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

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Step # 1: Functional Testing

Objective:

We have tested all website functionalities to ensure they work as expected.

➢ Test Core Features

Test Case: TC001

- **Task Name: Verify Home Page Functionality**
- **Feedback & Result:** Verified that **Home Page functionality** is working fine and displayed correctly as expected.
- **Status:** Passed
- **Security:** Low
- **Remarks:** No Issue were found during the test.

Test Case: TC002

- **Task Name: Product Listing Functionality**
- **Feedback & Result:** Verified that **Product Listing Functionality** is working fine and displayed correctly as expected.
- **Status:** Passed
- **Security:** Medium
- **Remarks:** No Issue were found during the test.

Test Case: TC003

- **Task Name: Filter and Search Functionality**
- **Feedback & Result:** Verified that **Filter and Search Functionality** is working fine and displayed correctly as expected.
- **Status:** Passed
- **Security:** Low
- **Remarks:** Work as expected

Test Case: TC004

- **Task Name: Cart Operations Functionality**
- **Feedback & Result:** Verified that **Cart Operations** '**Add**', '**Update**' and '**Delete'** functionality are working fine.
- **Status:** Passed
- **Security:** Low
- **Remarks:** Work as expected

Test Case: TC005

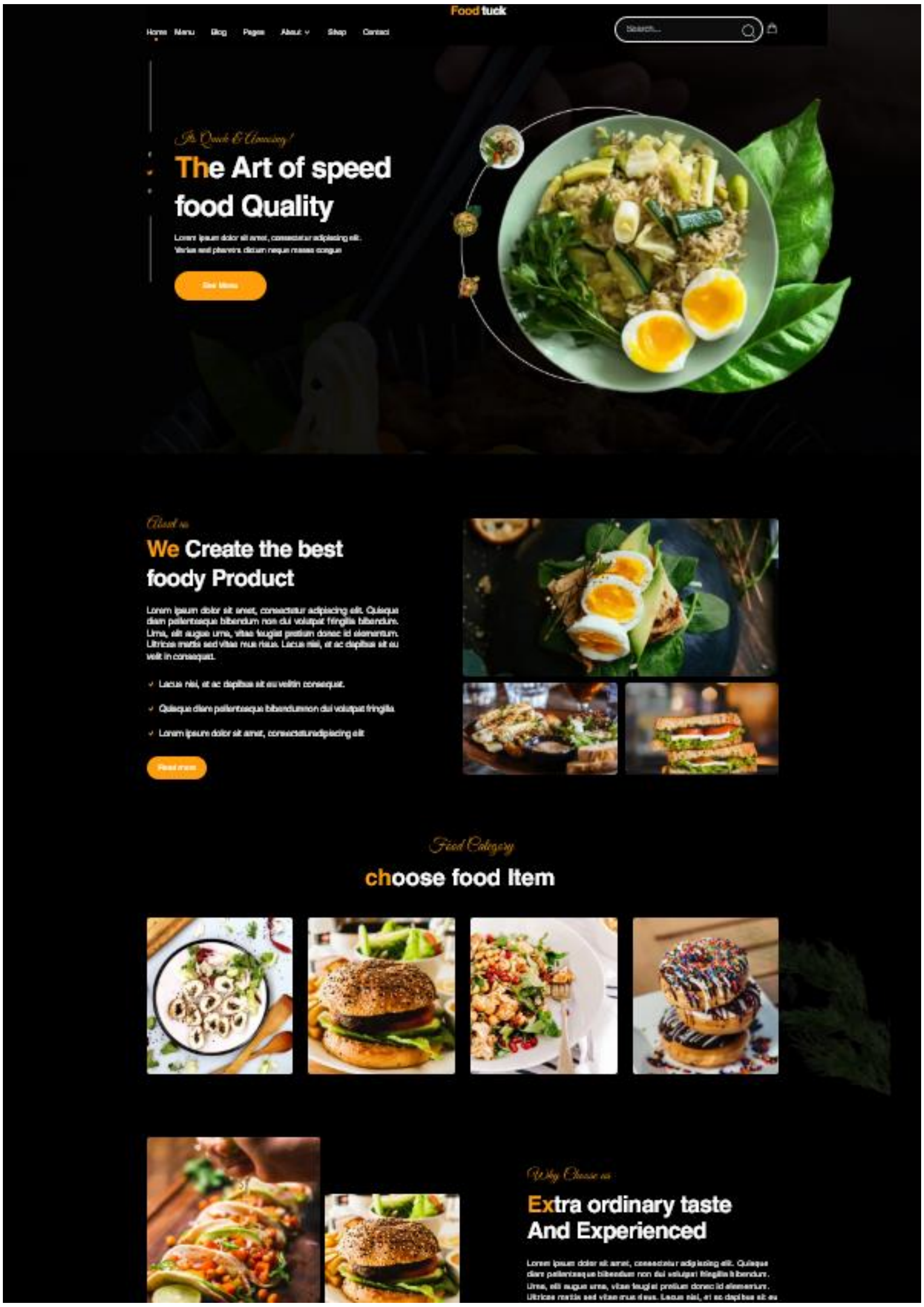
- **Task Name: Dynamic Routing Functionality**
- **Feedback & Result:** Verified that **Dynamic Routing Functionality** is working fine.
- **Status:** Passed
- **Security:** Low
- **Remarks:** No Issue were found during the test.

Test Case: TC006

- **Task Name: Comment Section Functionality**
- **Feedback & Result:** Verified that **Comment Section Functionality** is working fine.
- **Status:** Passed
- **Security:** Medium
- **Remarks:** Successful Test

Below are the screenshots of all performed tasks.

a. **Main Page:**



Its Quick & Amazing!

The Art of speed food Quality

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Varius sed pharetra dictum neque massa congue

About us

We Create the best foody Product

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque diam pellentesque bibendum non dui volutpat fringilla bibendum. Urna, elit augue urna, vitae feugiat pretium donec id elementum. Ultrices mattis sed vitae mus risus. Lacus nisi, et ac dapibus sit eu velit in consequat.

- ✓ Lacus nisi, et ac dapibus sit eu velitin consequat.
- ✓ Quisque diam pellentesque bibendumnon dui volutpat fringilla.
- ✓ Lorem ipsum dolor sit amet, consectetunadipiscing elit

Food Category

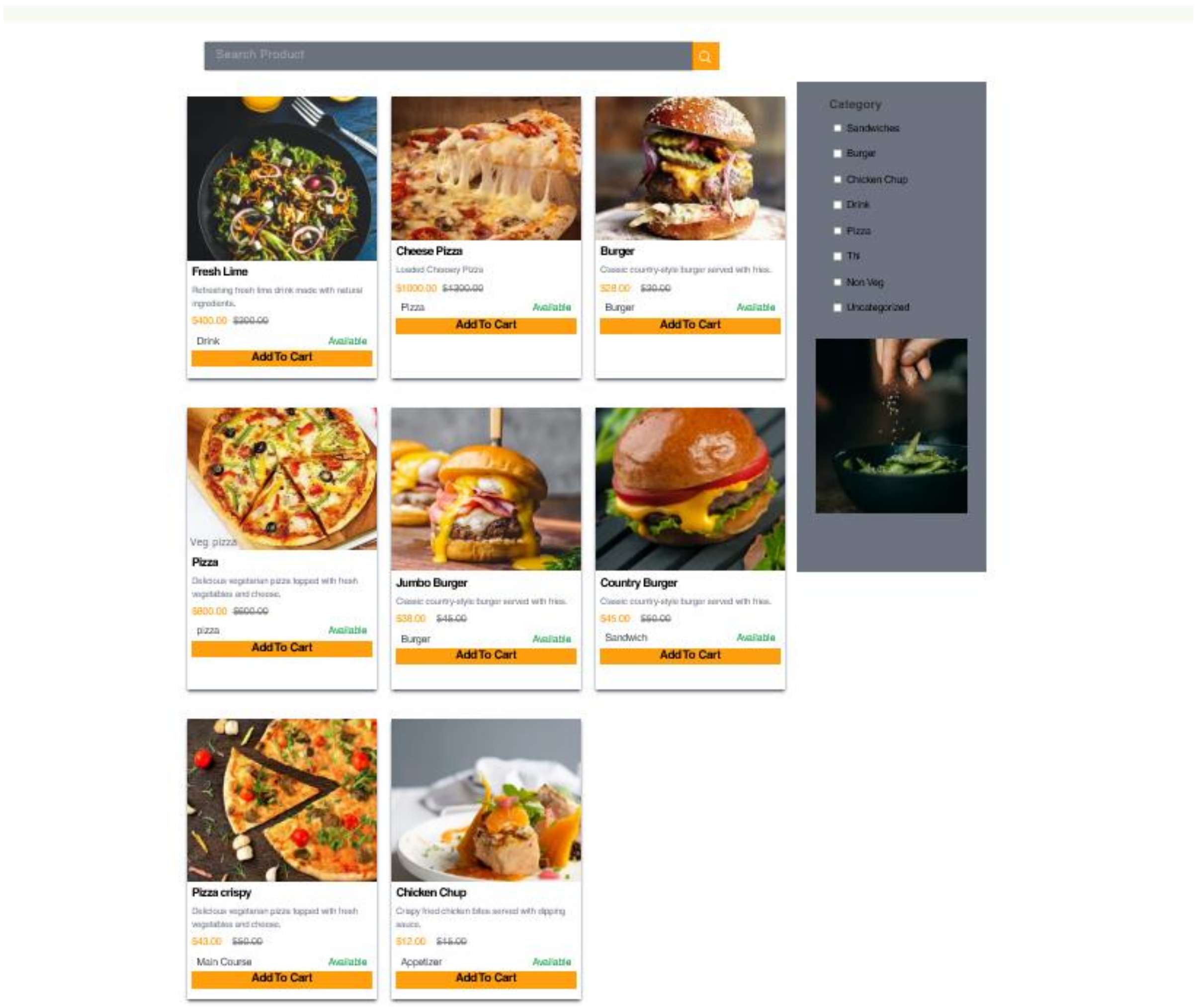
choose food Item

Why Choose us

Extra ordinary taste And Experienced

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque diam pellentesque bibendum non dui volutpat fringilla bibendum. Urna, elit augue urna, vitae feugiat pretium donec id elementum. Ultrices mattis sed vitae mus risus. Lacus nisi, et ac dapibus sit eu

b. Product Listing:



Search Product

Fresh Lime
Refreshing fresh lime drink made with natural ingredients.
$400.00 ~~$300.00~~
Drink Available
Add To Cart

Cheese Pizza
Loaded Cheesey Pizza
$1000.00 ~~$1300.00~~
Pizza Available
Add To Cart

Burger
Classic country-style burger served with fries.
$28.00 ~~$30.00~~
Burger Available
Add To Cart

Veg pizza
Pizza
Delicious vegetarian pizza topped with fresh vegetables and cheese.
$800.00 ~~$600.00~~
pizza Available
Add To Cart

Jumbo Burger
Classic country-style burger served with fries.
$38.00 ~~$45.00~~
Burger Available
Add To Cart

