Task 6 - Performance Testing
Application tested: Warsaw Sneaker Store
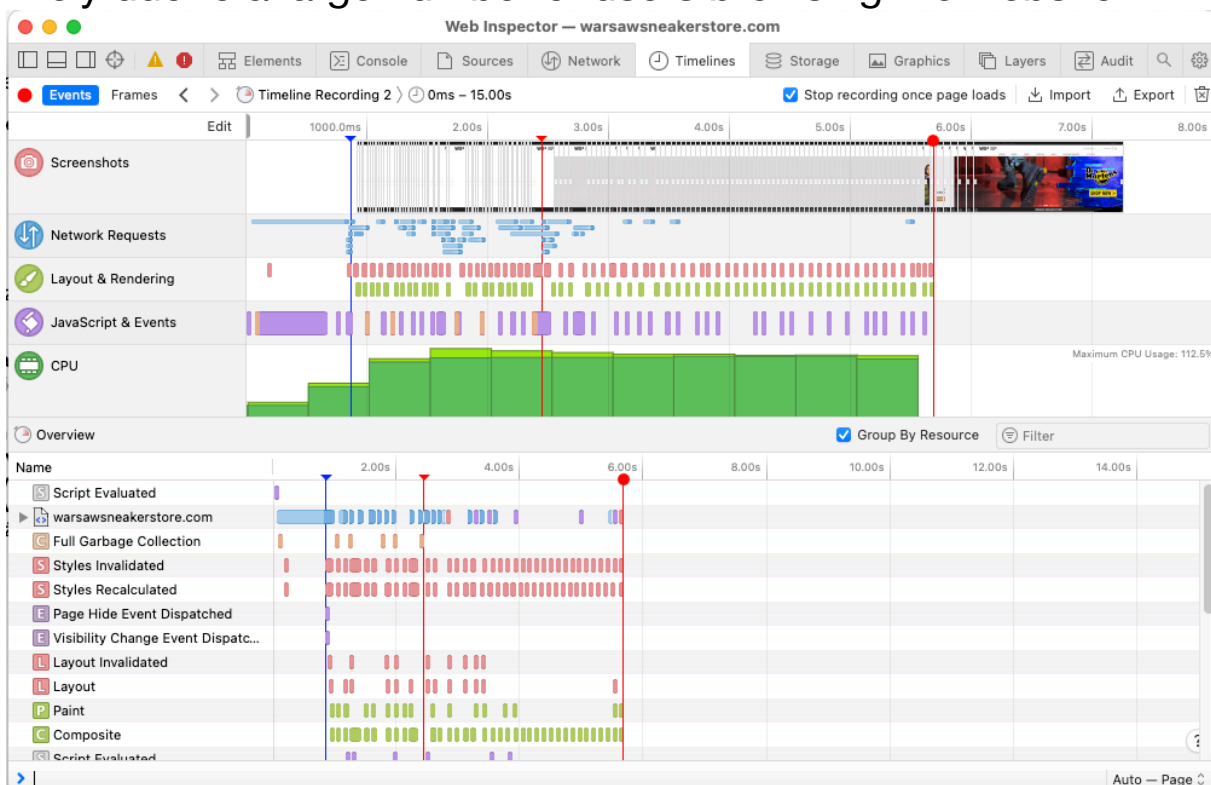Report