

Day 5 - Testing and Backend Refinement

General E-Commerce

Objective:

The objective of this document is to ensure that the General E-commerce platform is fully tested, optimized, and ready for deployment. It focuses on testing all core functionalities, implementing robust error handling, and improving performance for a seamless user experience. The document also ensures cross-browser and device compatibility while maintaining strong security measures. Additionally, it provides structured documentation and a detailed testing report for review and future reference.

Product Listing:

- The product listing successfully displays products, showing essential details such as name and price.
- Products can be filtered based on categories, price range, colors, and sizes. Additionally, products can be sorted in multiple ways, including low to high, high to low, A to Z, and Z to A.
- The search functionality allows users to find products by validating search queries based on product names.

Filters

☐ Short
☐ Tshirt
☐ Hoodie
☐ Jeans
☐ Shirt

Price

Min: \$50Max: \$150

Color

Casual

Showing 1-10 of 0 Products Sort By: Select



LOOSE FIT BERMUDA SHORTS

★★★★ 4/5

\$78 16 20%



Black Striped T-Shirt

★★★★ 4/5

\$120



Classic Black Pullover Hoodie

★★★★ 4/5

\$128

http://localhost:3000/api/products

Save Share

GET http://localhost:3000/api/products Send

Params Authorization Headers (8) Body Scripts Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
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Body Cookies Headers (6) Test Results 200 OK 1.32 s 17.09 KB