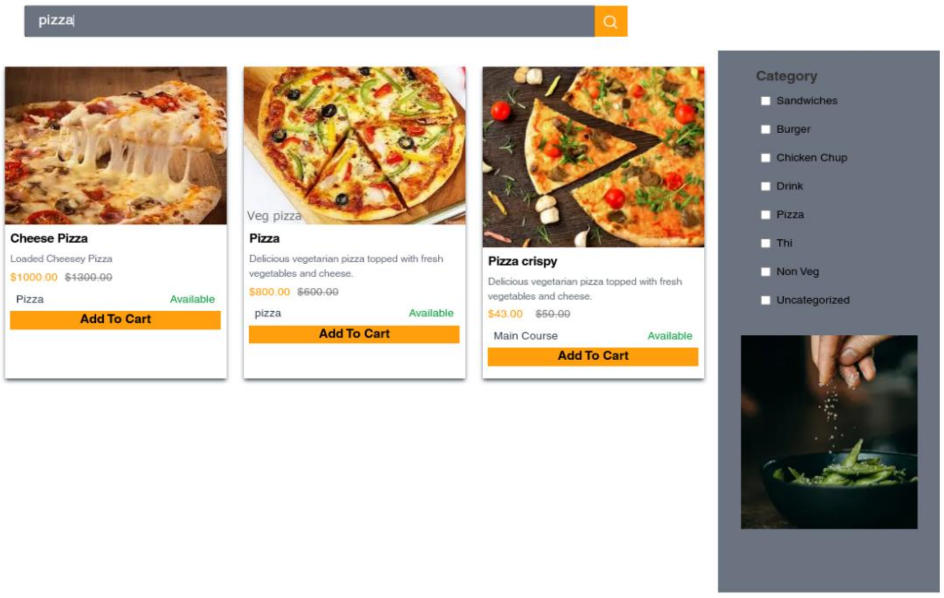
Country Burger
Classic country-style burger served with fries.
$45.00 ~~$60.00~~
Sandwich Available
Add To Cart

Pizza crispy
Delicious vegetarian pizza topped with fresh vegetables and cheese.
$43.00 ~~$50.00~~
Main Course Available
Add To Cart

Chicken Chup
Crispy fried chicken bites served with dipping sauce.
$12.00 ~~$15.00~~
Appetizer Available
Add To Cart

Category
- ☐ Sandwiches
- ☐ Burger
- ☐ Chicken Chup
- ☐ Drink
- ☐ Pizza
- ☐ Thi
- ☐ Non Veg
- ☐ Uncategorized

c. **Filters and search:**


pizza

Cheese Pizza
Loaded Cheesey Pizza
$1000.00 ~~$1300.00~~
Pizza Available
Add To Cart

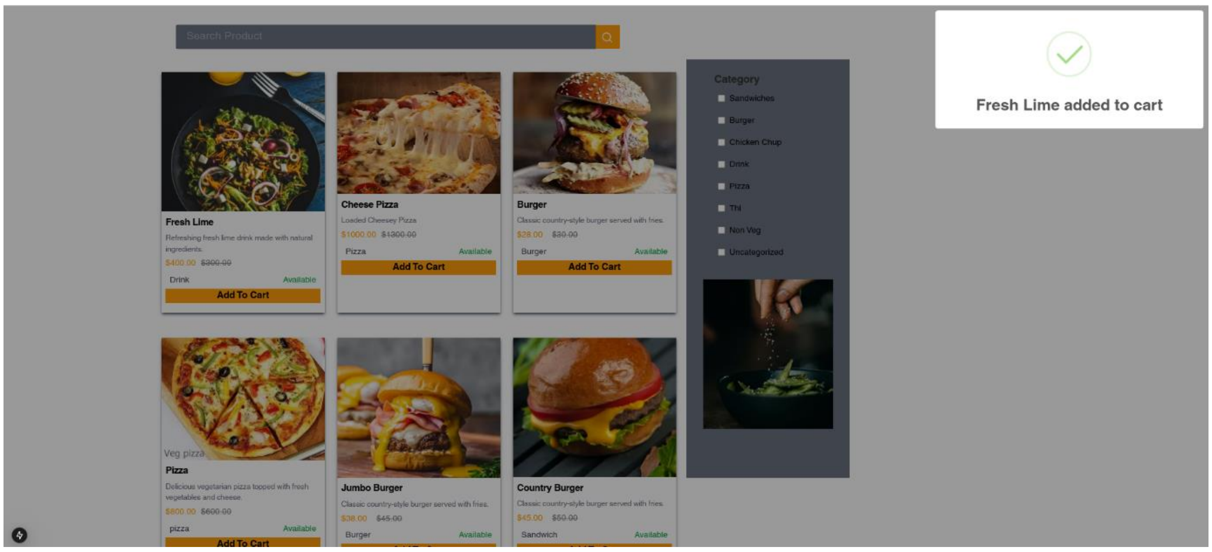
Veg pizza
Pizza
Delicious vegetarian pizza topped with fresh vegetables and cheese.
$800.00 ~~$600.00~~
pizza Available
Add To Cart

Pizza crispy
Delicious vegetarian pizza topped with fresh vegetables and cheese.
$43.00 ~~$50.00~~
Main Course Available
Add To Cart

Category
- Sandwiches
- Burger
- Chicken Chup
- Drink
- Pizza
- Thi
- Non Veg
- Uncategorized

d. **Cart Operations:**

i. **Add to Cart Functionality:** Below screenshot is showing how to we added products in the Cart.


Fresh Lime added to cart

Search Product

Fresh Lime
Refreshing fresh lime drink made with natural ingredients.
$400.00 ~~$300.00~~
Drink Available
Add To Cart

Cheese Pizza
Loaded Cheesey Pizza
$1000.00 ~~$1300.00~~
Pizza Available
Add To Cart

Burger
Classic country-style burger served with fries.
$28.00 ~~$30.00~~
Burger Available
Add To Cart

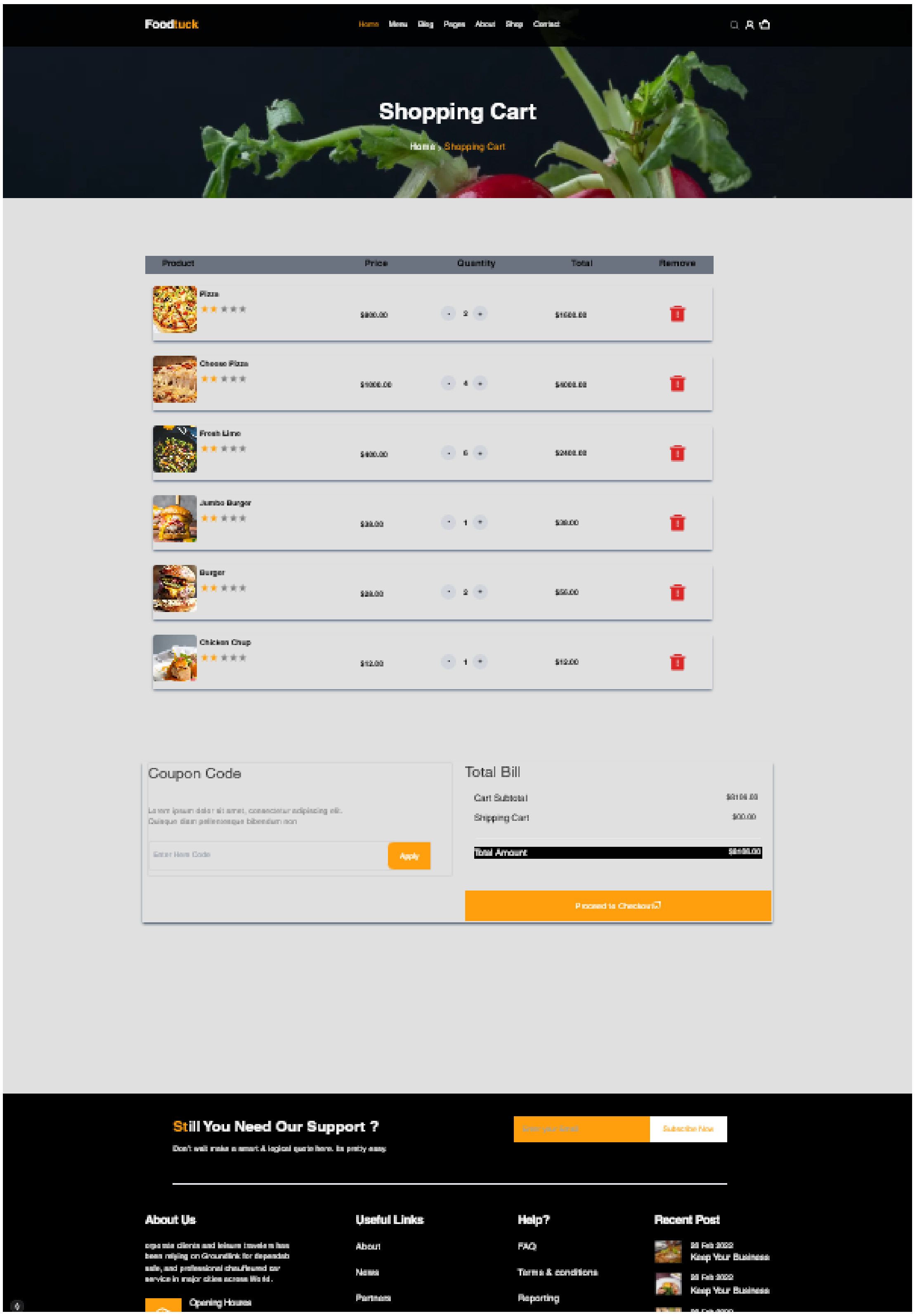
Veg pizza
Pizza
Delicious vegetarian pizza topped with fresh vegetables and cheese.
$800.00 ~~$600.00~~
pizza Available
Add To Cart

Jumbo Burger
Classic country-style burger served with fries.
$38.00 ~~$45.00~~
Burger Available

Country Burger
Classic country-style burger served with fries.
$45.00 ~~$50.00~~
Sandwich Available

Category
- Sandwiches
- Burger
- Chicken Chup
- Drink
- Pizza
- Thi
- Non Veg
- Uncategorized

ii. **Shopping Cart:** Below screenshot is showing the added products list in the Cart.



