

Hackathon Day 5

Testing, Error Handling, And Backend Integration Refinement

Step 1: Functional Testing

Step 2: Error Handling

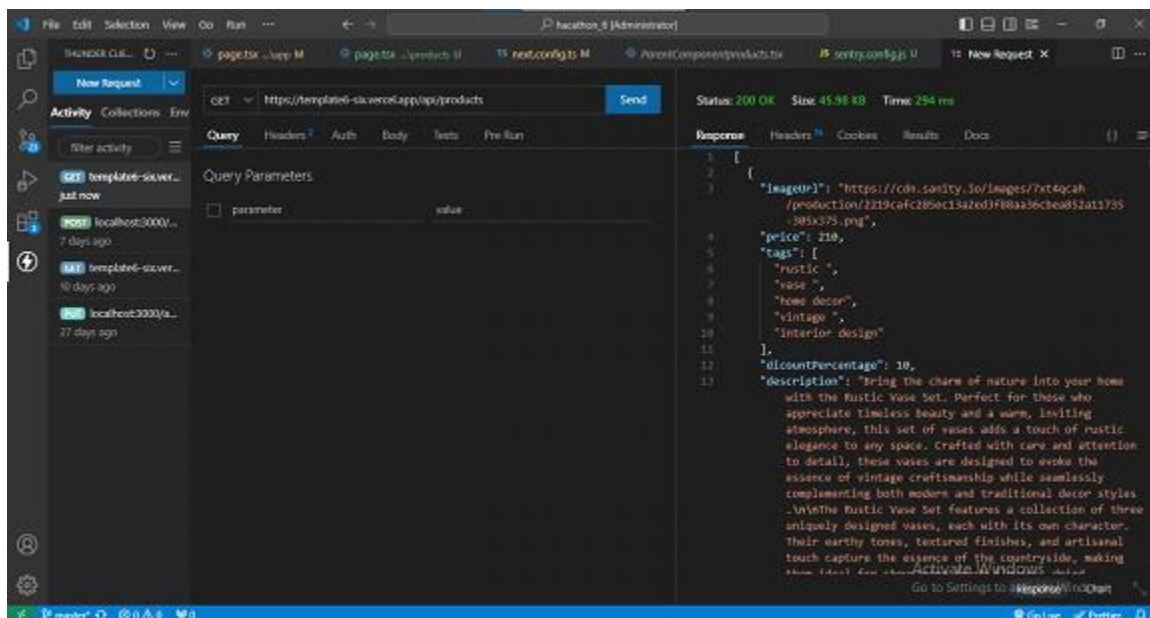
Step 3: Postman API

`https://template6-`

`six.vercel.app/api/products`

API (`https://template6-six.vercel.app/api/products`) ka test:

- Products ka data shai aa raha hai (status 200).
- Error scenarios (e.g., API down) par proper error message display ho raha hai.
- Tools: Thunder Client.

