BITBY
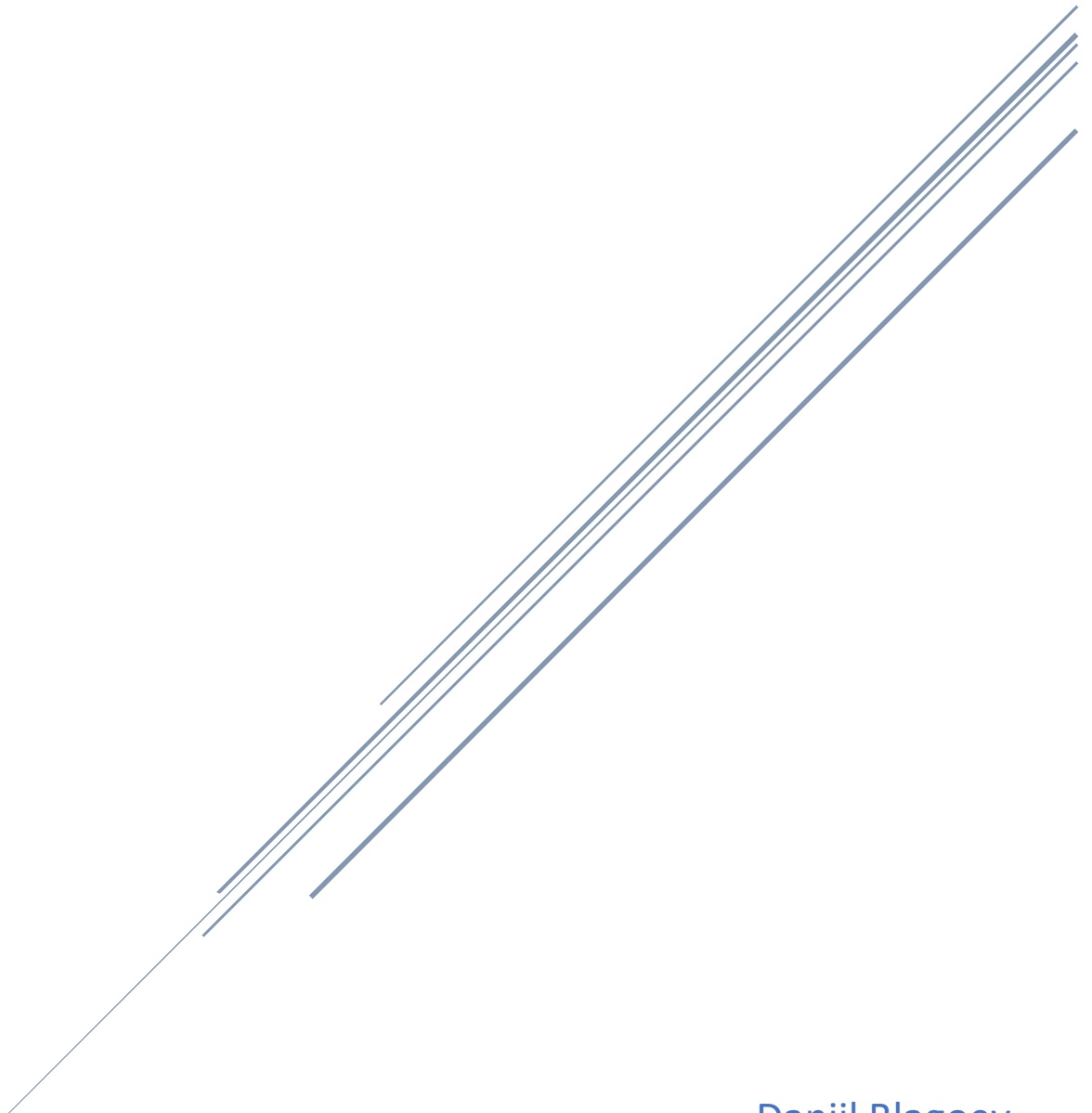
Performance Review Document (Lighthouse)