creation date: 06.12.2022
Author: Paweł Kurzydło
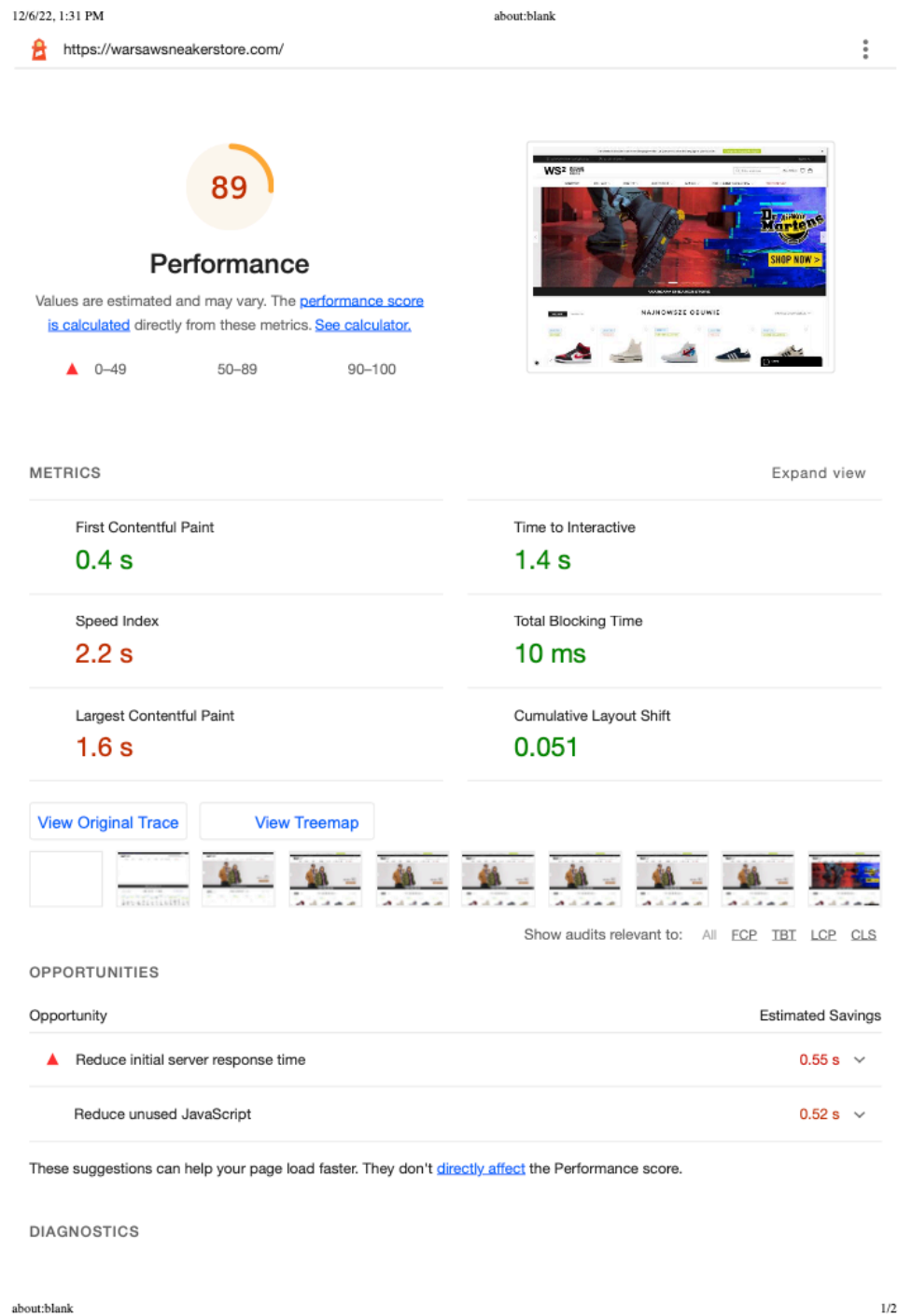