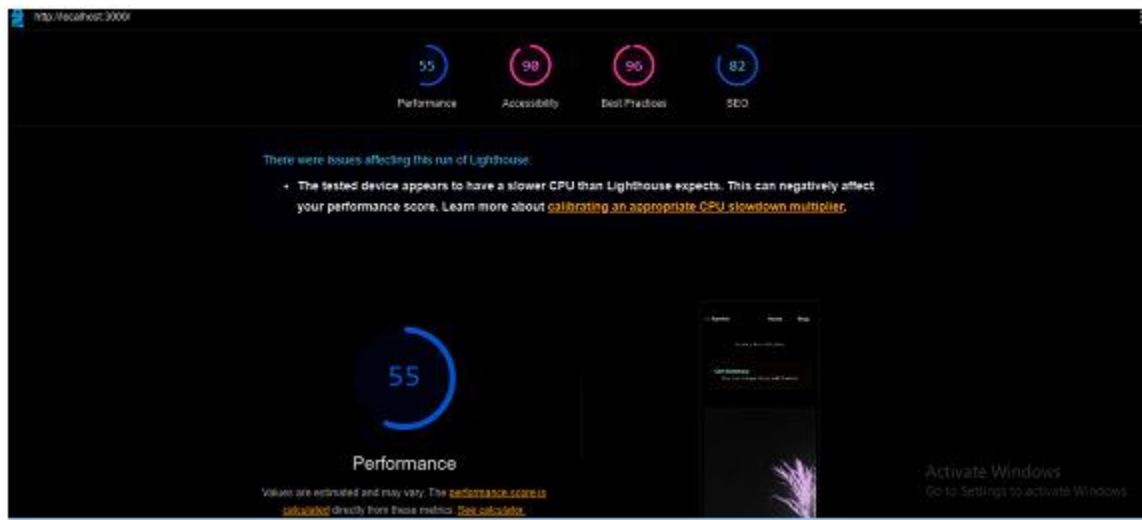


Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status	Severity Level	Assigned To	Remarks
TC001	Validate product listing page	Open product page > Verify products	Products displayed correctly	Products displayed correctly	Passed	High	-	No issues found
TC002	Test API error handling	Disconnect API > Refresh page	Show fallback UI with error message	Error message shown	Passed	Medium	-	Handled gracefully
TC003	Check cart functionality	Add product to cart > Verify cart contents	Cart updates with added product	Cart updates as expected	Passed	High	-	Works as expected
TC004	Ensure responsiveness on mobile	Resize browser window > Check layout	Layout adjusts properly to screen size	Responsive layout working as intended	Passed	Medium	-	No

Step 4: Performance Optimization

```
npm install -g lighthouse
```

```
lighthouse http://localhost:3000 --view
```



View Treemap

Show audits relevant to: All FCP LCP TBT CLS

DIAGNOSTICS

▲

Reduce JavaScript execution time — 3.1 s

▼

▲

Minimize main-thread work — 6.0 s

▼

▲

Largest Contentful Paint element — 5,160 ms

▼

▲

Largest Contentful Paint Image was lazily loaded

▼

▲

Minify JavaScript — Potential savings of 159 KiB

▼

Activate
Go to Settings

90

Accessibility

These checks highlight opportunities to [improve the accessibility of your web app](#). Automatic detection can only detect a subset of issues and does not guarantee the accessibility of your web app, so [manual testing](#) is also encouraged.