Product	Price	Quantity	Total	Remove
Pizza	$800.00	2	$1600.00	
Cheese Pizza	$1000.00	4	$4000.00	
Fresh Lime	$400.00	6	$2400.00	
Jumbo Burger	$30.00	1	$30.00	
Burger	$25.00	2	$50.00	
Chicken Chup	$12.00	1	$12.00	

Coupon Code

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque diam pellentesque bibendum non

Total Bill

Cart Subtotal	$8106.00
Shipping Cart	$00.00
Total Amount	$8106.00

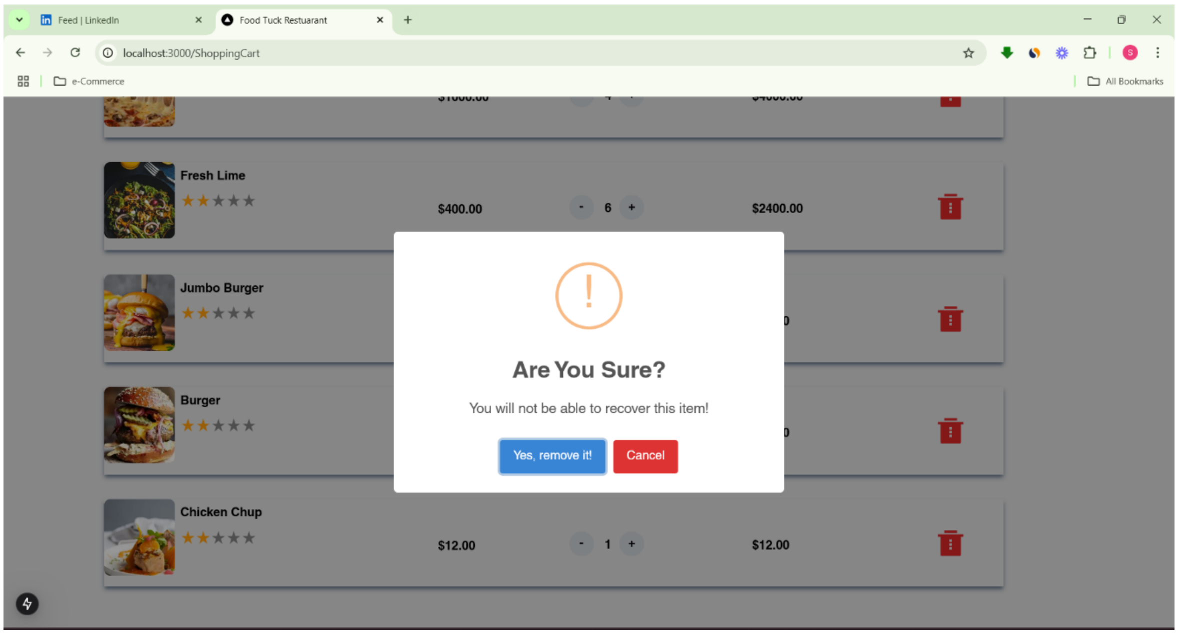
Still You Need Our Support ?

Don't wait make a smart & logical quote here. Its pretty easy.

About Us

[illegible] clients and leisure travelers has been relying on Groundlink for dependable safe, and professional chauffeured car service in major cities across World.

iii. **To delete Items from the Cart:** Below screenshot is showing the added products list in the Cart.

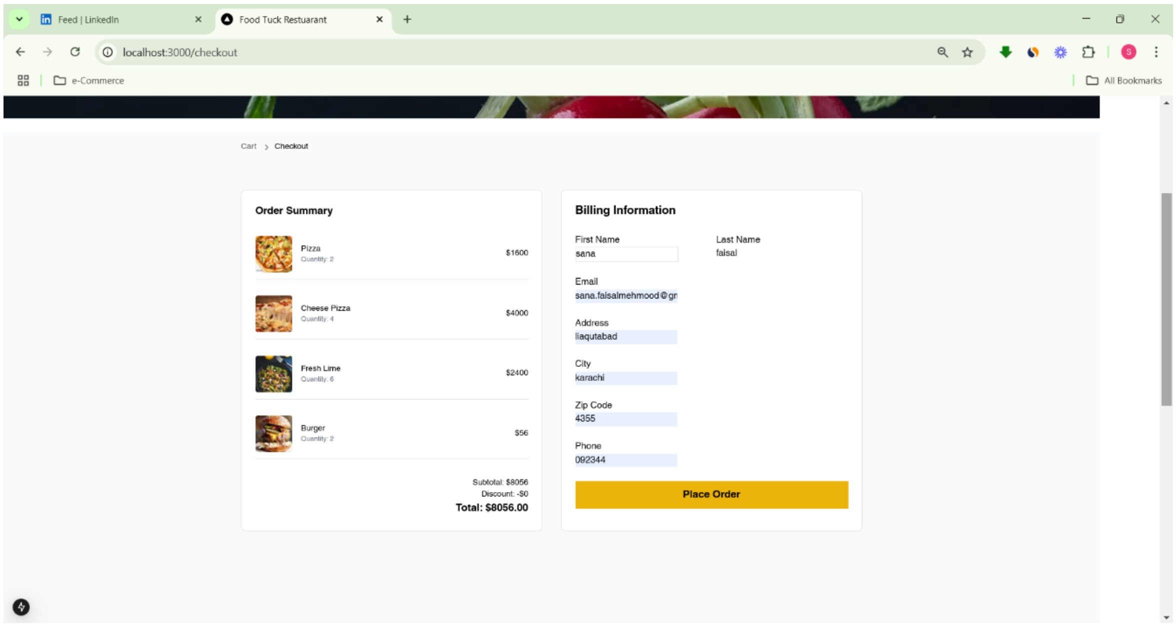

localhost:3000/ShoppingCart

Fresh Lime ★★★★★	$400.00	- 6 +	$2400.00	
Jumbo Burger ★★★★★				
Burger ★★★★★				
Chicken Chup ★★★★★	$12.00	- 1 +	$12.00	

Are You Sure?

You will not be able to recover this item!

iv. **Checkout Page:** Below screenshot is showing the how to we checkout added items in the cart for confirmation of order execution.


localhost:3000/checkout

Cart > Checkout

Order Summary

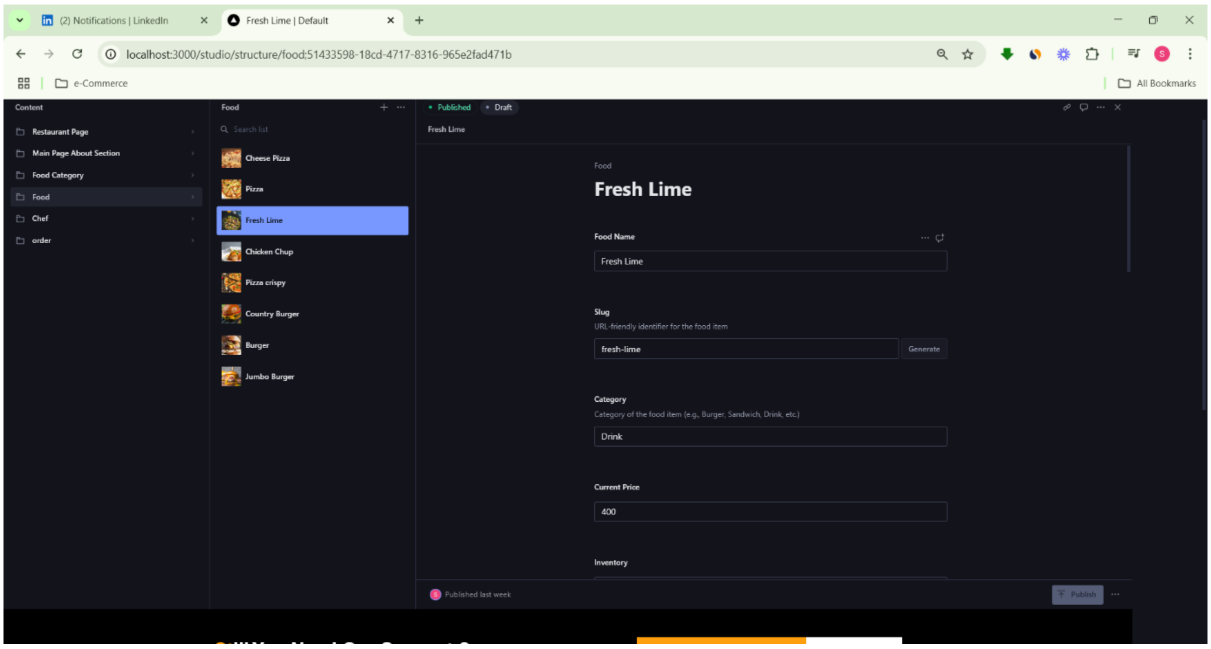
Pizza	Quantity: 2	$1600
Cheese Pizza	Quantity: 4	$4000
Fresh Lime	Quantity: 6	$2400
Burger	Quantity: 2	$56

Subtotal: $8056
Discount: -$0
Total: $8056.00

Billing Information

First Name: sana
Last Name: faisal
Email: sana.faisalmehmood@gr
Address: liaqutabad
City: karachi
Zip Code: 4355
Phone: 092344

v. **Checkout Data Integrated to Sanity:** Below screenshot is showing the how to data stored into Sanity from checkout page.



Food

Fresh Lime

Food Name

Fresh Lime

Slug

URL-friendly identifier for the food item

fresh-lime

Category

Category of the food item (e.g., Burger, Sandwich, Drink, etc.)

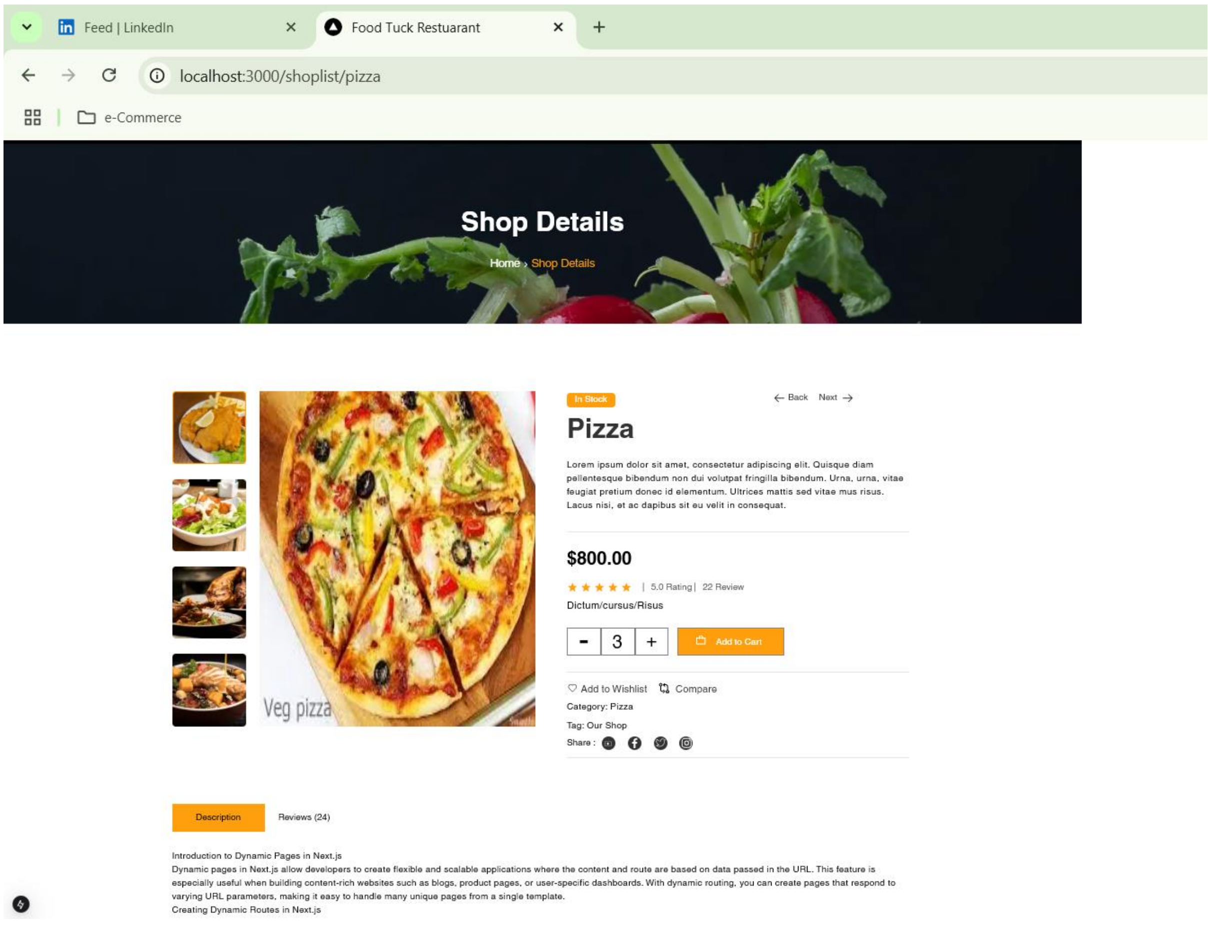
Drink

Current Price

400

Inventory

e. **Dynamic routing:**



Pizza

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Quisque diam pellentesque bibendum non dui volutpat fringilla bibendum. Urna, urna, vitae feugiat pretium donec id elementum. Ultrices mattis sed vitae mus risus. Lacus nisi, et ac dapibus sit eu velit in consequat.

