Day 6: Deployment Preparation and Staging Environment Setup

1. Staging Environment Setup

- **Hosting Platform**: [Insert chosen platform name, e.g., Vercel]
- **Repository Connection**: Connected GitHub repository to [Vercel/Netlify]. The project was linked via the platform's dashboard.
- **Build and Deployment Settings**:
  - Build settings configured as per platform requirements.
  - Ensured that the correct build commands (e.g., `npm run build`) are specified.
  - Deployment pipeline verified to trigger automatically after code push to main branch.

2. Environment Variables

- **Secure Variables**:

`.env` file created with sensitive information:
Ex : `NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id`
`NEXT_PUBLIC_SANITY_DATASET=production`
`API_KEY=your_api_key`

- **Uploading Variables to Platform**:
  - Environment variables added securely via the platform's dashboard (e.g., Vercel’s Environment Variables section).

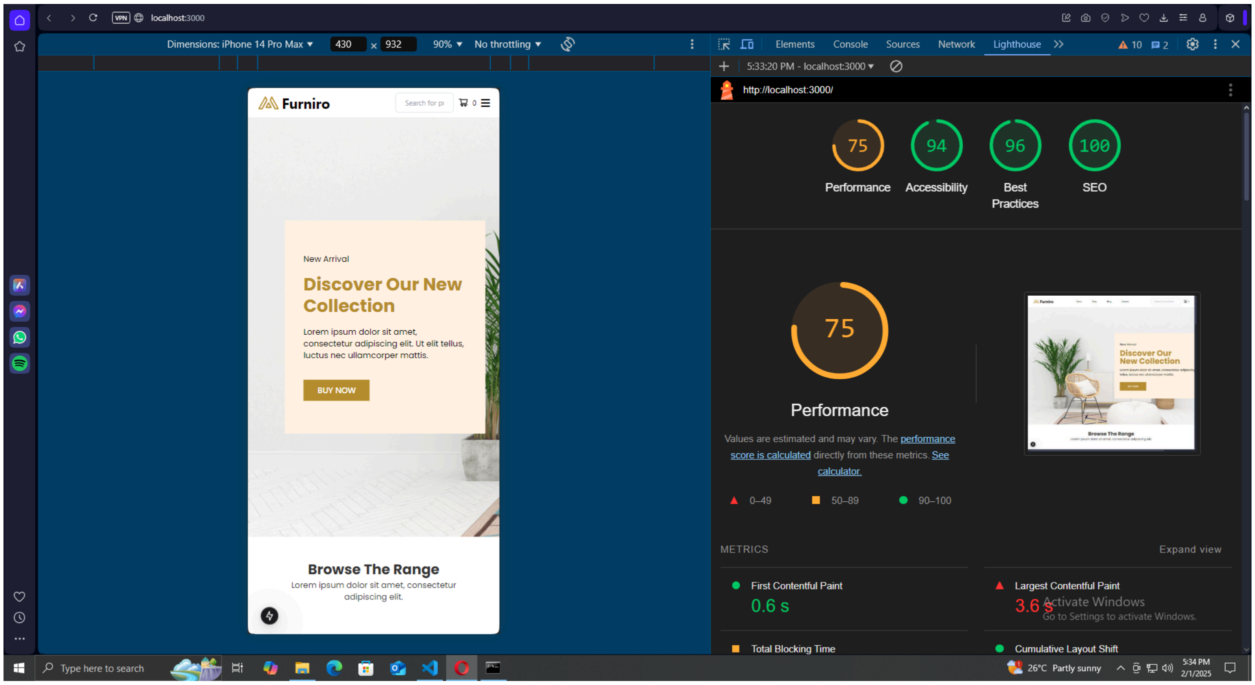
3. Staging Deployment

- **Deployment Confirmation**:
  - Deployment completed successfully without errors.
  - Site loaded correctly in the staging environment.
  - Any issues faced during deployment were resolved (e.g., misconfigured environment variables).

