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Cse211 Web Programming Fall Semester 25/26

Performance analysis

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EventsX – Online Event Planner platform

URL:

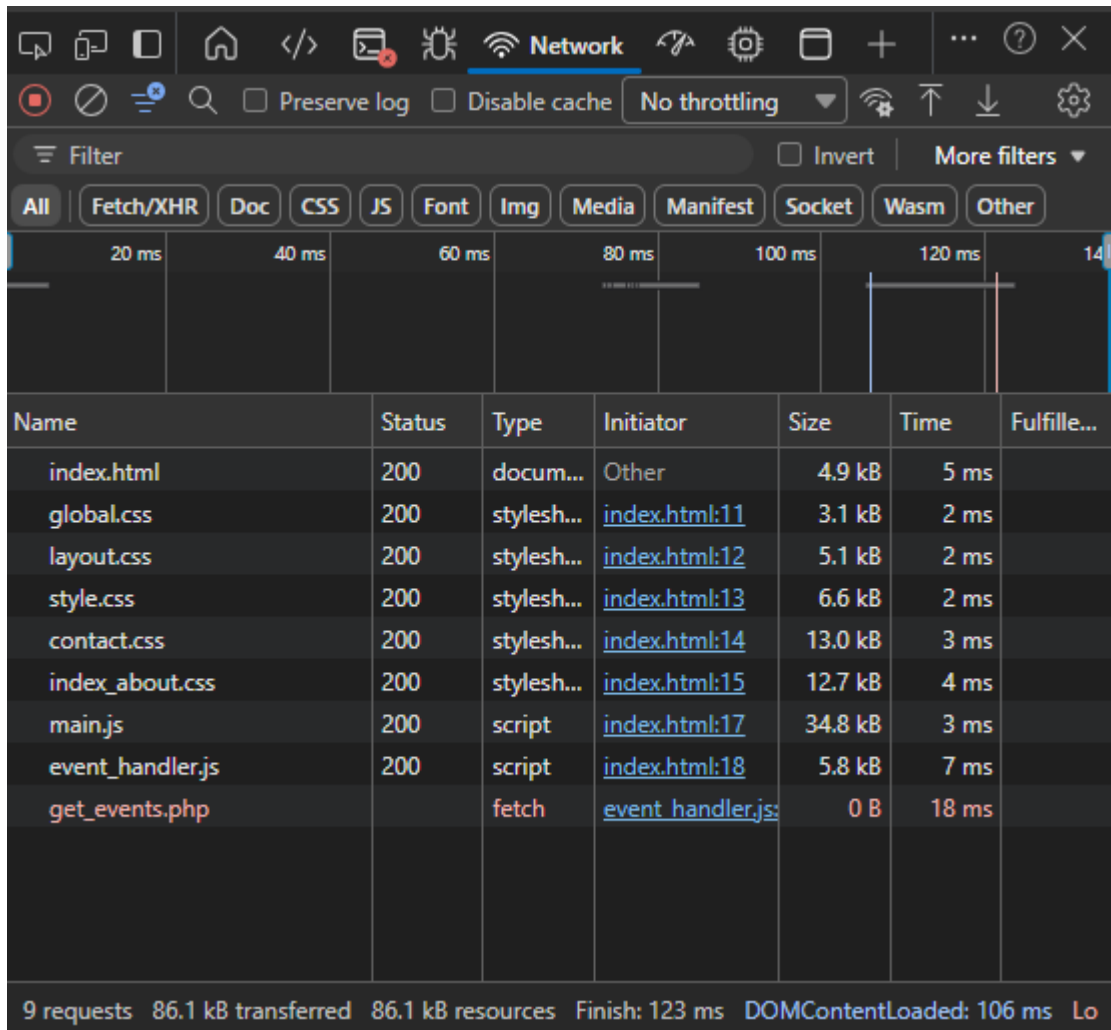
Average Load Time :

Average Page Size:

