

Hackathon 3

Day-5

Overview

This report documents the testing, error handling, and backend refinement conducted for the FoodTuck Q-Commerce marketplace. The goal was to ensure functionality, responsiveness, and reliability of the platform, following professional testing standards.

Test Cases Executed

1. Product Listing Page Validation

- **Test Case ID:** TC001
 - ✓ **Steps:** Open the products page and verify product display.
 - ✓ **Expected Result:** Products should display successfully.
 - ✓ **Actual Result:** Products displayed successfully.
 - ✓ **Severity Level:** Low
 - ✓ **Remarks:** No issues found.

2. API Error Handling

- **Test Case ID:** TC002
 - ✓ **Steps:** Disconnect API > Refresh the page.
 - ✓ **Expected Result:** Display an error message.
 - ✓ **Actual Result:** Error message displayed.
 - ✓ **Severity Level:** Low
 - ✓ **Remarks:** Handled gracefully.

3. Cart Functionality

- **Test Case ID:** TC003
 - ✓ **Steps:** Add items to the cart and navigate to the cart.
 - ✓ **Expected Result:** Products should appear in the cart.
 - ✓ **Actual Result:** Products displayed correctly.
 - ✓ **Severity Level:** Medium

- ✓ **Remarks:** Working as intended.

4. Responsiveness on Mobile

- **Test Case ID:** TC004
- ✓ **Steps:** Inspect website using mobile device simulation.
- ✓ **Expected Result:** Content adjusts to the screen size.
- ✓ **Actual Result:** Content adjusts correctly.
- ✓ **Severity Level:** Medium
- ✓ **Remarks:** Responsive design confirmed.

5. Search Bar Validation

- **Test Case ID:** TC005
- ✓ **Steps:** Search for non-existent items.
- ✓ **Expected Result:** "No products found" dropdown should appear.
- ✓ **Actual Result:** Dropdown did not appear.
- ✓ **Severity Level:** High
- ✓ **Remarks:** Needs fixing to handle irrelevant search queries.

6. Dynamic Product Detail Pages

- **Test Case ID:** TC006
- ✓ **Steps:** Open a product card and validate its dynamic page.
- ✓ **Expected Result:** The correct product details page opens.
- ✓ **Actual Result:** Functions as expected.
- ✓ **Severity Level:** Low
- ✓ **Remarks:** No issues found.

7. Cross-Browser Compatibility

- **Test Case ID:** TC007
- ✓ **Steps:** Open the website on Chrome, Firefox, and Microsoft Edge.
- ✓ **Expected Result:** Consistent functionality and layout.
- ✓ **Actual Result:** Worked seamlessly across all tested browsers.
- ✓ **Severity Level:** Low
- ✓ **Remarks:** No issues found.