CONTRAST

▲

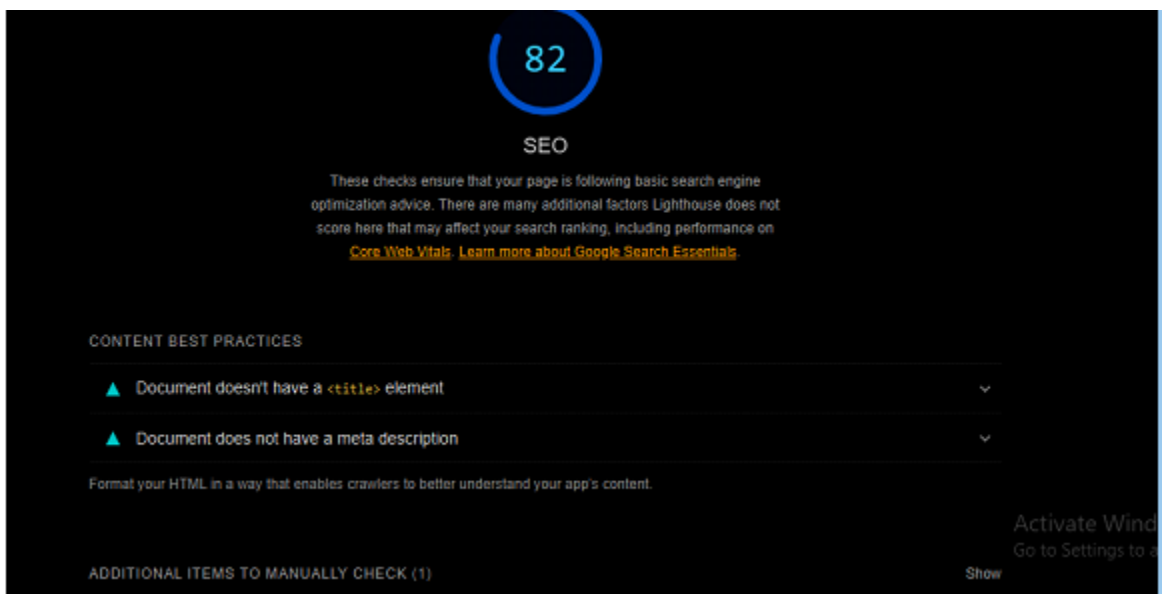
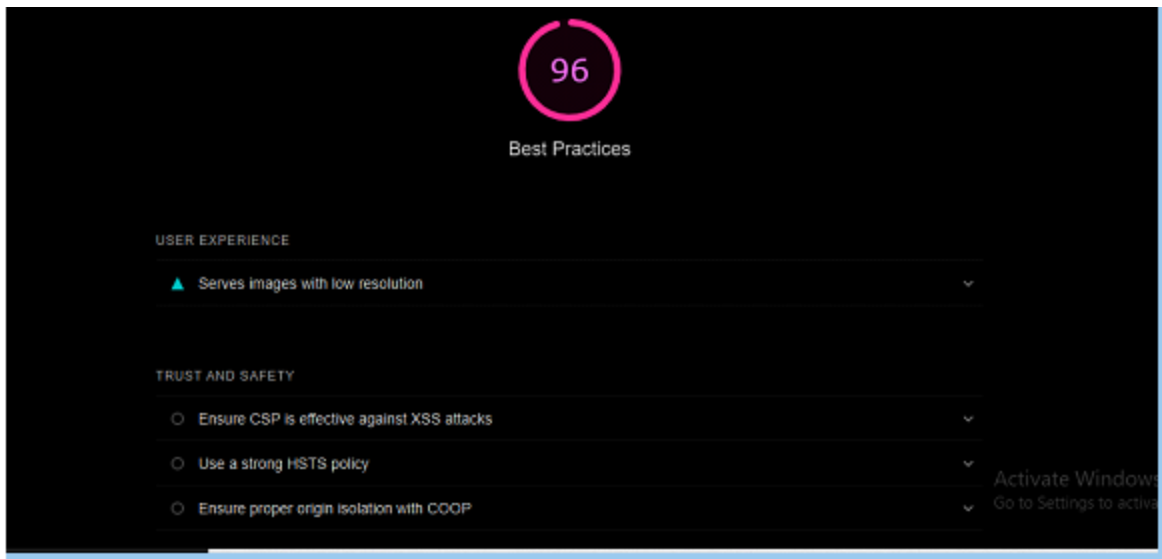
Background and foreground colors do not have a sufficient contrast ratio.

▼

These are opportunities to improve the legibility of your content.

NAMES AND LABELS

Activate
Go to Settings



Developer Resources

Network tab showing resource loads. The highlighted resource is:

Status	URL	Initiator	Total Bytes	Error
success	h.../node_modules_next_dist_compiled_107ce8.js.map	http://localhost...	390 375	
success	/node_modules_next_dist_compiled_react-dom_1156dc	http://localhost...	1 367 573	
success	http://loca.../node_modules_next_dist_d09de6.js.map	http://localhost...	130 798	
success	h.../node_modules_%40swc_helpers_js_00636a.js.map	http://localhost...	5 527	
success	http.../node_modules_next_dist_client_9bb038.js.map	http://localhost...	949 333	
success	http://localhost3000/_next/static/c.../_cb9de2.js.map	http://localhost...	105 793	
success	http://localhost3000/_next/static/c.../_f0b58d.js.map	http://localhost...	151 183	
success	http://local.../node_modules_next_dist_13451f.js.map	http://localhost...	299 890	
success	http://localhost3000/_next/.../src_app_760531.js.map	http://localhost...	12 933	
success	http://localhost3000.../node_modules_773301.js.map	http://localhost...	763 942	
success	/%5Bturbojson%5D_browser_dev_fm-client_c6d8d4_	http://localhost...	31 112	
success	http://localhost300.../src_app_globals_b80590.css.map	http://localhost...	34 317	

Performance monitor tab showing various metrics over time. The CPU usage graph is highlighted in green.

Metric	Value
CPU usage	0.1%
JS heap size	97 MB
DOM Nodes	515
JS event listeners	511
Documents	3
Document Frames	3
Layouts / sec	0
Style recalcs / sec	0

Security overview page showing a warning for a non-HTTPS secure origin.

Security overview

This page has a non-HTTPS secure origin.