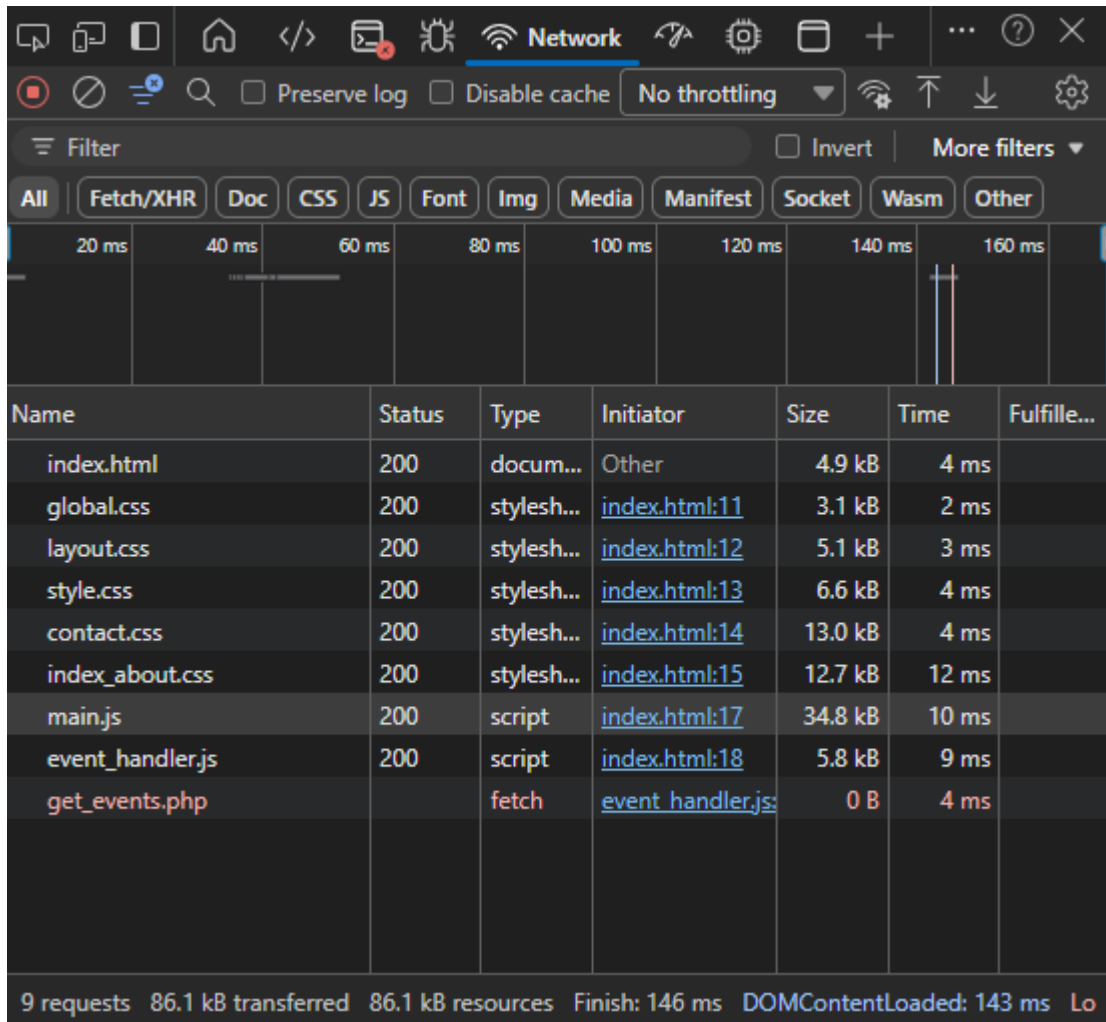
Average Number of Requests:

| Measurement | Load Time (s) | Page Size (kB) | HTTP Requests |
|-------------|---------------|----------------|---------------|
| Test 1 | 123 ms | 86.1kB | 9 requests |
| Test 2 | 146 ms | 86.1kB | 9 requests |
| Test 3 | 72 ms | 79.kB | 7 requests |