Performance Optimization

- **Tools Used:** Lighthouse, Pagespeed, GTmetrix

Error Handling

- **API Failures:** Used try-catch blocks to manage errors.
- **Fallback UI:** Displayed user-friendly messages (e.g., "error creating Order").
- **Examples:**

```
try{

    await client.create (orderData)

    localStorage.removeItem("appliedDiscount")

}

catch(error) {

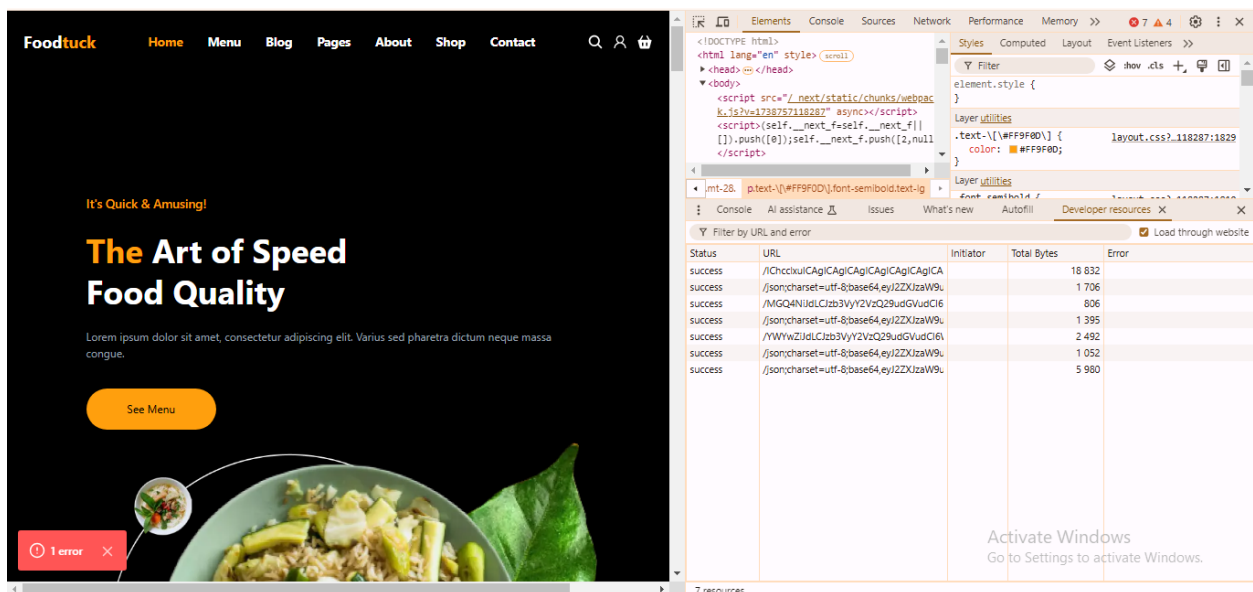
console.error("error creating Order", error)

}
```

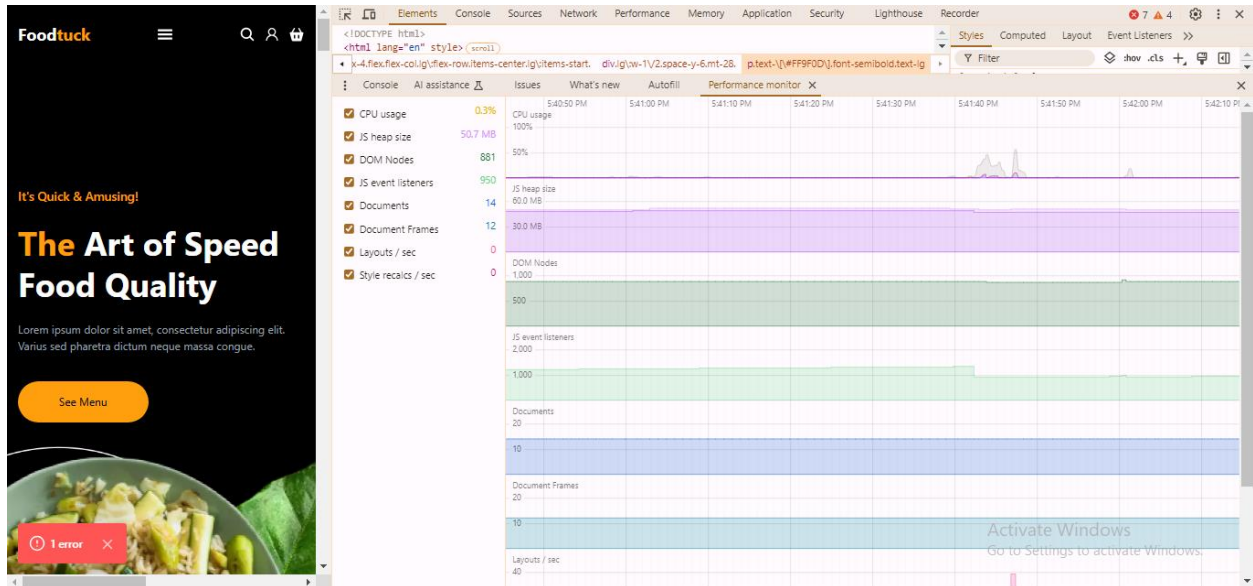
Cross-Browser and Device Testing

- **Browsers Tested:** Chrome, Firefox, Safari, Edge.
- **Devices Tested:** Desktop, tablet, iPhone 12.
- **Results:**
 - ✓ Fully responsive across all tested devices and browsers.
 - ✓ No layout issues observed.