$800.00

★★★★★ | 5.0 Rating | 22 Review

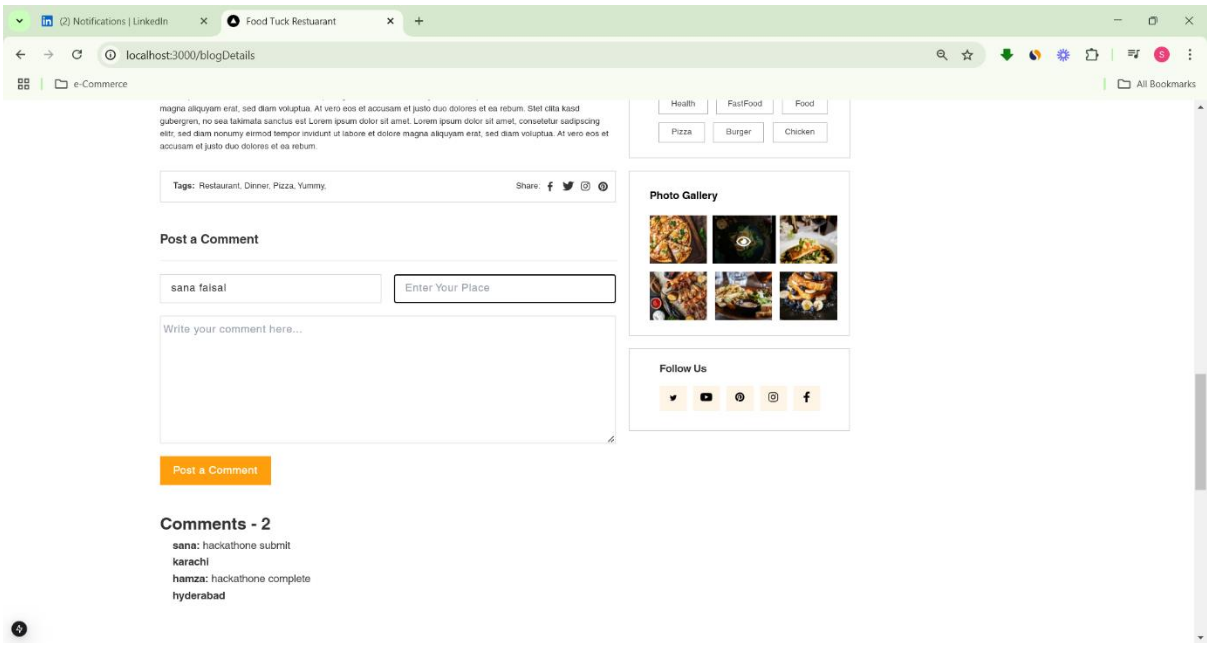
Dictum/cursus/Risus

Category: Pizza

Tag: Our Shop

Introduction to Dynamic Pages in Next.js
Dynamic pages in Next.js allow developers to create flexible and scalable applications where the content and route are based on data passed in the URL. This feature is especially useful when building content-rich websites such as blogs, product pages, or user-specific dashboards. With dynamic routing, you can create pages that respond to varying URL parameters, making it easy to handle many unique pages from a single template.
Creating Dynamic Routes in Next.js

f. Comment Section:



magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet. Lorem ipsum dolor sit amet, consetetur sadipscing elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero eos et accusam et justo duo dolores et ea rebum.

Tags: Restaurant, Dinner, Pizza, Yummy, Share:

Health FastFood Food
Pizza Burger Chicken

Photo Gallery

Post a Comment

sana faisal

Enter Your Place

Write your comment here...

Post a Comment

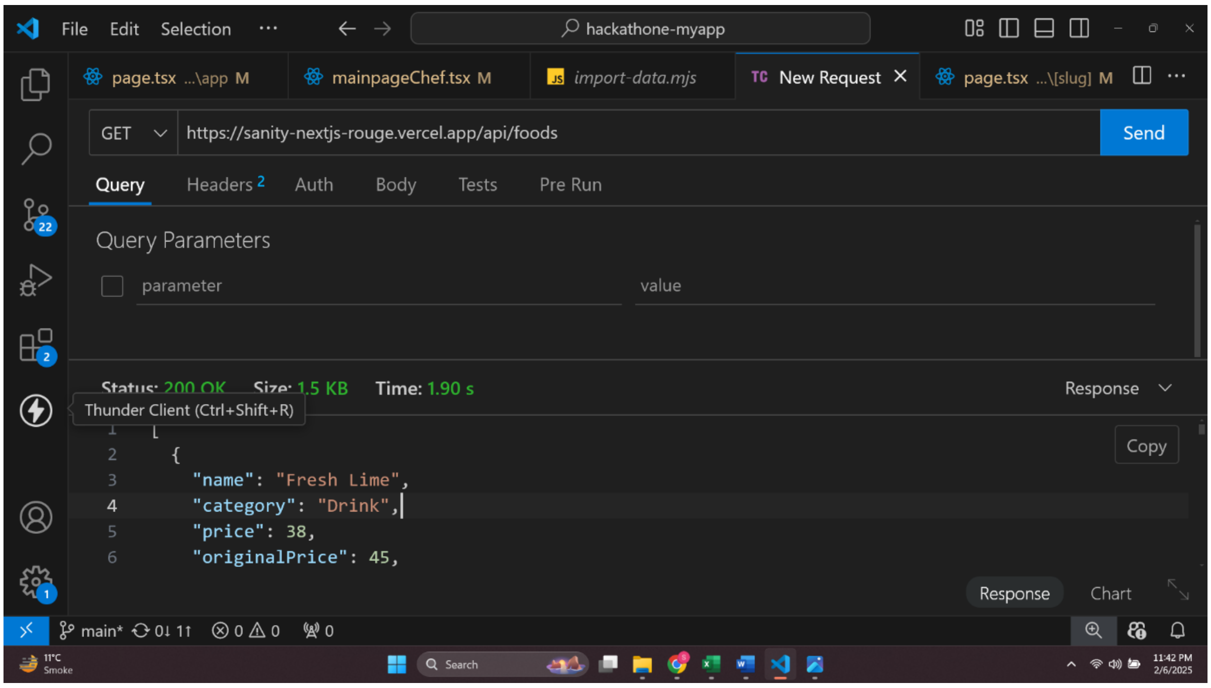
Follow Us

Comments - 2

sana: hackathone submit
karachi
hamza: hackathone complete
hyderabad

➢ **Testing Tools**

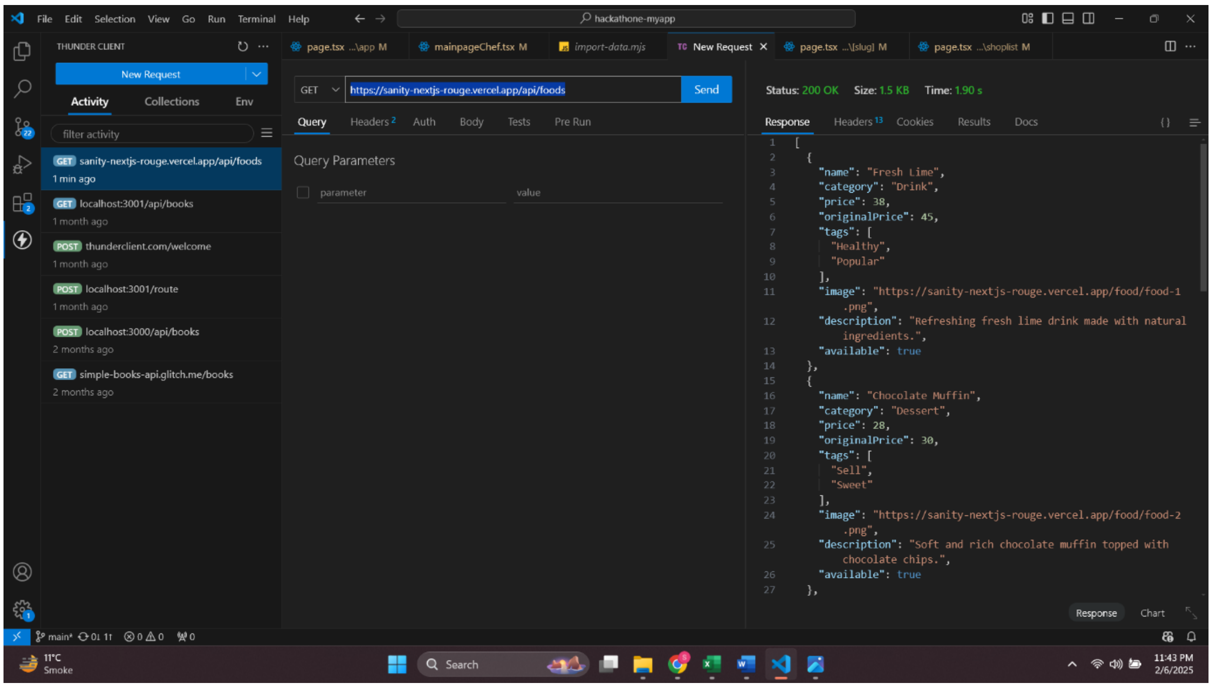
i. Thunder Client: we have tested API response on Thunder Client and below mentioned screenshots are showing that APIs are working fine.