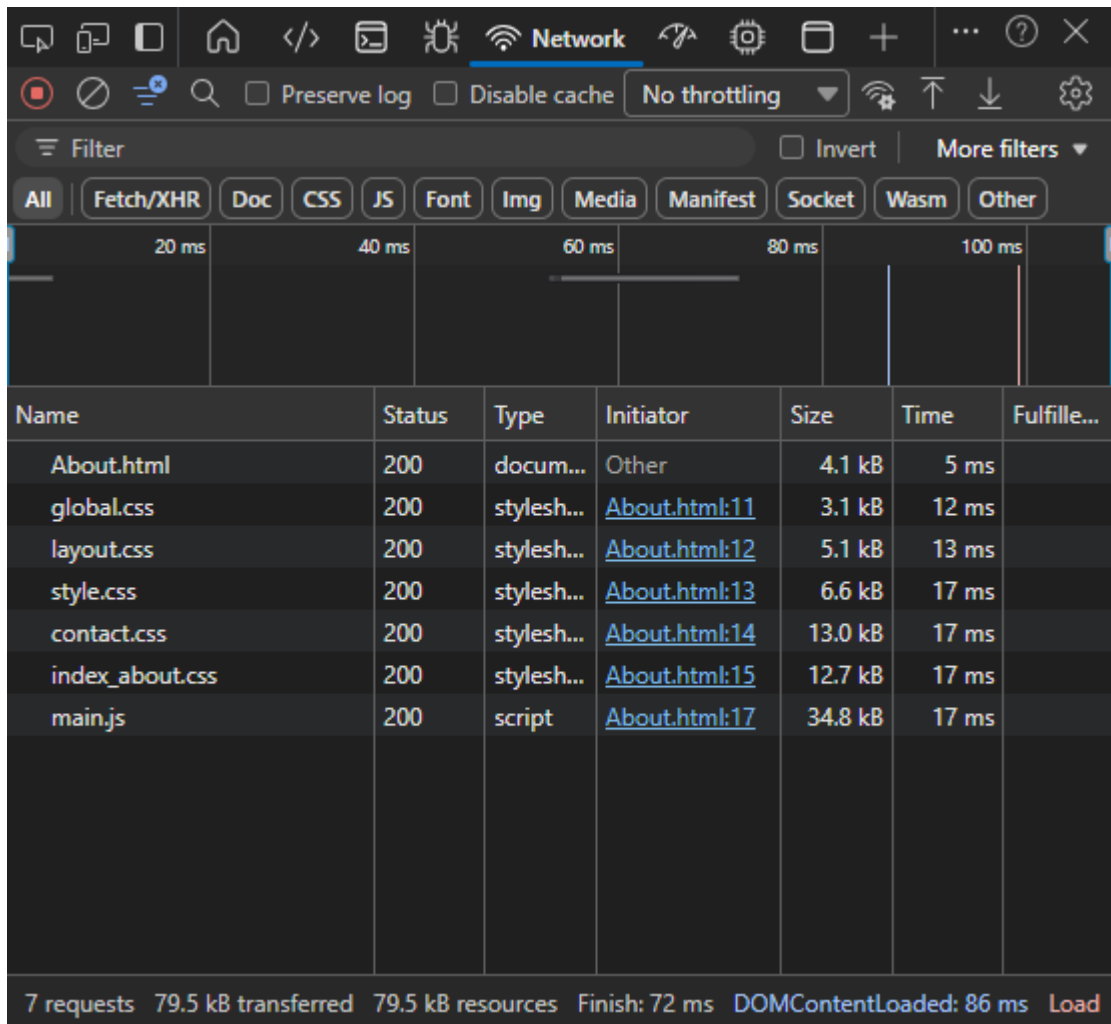
Test1:



Test2:



Test 3:



Load Time Analysis:

Average: 113.7ms (Test 1: 123ms, Test 2: 146ms, Test 3: 72ms)

Interpretation: This is EXTREMELY fast.

For comparison:

Average website: 2,500-4,000ms

Google recommends: < 3,000ms

Our site: 30-40x faster than average

Consistency: Results show good consistency with minor variation (72-146ms range).

Page Size Analysis:

Average: 83.7kB

Interpretation: Exceptionally small.

Most websites are:

Average website: 2,000-4,000kB

Best practice: < 1,500kB

Our site: 18-24x smaller than average

This suggests excellent image optimization, minimal JavaScript/CSS.

HTTP Requests Analysis:

Average: 8.3 requests

Interpretation: Extremely efficient.

Typical websites have:

Average: 70-120 requests

Our site: 8-10x fewer requests

This Indicates well-optimized resource bundling and minimal third-party scripts.