Tools used for performance testing:

1. Safari (Developer tools)
2. Lighthouse
3. GTmetrix

Tests were conducted using the developer tools in the Safari
browser. The total page loading time is 5 seconds. 650 ms is the
time it takes for the page to be called and the first content to be
displayed. When entering the phrase "Jordan" in the search bar,
the page verifies the connection security, which is indicated by a
message on the page, and the entire process takes 2.80 seconds,
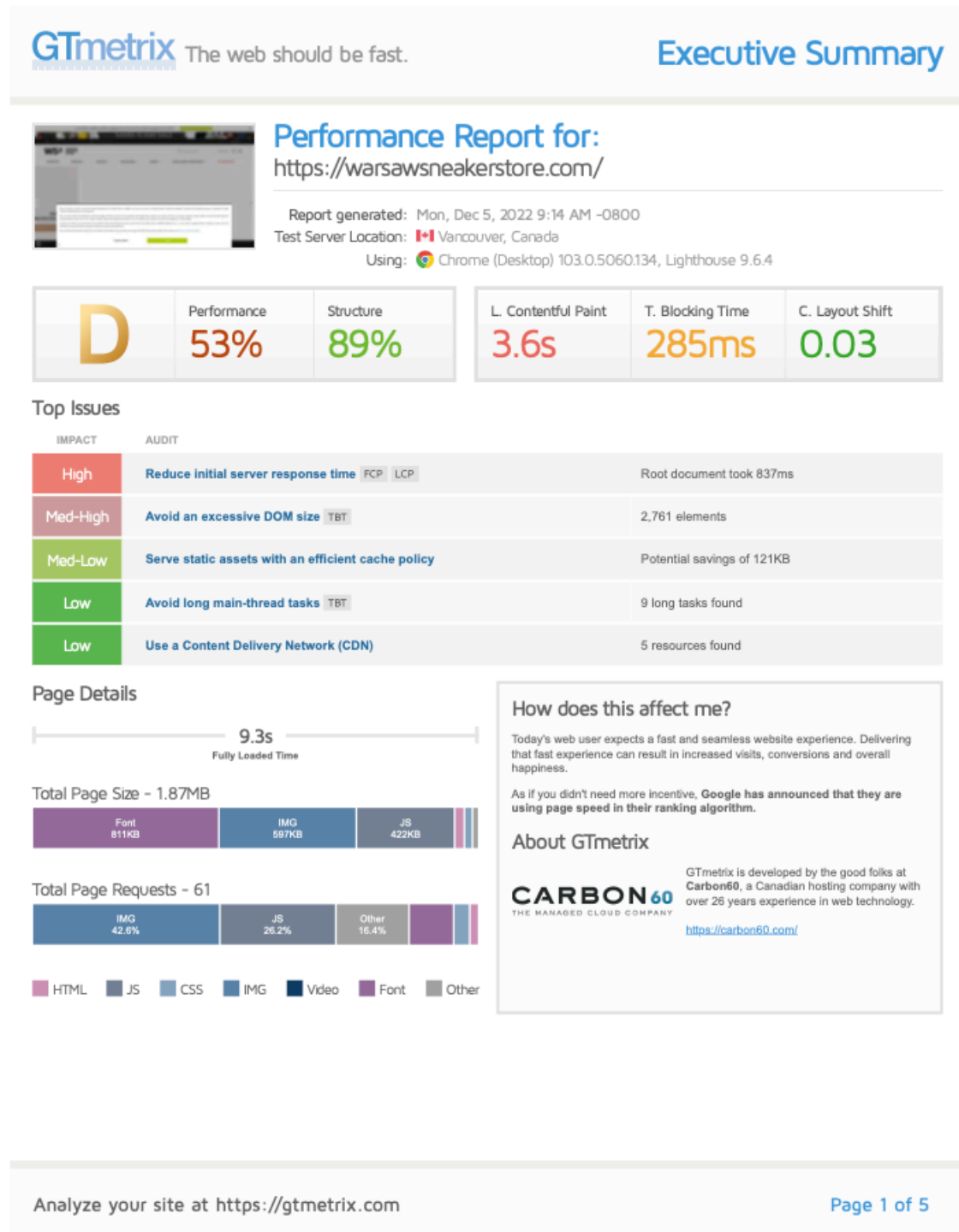with the message displayed in 350 ms.
In the afternoon, when I conducted further tests to take a
screenshot, the values increased by an average of 1/3. This is most
likely due to a large number of users browsing the website.