GET https://sanity-nextjs-rouge.vercel.app/api/foods

Status: 200 OK Size: 1.5 KB Time: 1.90 s

```
[
  {
    "name": "Fresh Lime",
    "category": "Drink",
    "price": 38,
    "originalPrice": 45,
```



THUNDER CLIENT

GET sanity-nextjs-rouge.vercel.app/api/foods
1 min ago
GET localhost:3001/api/books
1 month ago
POST thunderclient.com/welcome
1 month ago
POST localhost:3001/route
1 month ago
POST localhost:3000/api/books
2 months ago
GET simple-books-api.glitch.me/books
2 months ago

GET https://sanity-nextjs-rouge.vercel.app/api/foods

Status: 200 OK Size: 1.5 KB Time: 1.90 s

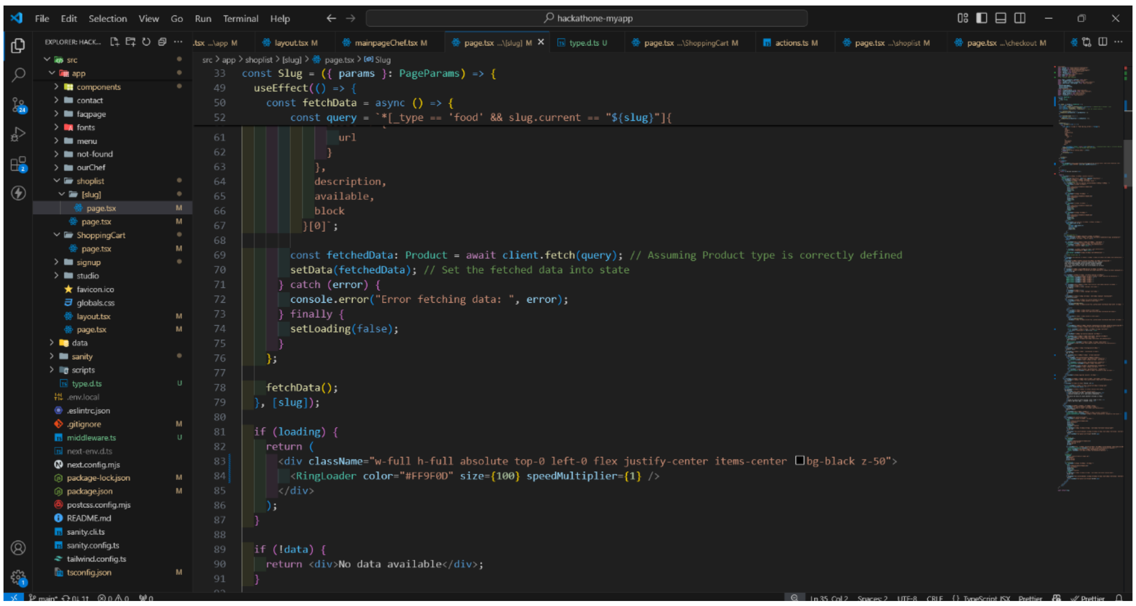
```
[
  {
    "name": "Fresh Lime",
    "category": "Drink",
    "price": 38,
    "originalPrice": 45,
    "tags": [
      "Healthy",
      "Popular"
    ],
    "image": "https://sanity-nextjs-rouge.vercel.app/food/food-1
        .png",
    "description": "Refreshing fresh lime drink made with natural
        ingredients.",
    "available": true
  },
  {
    "name": "Chocolate Muffin",
    "category": "Dessert",
    "price": 28,
    "originalPrice": 30,
    "tags": [
      "Sell",
      "Sweet"
    ],
    "image": "https://sanity-nextjs-rouge.vercel.app/food/food-2
        .png",
    "description": "Soft and rich chocolate muffin topped with
        chocolate chips.",
    "available": true
  },
```

Step # 2: Error Handling

Test Case: TC007

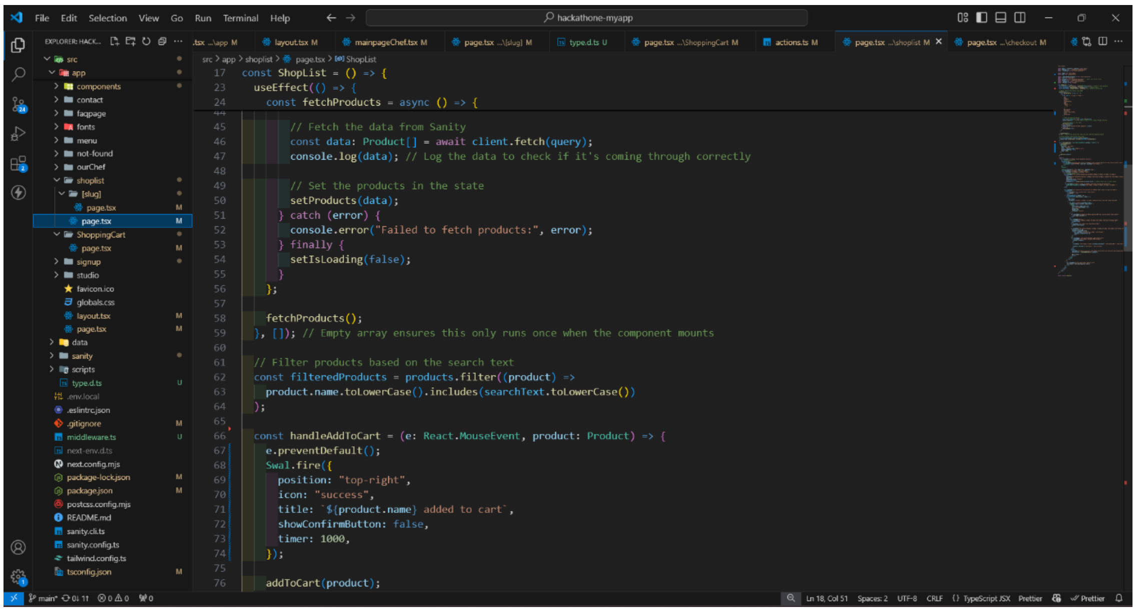
- **Task Name: Test API Error Handling**
- **Feedback & Result:** Verified that **API Error Handling Functionality** is working fine.
- **Status:** Passed
- **Security:** Medium
- **Remarks:** Handled gracefully

i. Error Handing on Dynamic Routing pages



```tsx
const Slug = ({ params }: PageParams) => {
  useEffect(() => {
    const fetchData = async () => {
        const query = `*[_type == 'food' && slug.current == "${slug}"]{
                url
              }
            },
            description,
            available,
            block
          }[0]`;

        const fetchedData: Product = await client.fetch(query); // Assuming Product type is correctly defined
        setData(fetchedData); // Set the fetched data into state
      } catch (error) {
        console.error("Error fetching data: ", error);
      } finally {
        setLoading(false);
      }
    };

    fetchData();
  }, [slug]);

  if (loading) {
    return (
      <div className="w-full h-full absolute top-0 left-0 flex justify-center items-center bg-black z-50">
        <RingLoader color="#FF9F0D" size={100} speedMultiplier={1} />
      </div>
    );
  }

  if (!data) {
    return <div>No data available</div>;
  }
```

ii. Error Handling on Product Listing Page



```tsx
const ShopList = () => {
  useEffect(() => {
    const fetchProducts = async () => {
        // Fetch the data from Sanity
        const data: Product[] = await client.fetch(query);
        console.log(data); // Log the data to check if it's coming through correctly

        // Set the products in the state
        setProducts(data);
      } catch (error) {
        console.error("Failed to fetch products:", error);
      } finally {
        setIsLoading(false);
      }
    };

    fetchProducts();
  }, []); // Empty array ensures this only runs once when the component mounts

  // Filter products based on the search text
  const filteredProducts = products.filter((product) =>
    product.name.toLowerCase().includes(searchText.toLowerCase())
  );

  const handleAddToCart = (e: React.MouseEvent, product: Product) => {
    e.preventDefault();
    Swal.fire({
      position: "top-right",
      icon: "success",
      title: `${product.name} added to cart`,
      showConfirmButton: false,
      timer: 1000,
    });

    addToCart(product);
```

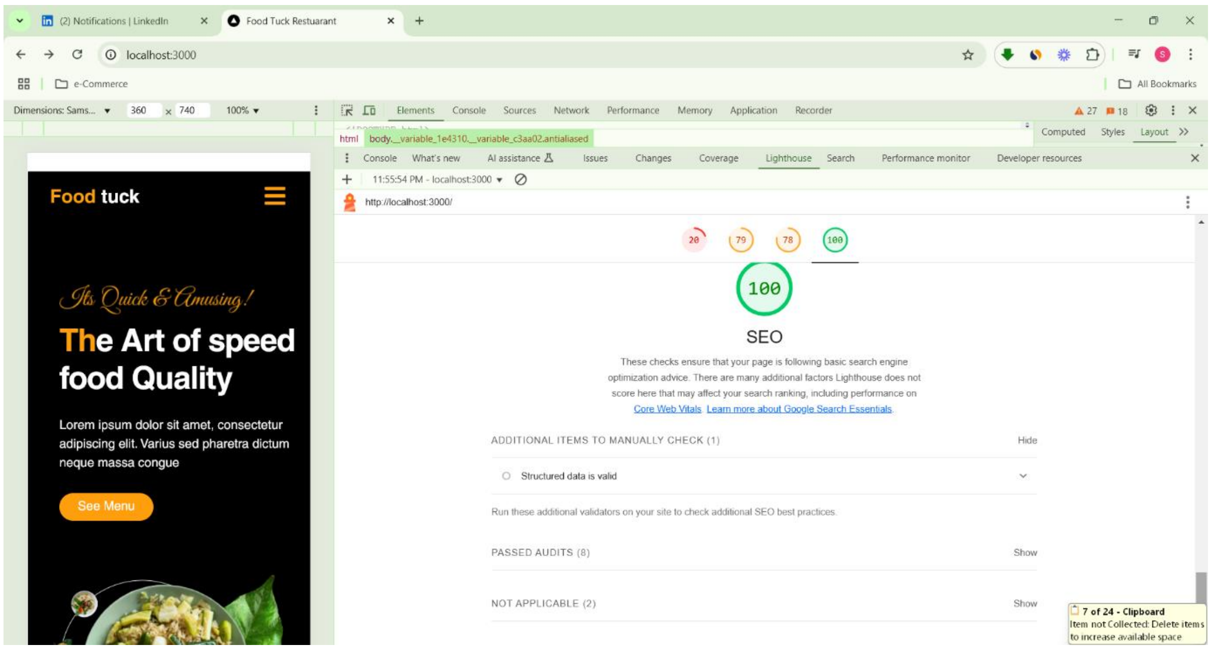
Test Case: TC008

- **Task Name: Test Responsiveness on small (Mobile) screen**
- **Feedback & Result:** Verified that **Responsiveness on Small (Mobile) screen Functionality** is working fine.
- **Status:** Passed
- **Security:** Medium
- **Remarks:** Successful Test

Step # 3: Performance Optimization

i. **Lighthouse:** We have tested and analyzed our website performance optimization in lighthouse to identify the speed and performance issues of our website. Below are the screenshot showing the same.

Screenshot # 1



(2) Notifications | LinkedIn
Food Tuck Restuarant
localhost:3000
e-Commerce
All Bookmarks
Dimensions: Sams... 360 x 740 100%
Elements Console Sources Network Performance Memory Application Recorder
Computed Styles Layout
Console What's new AI assistance Issues Changes Coverage Lighthouse Search Performance monitor Developer resources
Food tuck
It's Quick & Amusing!
The Art of speed food Quality
See Menu
20
79
78
100

html body.__variable_1e4310.__variable_c3aa02.antialiased

11:55:54 PM - localhost:3000

http://localhost:3000/

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Varius sed pharetra dictum neque massa congue

100

SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on Core Web Vitals. Learn more about Google Search Essentials.