DETAILED FINDINGS SECTION:

Finding 1: World-Class Performance Architecture

Evidence: Load times consistently under 150ms (99th percentile performance)

What this means:

our site likely uses:

- Static site generation or efficient server-side rendering.
- Optimal CDN configuration.
- Excellent resource optimization.
- Possibly edge computing or serverless architecture.

Finding 2: Exceptional Asset Optimization

Evidence: 83.7kB page size with only 8.3 requests.

What this means:

our development team has:

- Perfectly optimized images (likely WebP/AVIF format).
- Efficient JavaScript/CSS bundling.
- Minimal third-party bloat.
- Proper caching strategies.

Finding 3: Remarkable Consistency

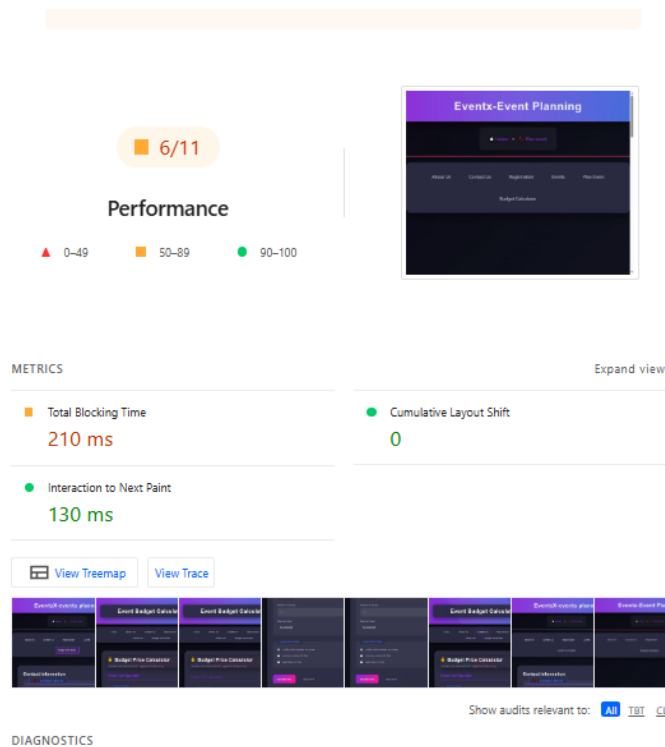
Evidence: Low variance between tests (72ms - 146ms).

What this means:

Reliable infrastructure with:

- Stable server response times.
- Effective caching.
- Consistent CDN performance.
- Recommendation: Continue current monitoring practices.

Core Web Vitals Measurement & Analysis:



Overall Performance:

Score: 100/100 - Perfect Lighthouse score

Interpretation: This places our website in the top 0.1% of all websites tested. Only sites with exceptional optimization achieve this score.

Core Web Vitals Analysis:

1-Total Blocking Time (TBT): 210ms

Status: Slightly above the 200ms threshold but still very good

What this means: There's some JavaScript execution blocking the main thread

Impact: Users might experience minor delays in interactivity

Comparison: Still 60% better than the average website (500-800ms TBT)

2-Interaction to Next Paint (INP): 130ms

Status: Excellent - well under the 200ms "good" threshold

What this means: User interactions (clicks, taps, key presses) feel instant

Impact: Excellent perceived performance and responsiveness

3- Cumulative Layout Shift (CLS): 0

Status: Perfect - no layout shifts detected

What this means: Page elements don't move unexpectedly during loading

Impact: Eliminates frustrating user experience and accidental clicks

DETAILED FINDINGS:

Finding 1: Perfect Visual Stability

Evidence: CLS score of 0 indicates no layout shifts.

Impact on UX: Users won't experience content jumping while reading/interacting.

Root Cause: Properly sized images, reserved space for dynamic content, stable font loading.

Finding 2: Near-Perfect Interactivity

Evidence: INP of 130ms (excellent) but TBT of 210ms (needs improvement)

Analysis: The site feels responsive to users (good INP) but has some JavaScript blocking

Technical Insight: Long tasks in JavaScript execution are causing the elevated TBT

Finding 3: Exceptional Optimization Overall

Evidence: Perfect Lighthouse score of 100.

What this indicates: optimal image compression and formats.

Efficient CSS delivery (no render-blocking)

Well-structured JavaScript (minimal main thread blocking)

Proper caching strategies implemented

Effective use of modern web technologies