The performance score from Lighthouse analysis is 89. Although it is not a perfect result, the values are close to those presented by the developer tools, so it can be considered acceptable. Below is the report from the analyzer.

https://warsawsneakerstore.com/

89

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   Expand view

First Contentful Paint
0.4 s

Time to Interactive
1.4 s

Speed Index
2.2 s

Total Blocking Time
10 ms

Largest Contentful Paint
1.6 s

Cumulative Layout Shift
0.051

View Original Trace   View Treemap

Show audits relevant to: All   FCP   TBT   LCP   CLS

OPPORTUNITIES

Opportunity	Estimated Savings
▲ Reduce initial server response time	0.55 s ⌄
Reduce unused JavaScript	0.52 s ⌄

These suggestions can help your page load faster. They don't directly affect the Performance score.

DIAGNOSTICS

The last analyzer will be GTmetrix. According to this analysis, the total page load time is as high as 9.3 seconds. The first content is loaded in 1.5 seconds, and the first interaction for the user can occur in 3.4 seconds. These values, according to assumptions, may discourage a potential user from using the service.

GTmetrix The web should be fast.   Executive Summary

Performance Report for:
https://warsawsneakerstore.com/

Report generated: Mon, Dec 5, 2022 9:14 AM –0800
Test Server Location: Vancouver, Canada
Using: Chrome (Desktop) 103.0.5060.134, Lighthouse 9.6.4

D	Performance	Structure		L. Contentful Paint	T. Blocking Time	C. Layout Shift
	53%	89%		3.6s	285ms	0.03

Top Issues

IMPACT	AUDIT	
High	Reduce initial server response time FCP LCP	Root document took 837ms
Med-High	Avoid an excessive DOM size TBT	2,761 elements
Med-Low	Serve static assets with an efficient cache policy	Potential savings of 121KB
Low	Avoid long main-thread tasks TBT	9 long tasks found
Low	Use a Content Delivery Network (CDN)	5 resources found

Page Details

9.3s
Fully Loaded Time

Total Page Size – 1.87MB

Font 811KB	IMG 597KB	JS 422KB

Total Page Requests – 61

IMG 42.6%	JS 26.2%	Other 16.4%

HTML JS CSS IMG Video Font Other

How does this affect me?

Today's web user expects a fast and seamless website experience. Delivering that fast experience can result in increased visits, conversions and overall happiness.

As if you didn't need more incentive, **Google has announced that they are using page speed in their ranking algorithm.**

About GTmetrix

CARBON 60
THE MANAGED CLOUD COMPANY

GTmetrix is developed by the good folks at **Carbon60**, a Canadian hosting company with over 26 years experience in web technology.

https://carbon60.com/

| 0.7s | 1.5s | 2.2s | 3s | 3.7s | 4.5s | 5.2s | 6s | 6.7s | 7.5s | 8.2s | 9s |

TTFB: 875ms
Redirect: 0ms
Connect: 37ms
Backend: 838ms

Onload Time: 3.3s

Fully Loaded Time: 9.3s

Time to Interactive: 3.4s

Largest Contentful Paint: 3.6s

First Contentful Paint: 1.5s

Performance Metrics

First Contentful Paint

How quickly content like text or images are painted onto your page. A good user experience is 0.9s or less.

Longer than recommended

1.5s

Time to Interactive

How long it takes for your page to become fully interactive. A good user experience is 2.5s or less.

Longer than recommended

3.4s

Speed Index

How quickly the contents of your page are visibly populated. A good user experience is 1.3s or less.

Much longer than recommended

4.7s

Total Blocking Time

How much time is blocked by scripts during your page loading process. A good user experience is 150ms or less.

Longer than recommended

285ms

Largest Contentful Paint

How long it takes for the largest element of content (e.g. a hero image) to be painted on your page. A good user experience is 1.2s or less.

Much longer than recommended

3.6s

Cumulative Layout Shift

How much your page's layout shifts as it loads. A good user experience is a score of 0.1 or less.

Good - Nothing to do here

0.03

Browser Timings

Redirect	0ms	Connect	37ms	Backend	838ms
TTFB	875ms	First Paint	1.5s	DOM Int.	1.5s
DOM Loaded	1.5s	Onload	3.3s	Fully Loaded	9.3s