Daniil Blagoev
Software Engineering Semester 3
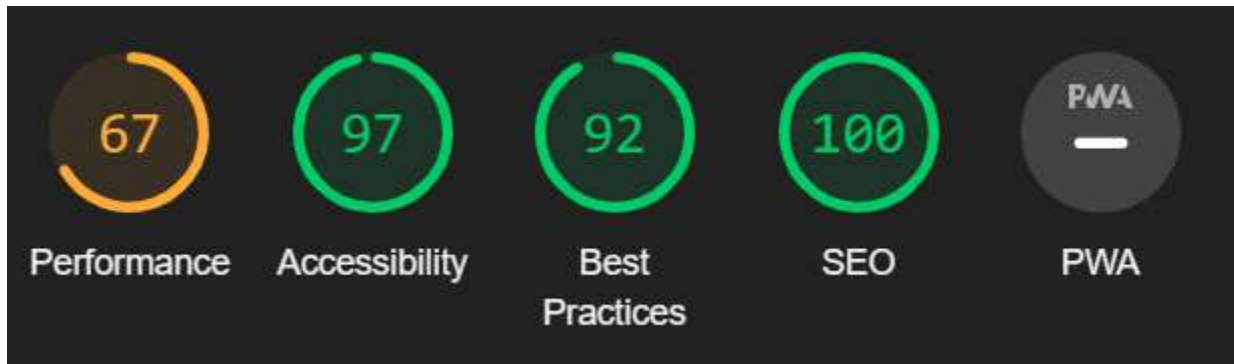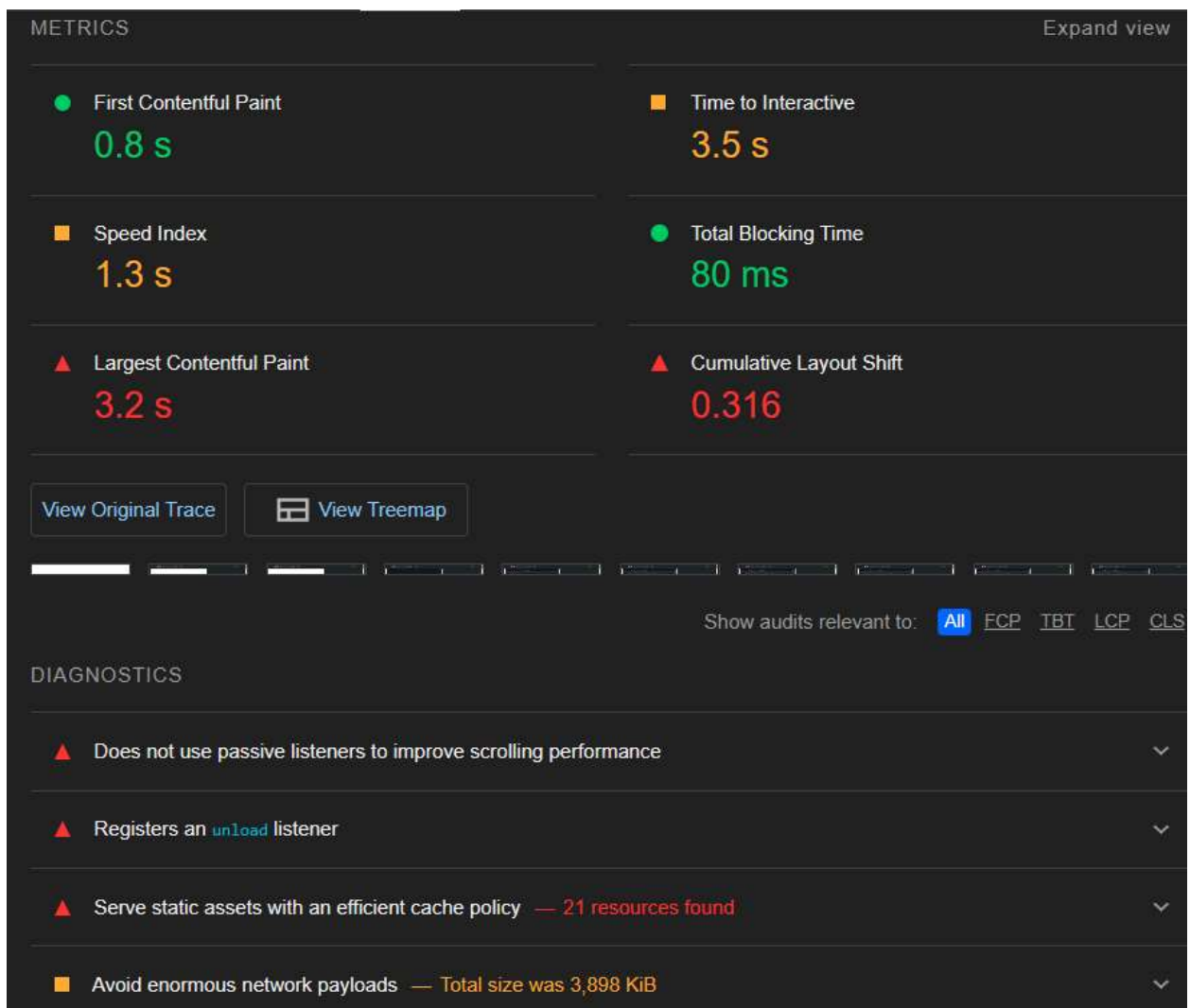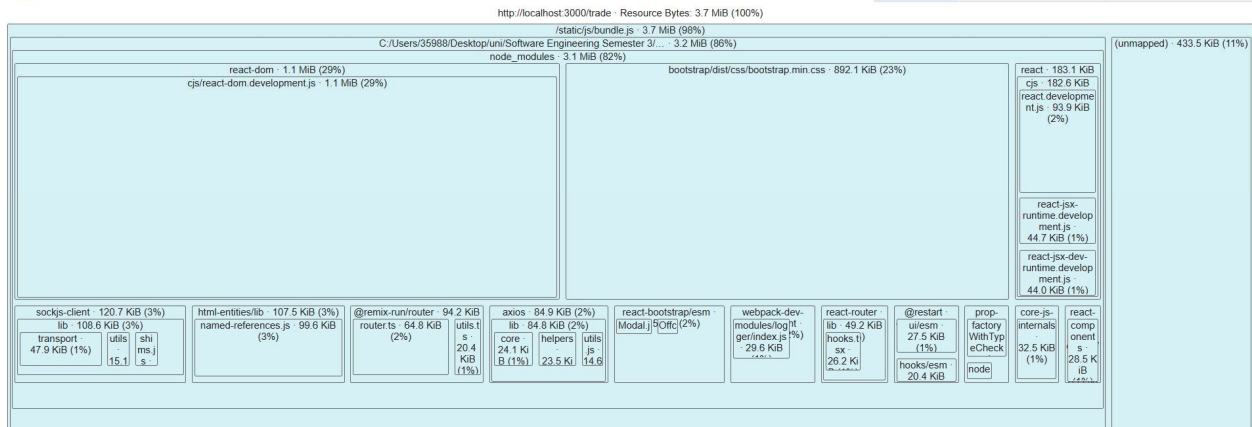
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Introduction