ADDITIONAL ITEMS TO MANUALLY CHECK (1) Hide

Structured data is valid

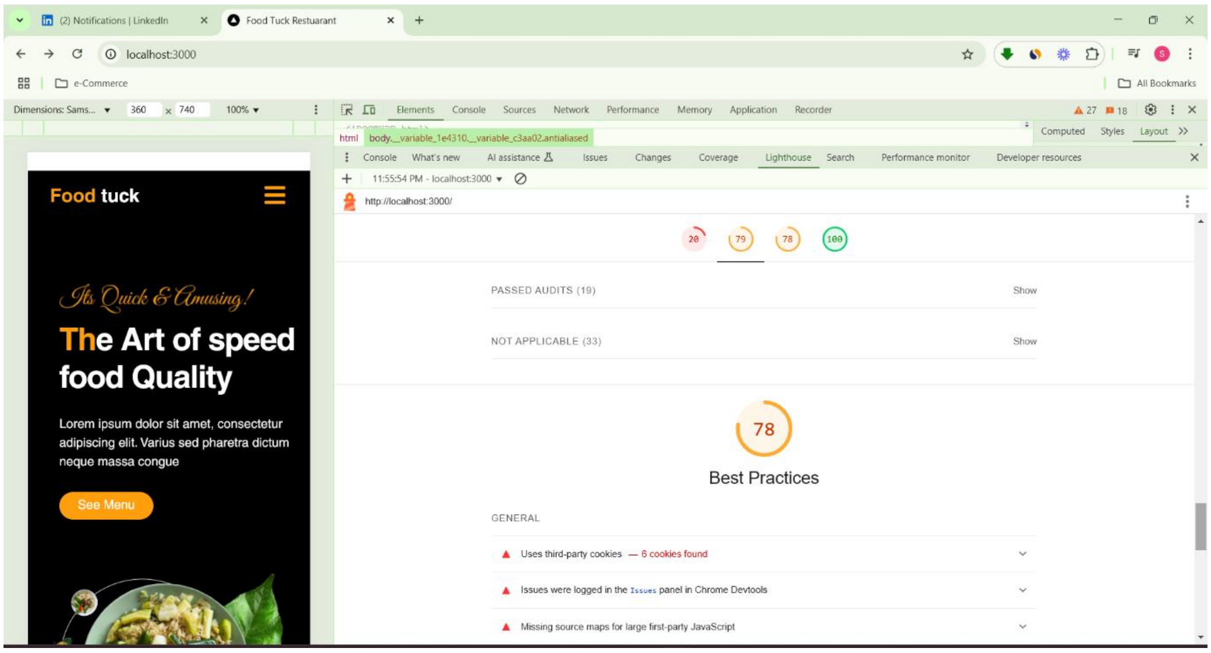
Run these additional validators on your site to check additional SEO best practices.

PASSED AUDITS (8) Show

NOT APPLICABLE (2) Show

7 of 24 - Clipboard
Item not Collected: Delete items to increase available space

Screenshot # 2



The Art of speed food Quality

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Varius sed pharetra dictum neque massa congue

PASSED AUDITS (19)

NOT APPLICABLE (33)

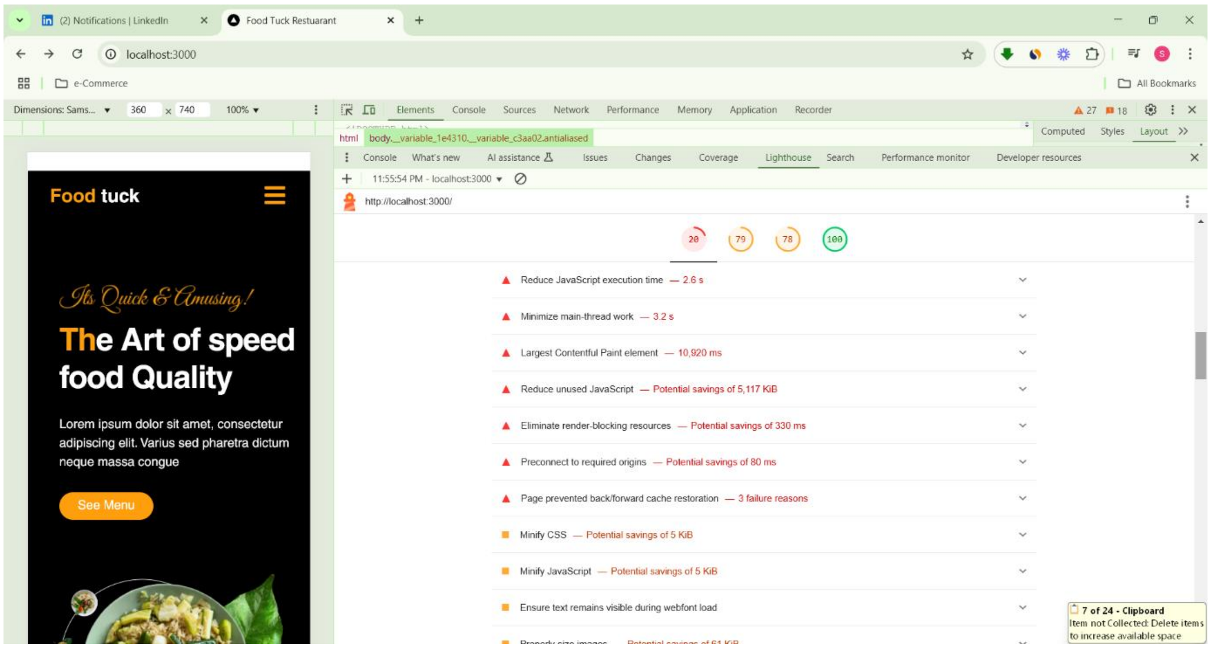
78

Best Practices

GENERAL

- Uses third-party cookies — 6 cookies found
- Issues were logged in the `Issues` panel in Chrome Devtools
- Missing source maps for large first-party JavaScript

Screenshot # 3

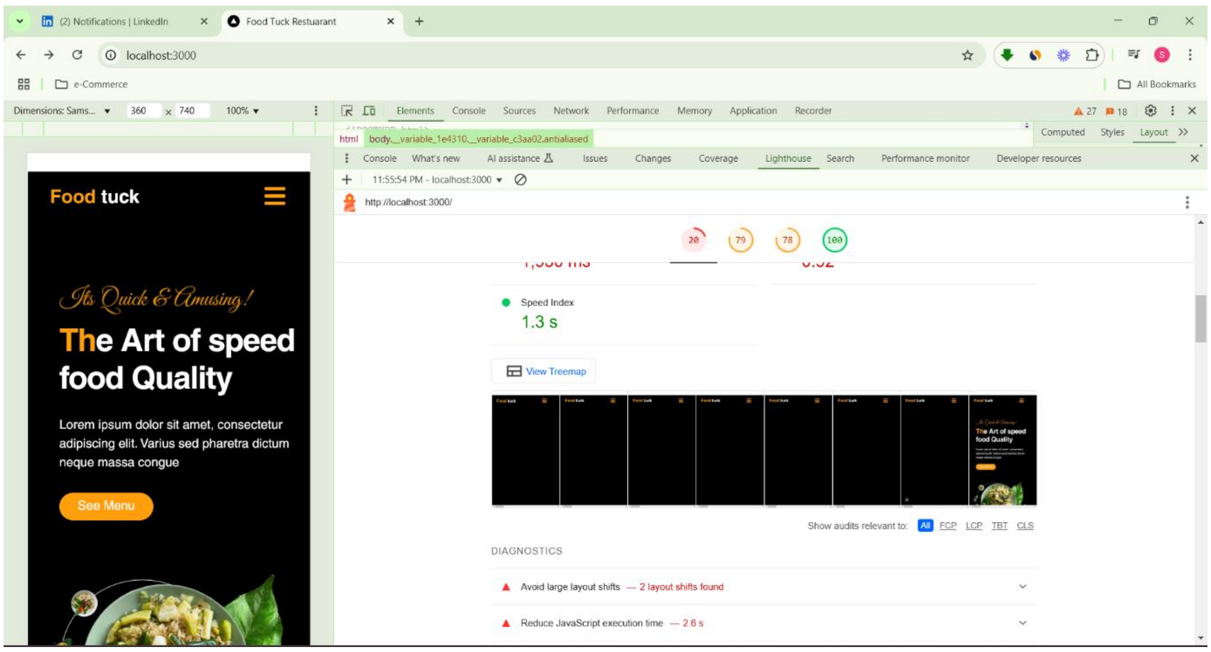


The Art of speed food Quality

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Varius sed pharetra dictum neque massa congue

- Reduce JavaScript execution time — 2.6 s
- Minimize main-thread work — 3.2 s
- Largest Contentful Paint element — 10,920 ms
- Reduce unused JavaScript — Potential savings of 5,117 KiB
- Eliminate render-blocking resources — Potential savings of 330 ms
- Preconnect to required origins — Potential savings of 80 ms
- Page prevented back/forward cache restoration — 3 failure reasons
- Minify CSS — Potential savings of 5 KiB
- Minify JavaScript — Potential savings of 5 KiB
- Ensure text remains visible during webfont load
- Properly size images — Potential savings of 61 KiB

Screenshot # 4



Food tuck

Its Quick & Amusing!

The Art of speed food Quality

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Varius sed pharetra dictum neque massa congue

See Menu

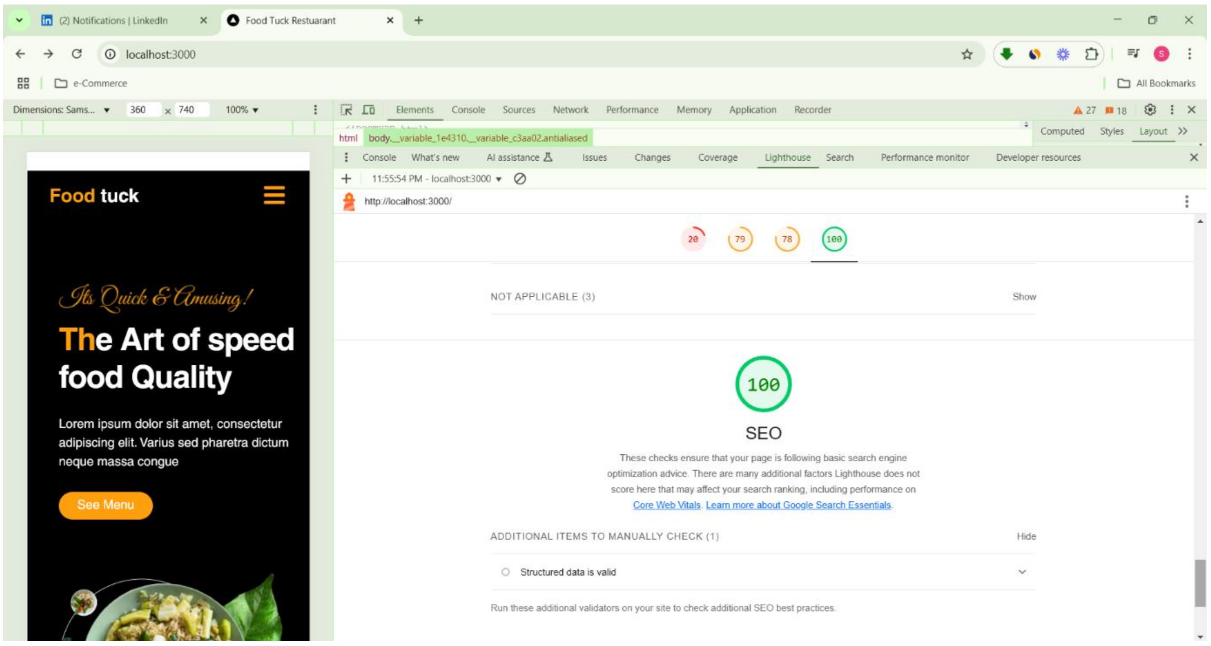
Speed Index
1.3 s

DIAGNOSTICS

Avoid large layout shifts — 2 layout shifts found

Reduce JavaScript execution time — 2.6 s

Screenshot # 5



Food tuck

Its Quick & Amusing!

