjust Properly with screen size	Passed	High	N/A	works on all devices
TC005	Verified Dynamic Routing	Product>product detail page	Shows every product dynamic with all information	Shows every product dynamic with all information	Passed	Medium	N/A	works as expected
TC006	Verified Dynamic Routing	Apply Filters/perform search and sort query	Filter Products according to price and sorting	Filter Products according to price and sorting	Passed	Medium	N/A	work as expected