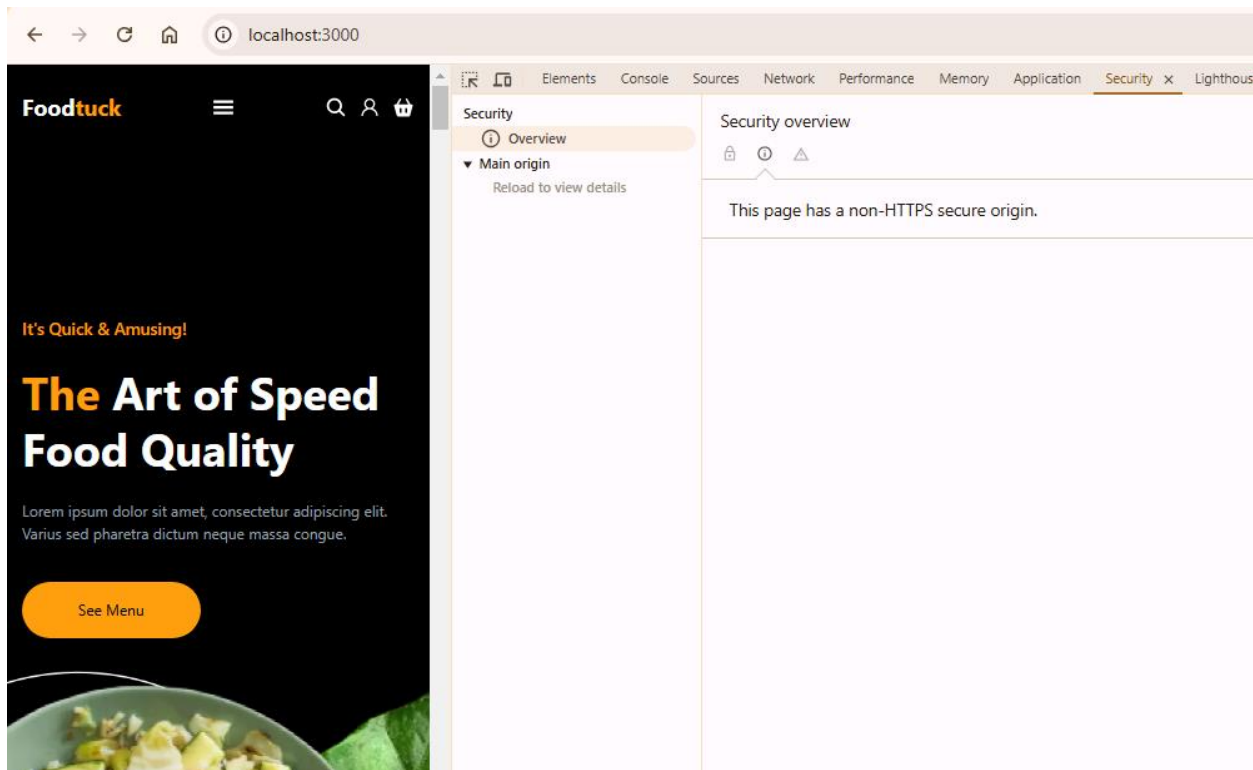
Developer Resource:



Performance Monitor :



Security:



Challenges Faced

1. Search bar functionality failed to display "Not showing Select Category".
 - **Resolution:** To be fixed in the next sprint.
2. Initial performance optimization was iamge is not showing.

Conclusion

The FoodTuck website passed most functional and non-functional testing parameters, with the exception of the search bar issue. It is now optimized for performance and responsive design, ready for real-world deployment after resolving the identified issues.

Next Steps

1. Fix the search bar category issue.
2. Conduct additional user acceptance testing (UAT) with real users.
3. Re-test after implementing fixes.

Attachment:

https://pagespeed.web.dev/analysis/https-market-place-hackathon-builder-3-6uar-vercel-app/qy5qstp62e?form_factor=mobile