The Art of speed food Quality

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Varius sed pharetra dictum neque massa congue

See Menu

NOT APPLICABLE (3)

100

SEO

These checks ensure that your page is following basic search engine optimization advice. There are many additional factors Lighthouse does not score here that may affect your search ranking, including performance on Core Web Vitals. Learn more about Google Search Essentials.

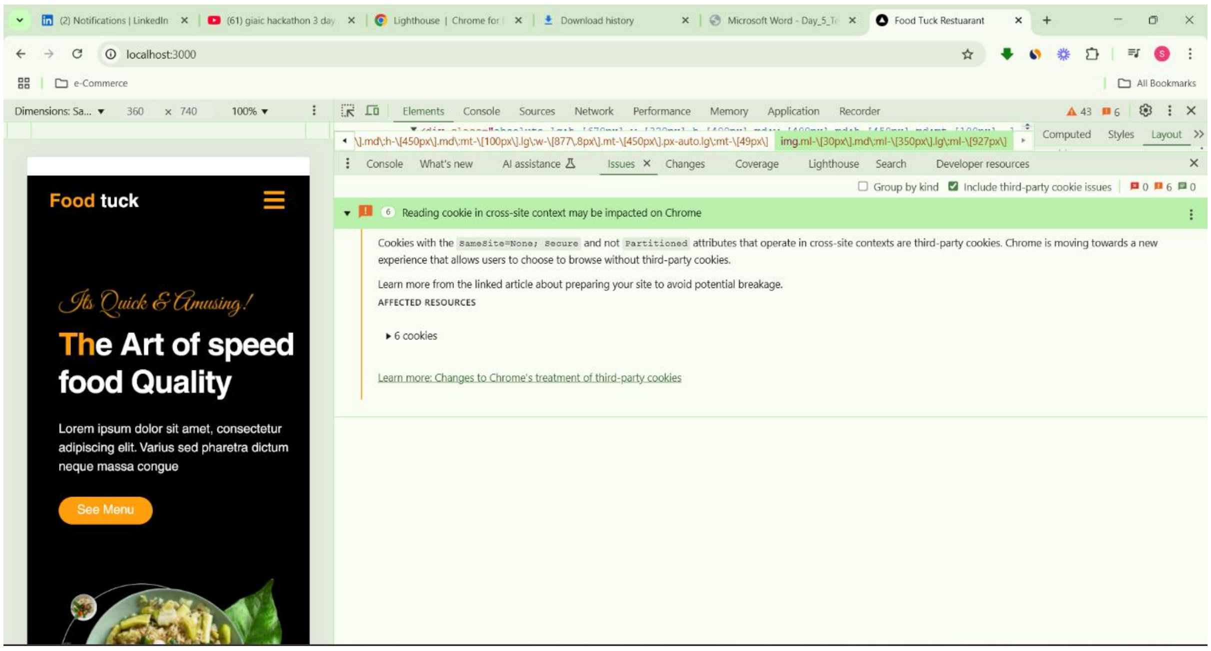
ADDITIONAL ITEMS TO MANUALLY CHECK (1)

Structured data is valid

Run these additional validators on your site to check additional SEO best practices.

ii. **Testing website performance on other tools:** We have tested and analyzed our website performance optimization on other tools as well. Below are the screenshots showing the same.

a. Check the website issue tool



Reading cookie in cross-site context may be impacted on Chrome

Cookies with the `SameSite=None; Secure` and not `Partitioned` attributes that operate in cross-site contexts are third-party cookies. Chrome is moving towards a new experience that allows users to choose to browse without third-party cookies.

Learn more from the linked article about preparing your site to avoid potential breakage.

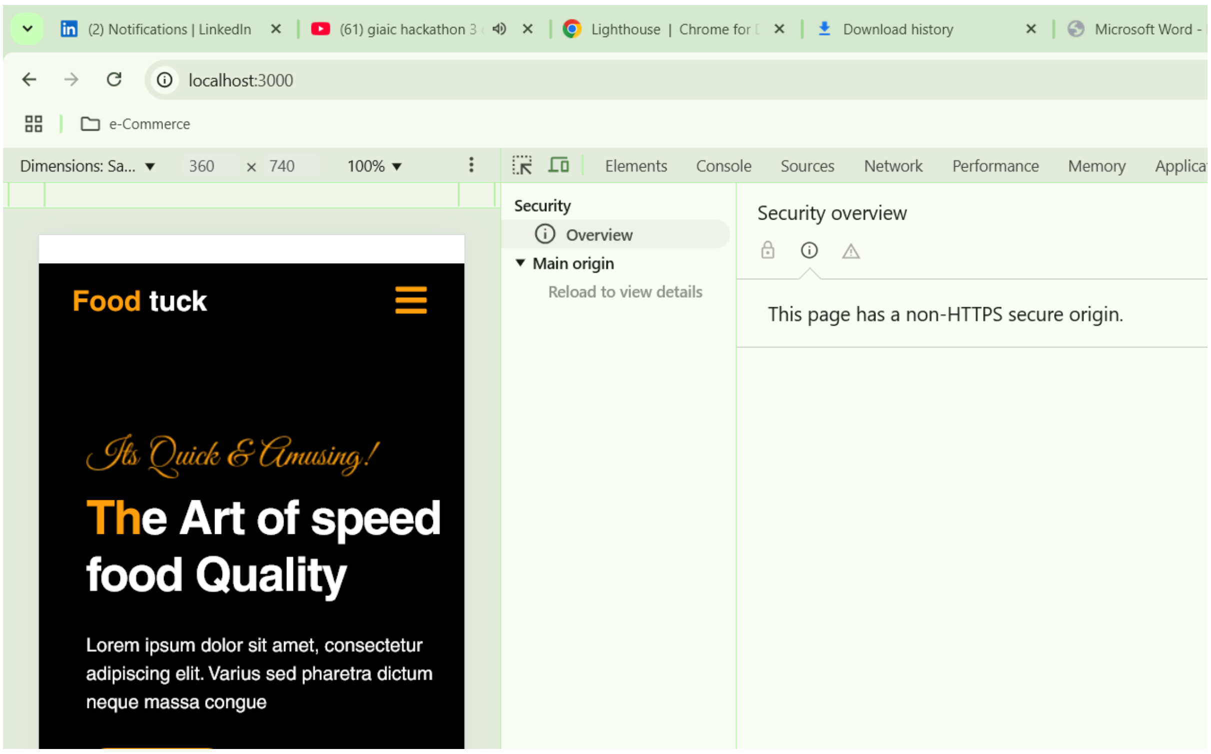
AFFECTED RESOURCES

6 cookies

Learn more: Changes to Chrome's treatment of third-party cookies

localhost:3000
Food tuck
Its Quick & Amusing!
The Art of speed food Quality
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Varius sed pharetra dictum neque massa congue
See Menu

b. Check the website security



Security overview

This page has a non-HTTPS secure origin.

localhost:3000
Security
Overview
Main origin
Reload to view details
Food tuck
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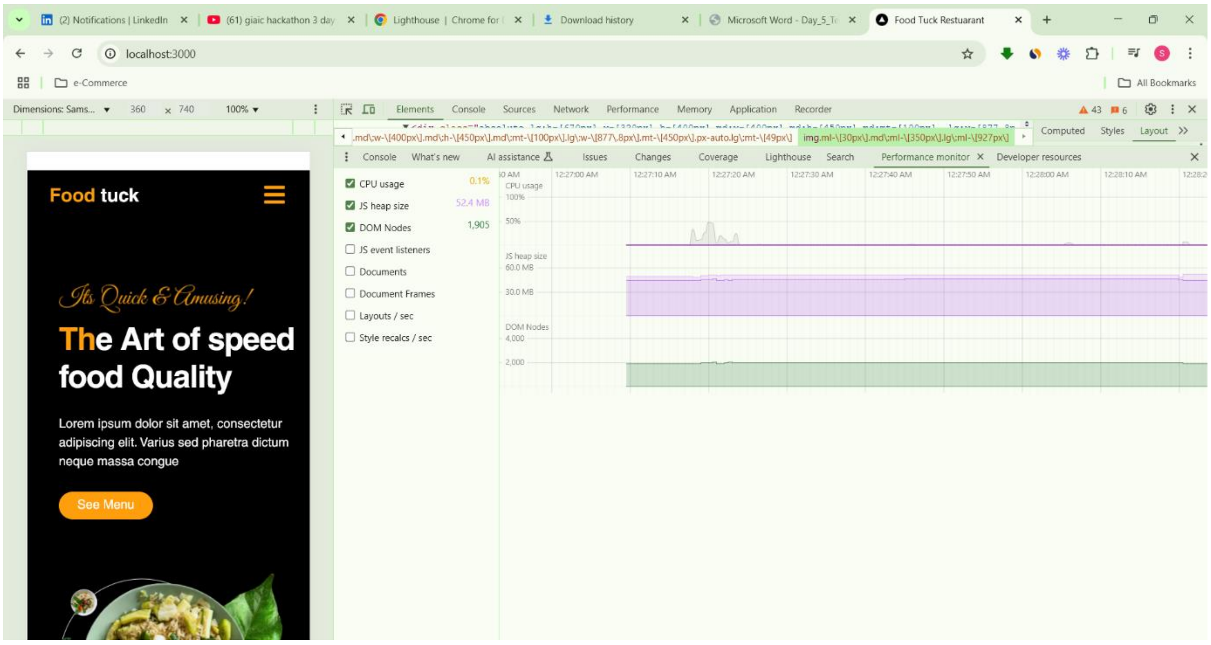
The Art of speed food Quality
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Varius sed pharetra dictum neque massa congue

c. Check the website performance monitor tool



- ☑ CPU usage 0.1%
- ☑ JS heap size 52.4 MB
- ☑ DOM Nodes 1,905
- ☐ JS event listeners
- ☐ Documents
- ☐ Document Frames
- ☐ Layouts / sec
- ☐ Style recalcs / sec