JSON Preview Visualize

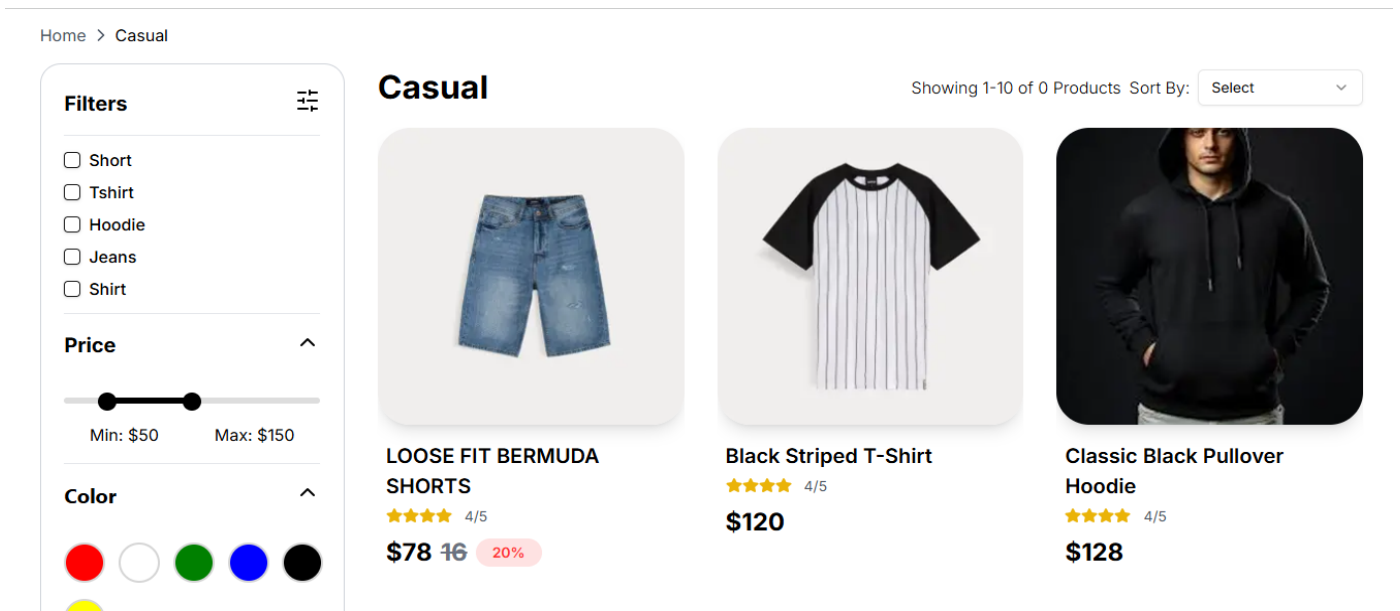
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2   "success": true,
3   "message": "success",
4   "data": [
5     {
51    },
52    {
53      "unitSold": 47,
54      "price": 170,
55      "_createdAt": "2025-01-19T22:06:33Z",
56      "_rev": "pNdFo@jzUh1upuRBM1bLEN",
57      "isNew": true,
58      "sizes": [
59        "L",
60        "M",
61        "XXL",
62        "XL"
63      ],
64    }
65  ]
66 }
```

Performance Optimization:

Installation Process:

- npm install -g lighthouse
- lighthouse http://localhost:3000: --view

Desktop View:




Mobile View

Home > Casual

Casual

Sort By:

Select



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BERMUDA SHORTS


★★★★★

4/5

\$78

16

20%




Black Striped T-Shirt

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4/5


\$120



Classic Black
Pullover Hoodie

★★★★★

4/5



Sleeve Stripe T-Shirt

★★★★★

4/5

×

Filters

☐ Short

☐ Tshirt

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☐ Shirt


Price


Min: \$50


Max: \$150


Color


















Size



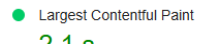
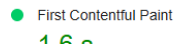




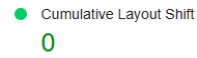
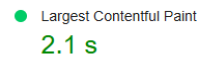
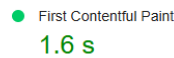
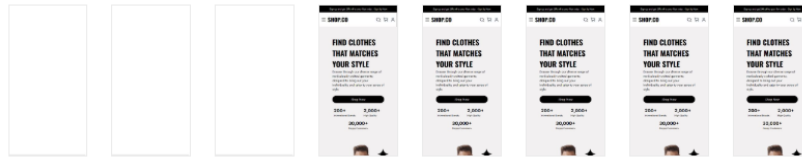




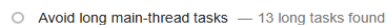
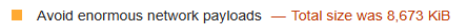
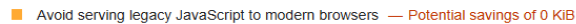
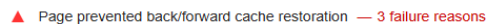
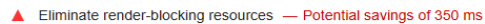
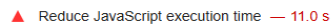
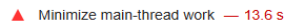
calculated directly from these metrics. See calculator.

[Expand view](#)

Expand view

 [View Treemap](#)

Show audits relevant to: **All** FCP LCP TBT CLS



Developer Resources:

Home > Casual
Showing 1-10 of 0 Products Sort By: Select

Casual

LOOSE FIT BERMUDA SHORTS

★★★★★ 4/5

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\$128

48 resources

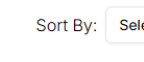
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success	/json;charset=utf-8;base64,ejJ2ZXJzaW9l...		3 895	
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Performance Monitor:

Home > Casual

Casual


Sort By: Select



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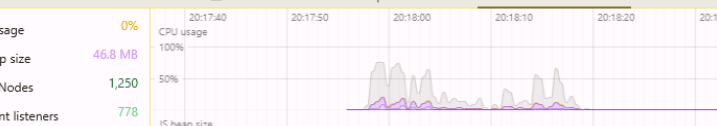
\$120





Console What's new AI assistance Autofill Developer resources Performance monitor X

Metric	Value
CPU usage	0%
JS heap size	46.8 MB
DOM Nodes	1,250
JS event listeners	778
Documents	2
Document Frames	2
Layouts / sec	0
Style recalcs / sec	0



Security:

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🔍🛒👤

Home > Casual


Casual

Sort By:



Select



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★★★★★ 4/5
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Security

Overview

Main origin

Reload to view details

Security overview

🔒🔍⚠️

This page has a non-HTTPS secure origin.

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Filter by URL and error

Load through website