4. Staging Environment Testing

- **Types of Testing Conducted**:

1. **Functional Testing**: Verified features such as:
   - Product listing.
   - Search functionality.
   - Cart operations.
2. **Performance Testing**:
   - Used **Lighthouse** to check site performance.
   - Results showed total performance score of 75% which will be improved.



http://localhost:3000/

75	94	96	100
Performance	Accessibility	Best Practices	SEO

75

Performance

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

▲ 0–49 ■ 50–89 ● 90–100

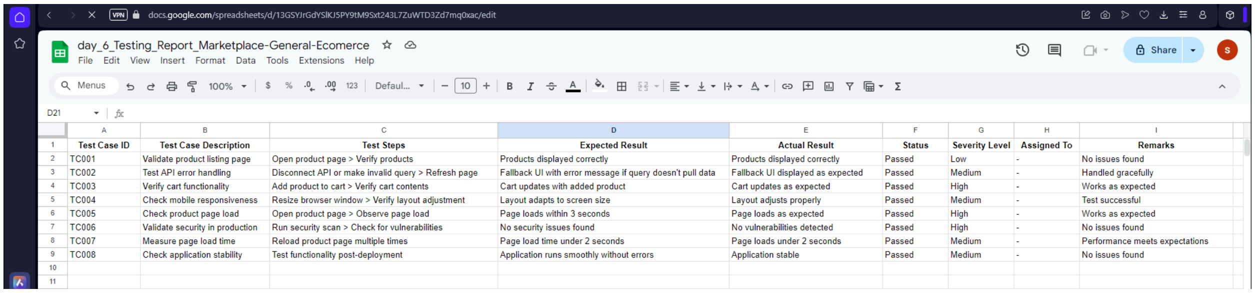
METRICS

Metric	Value
● First Contentful Paint	0.6 s
▲ Largest Contentful Paint	3.6 s
■ Total Blocking Time	
● Cumulative Layout Shift	

localhost:3000
Dimensions: iPhone 14 Pro Max
430 x 932
90%
No throttling
Elements
Console
Sources
Network
Lighthouse
5:33:20 PM - localhost:3000
Furniro
New Arrival
Discover Our New Collection
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut elit tellus, luctus nec ullamcorper mattis.
BUY NOW
Browse The Range
Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Expand view
Activate Windows
Go to Settings to activate Windows.
Type here to search
26°C Partly sunny
5:34 PM
2/1/2025

- **Test Case Reporting :**

Documented all test cases in the CSV format.



day_6_Testing_Report_Marketplace-General-Ecomerce

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	Low	-	No issues found
TC002	Test API error handling	Disconnect API or make invalid query > Refresh page	Fallback UI with error message if query doesn't pull data	Fallback UI displayed as expected	Passed	Medium	-	Handled gracefully
TC003	Verify cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	-	Works as expected
TC004	Check mobile responsiveness	Resize browser window > Verify layout adjustment	Layout adapts to screen size	Layout adjusts properly	Passed	Medium	-	Test successful
TC005	Check product page load	Open product page > Observe page load	Page loads within 3 seconds	Page loads as expected	Passed	High	-	Works as expected
TC006	Validate security in production	Run security scan > Check for vulnerabilities	No security issues found	No vulnerabilities detected	Passed	High	-	No issues found
TC007	Measure page load time	Reload product page multiple times	Page load time under 2 seconds	Page loads under 2 seconds	Passed	Medium	-	Performance meets expectations
TC008	Check application stability	Test functionality post-deployment	Application runs smoothly without errors	Application stable	Passed	Medium	-	No issues found

docs.google.com/spreadsheets/d/13GSYJrGdYSlKJ5PY9tM9Sxt243L7ZuWTD3Zd7mq0xac/edit
File
Edit
View
Insert
Format
Data
Tools
Extensions
Help
Menus
100%
Defaul...
10
D21
Share

Conclusion

- The staging environment has been successfully set up and tested.
- Deployment to the staging environment is complete, and all functionalities have been verified.
- Test case reports and performance results have been documented.