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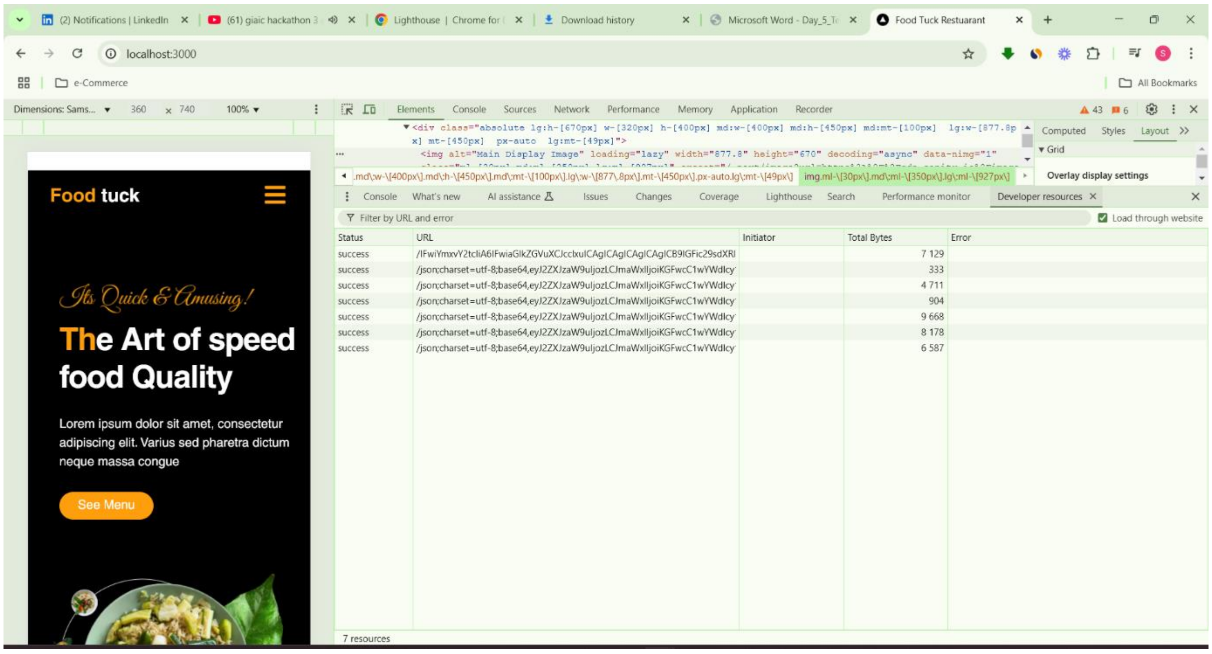
Performance monitor
Developer resources

d. Check the website developer resources tool



```
<div class="absolute lg:h-[670px] w-[320px] h-[400px] md:w-[400px] md:h-[450px] md:mt-[100px]  lg:w-[877.8px] mt-[450px]  px-auto  lg:mt-[49px]">
  <img alt="Main Display Image" loading="lazy" width="877.8" height="670" decoding="async" data-nimg="1"
```

Status	URL	Initiator	Total Bytes	Error
success	/IFwiYmxvY2tcliA6IFwiaGlkZGVuXCJcclxuICAgICAgICAgICAgICB9IGFic29sdXRl		7 129	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxlIjoiKGFwcC1wYWdlcy		333	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxlIjoiKGFwcC1wYWdlcy		4 711	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxlIjoiKGFwcC1wYWdlcy		904	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxlIjoiKGFwcC1wYWdlcy		9 668	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxlIjoiKGFwcC1wYWdlcy		8 178	
success	/json;charset=utf-8;base64,eyJ2ZXJzaW9uIjozLCJmaWxlIjoiKGFwcC1wYWdlcy		6 587	

7 resources

Step # 4: Cross-Browser and Device Testing

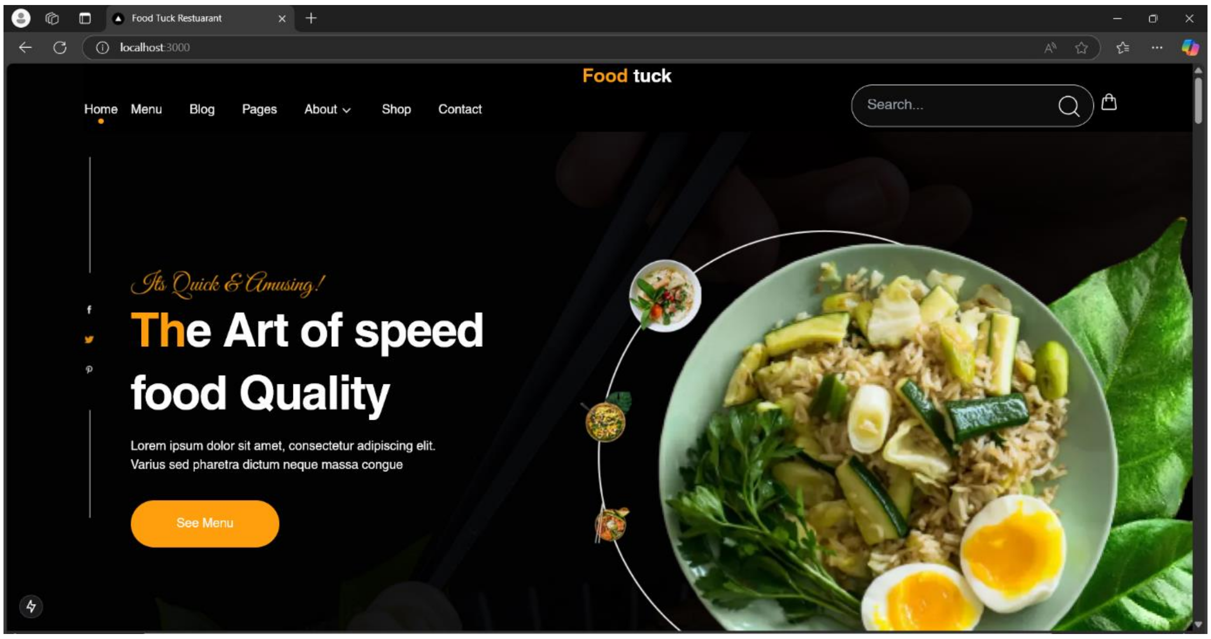
Test Case: TC009

- **Task Name: Test Website on Different Browsers (Chrome & Microsoft Edge)**
- **Feedback & Result:** Verified that **Website on Different Browsers (Chrome & Microsoft Edge)** is working fine.
- **Status:** Passed
- **Security:** Low
- **Remarks:** Successful Test

1. Browser Testing:
   We have tested our website working on two different browsers
      i. Chrome
      ii. Microsoft Edge

   Below are the screenshots of different browsers

Screenshot of Chrome Browser:


Food Tuck Restuarant
localhost:3000
Food tuck
Home
Menu
Blog
Pages
About
Shop
Contact
Search...
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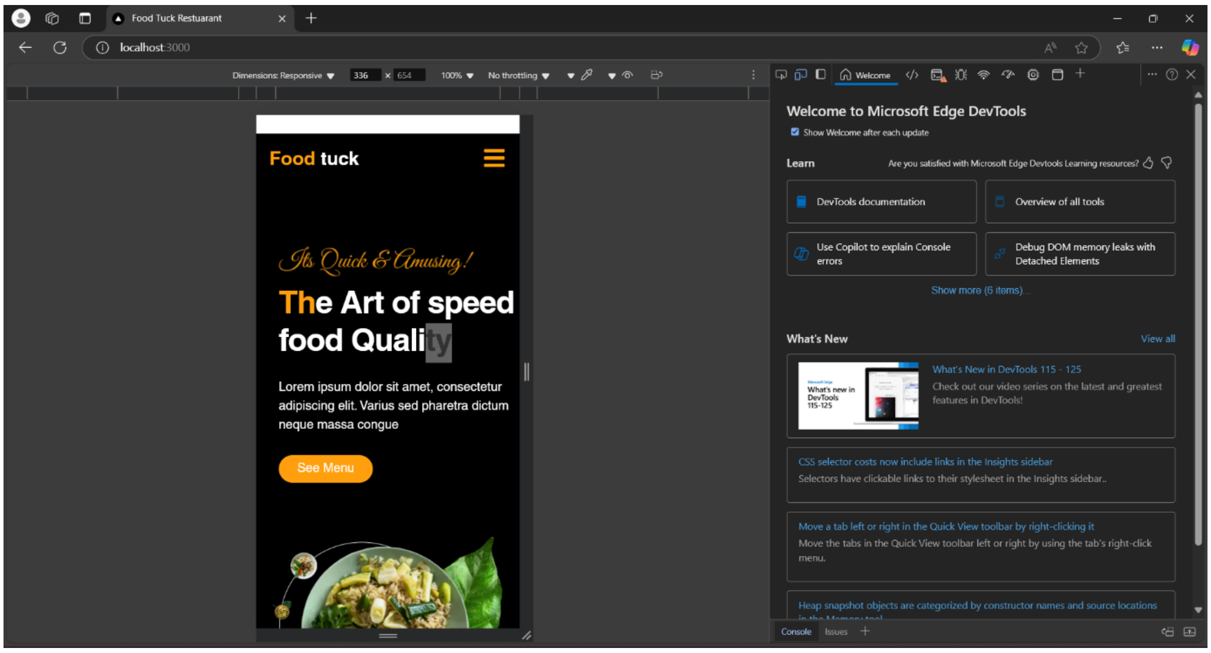
See Menu

Screenshot of Microsoft Edge Browser:


Food Tuck Restuarant

localhost:3000

Dimensions: Responsive 336 × 654 100% No throttling

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Welcome to Microsoft Edge DevTools

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DevTools documentation

Overview of all tools

Use Copilot to explain Console errors

Debug DOM memory leaks with Detached Elements

Show more (6 items)...

What's New — View all

What's New in DevTools 115 - 125
Check out our video series on the latest and greatest features in DevTools!

CSS selector costs now include links in the Insights sidebar
Selectors have clickable links to their stylesheet in the Insights sidebar..

Move a tab left or right in the Quick View toolbar by right-clicking it
Move the tabs in the Quick View toolbar left or right by using the tab's right-click menu.

Heap snapshot objects are categorized by constructor names and source locations in the Memory tool

Console Issues

Step # 5: Security Testing

Step # 6: User Acceptance Testing (UAT)

We have performed all the below listed tasks and observed that the all tasks are working fine without any issues.

i. Browsing Main Page
ii. Browsing products Listing Page
iii. Filter & Search Products
iv. Browsing Dynamic Routing Pages
v. Check Out Operations
    a. Add items to cart
    b. Update items to cart
    c. Delete items from cart
vi. Checkout data calling to sanity
vii. Mobile Responsiveness Testing
viii. APIs Testing through Thunder Client
ix. Website Browsing on Different Browsers

Step # 8: Testing Report (CSV Format):

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC001	Validate Home Page Login	Open Home Page >	Home Page displayed correctly	Home Page displayed correctly	Passed	Low	-	No issues found
TC002	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Medium	-	No issues found
TC003	Filter & Search page	Open product page > Search and Filter Products	Searched Products displayed correctly	Searched Products displayed correctly	Passed	Low	-	Works as expected
TC004	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	-	Works as expected
TC005	Dynamic Routing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Low	-	No issues found
TC006	Comment Section	Comment Section	The Comment Section is working fine.	The Comment Section is working fine.	Passed	Medium	-	Successful Test
TC007	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-	Handled gracefully
TC008	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	-	Successful Test
TC009	Test website on Different browsers	Test Website > Chrome & Microsoft Edge	Web Pages displayed Successfully	Web Pages displayed Successfully	Passed	Low	-	Successful Test

THE END