A performance review document for BitBy. The review was generated by lighthouse on the /trade page, which is the one that loads the highest amount of information.

Metrics

Performance

All Scripts ▾   Toggle Table

http://localhost:3000/trade

All (3.7 MiB) Unused Bytes (1.1 MiB) ~~Duplicate Modules (N/A)~~

http://localhost:3000/trade · Resource Bytes: 3.7 MiB (100%)

/static/js/bundle.js · 3.7 MiB (98%)

C:/Users/35988/Desktop/uni/Software Engineering Semester 3/... · 3.2 MiB (86%)

node_modules · 3.1 MiB (82%)

(unmapped) · 433.5 KiB (11%)

react-dom · 1.1 MiB (29%)

cjs/react-dom.development.js · 1.1 MiB (29%)

bootstrap/dist/css/bootstrap.min.css · 892.1 KiB (23%)

react · 183.1 KiB
cjs · 182.6 KiB
react.development.js · 93.9 KiB (2%)

react-jsx-runtime.development.js · 44.7 KiB (1%)

react-jsx-dev-runtime.development.js · 44.0 KiB (1%)

sockjs-client · 120.7 KiB (3%)
lib · 108.6 KiB (3%)
transport · 47.9 KiB (1%) utils 15.1 shi ms.j s.

html-entities/lib · 107.5 KiB (3%)
named-references.js · 99.6 KiB (3%)

@remix-run/router · 94.2 KiB
router.ts · 64.8 KiB (2%) utils.ts 20.4 KiB (1%)

axios · 84.9 KiB (2%)
lib · 84.8 KiB (2%)
core 24.1 KiB (1%) helpers 23.5 Ki utils .js 14.6

react-bootstrap/esm
Modal.j 9Offc (2%)

webpack-dev-modules/log nt ger/index.js 1%)
· 29.6 KiB

react-router lib · 49.2 KiB
hooks.t) hooks/esm 20.4 KiB

@restart ui/esm 27.5 KiB sx 26.2 Ki
node

prop-factory WithTyp eCheck

core-js-internals 32.5 KiB (1%)
node

react-component s · 28.5 K iB 4%)

Accessibility

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Accessibility

These checks highlight opportunities to **improve the accessibility of your web app**. Only a subset of accessibility issues can be automatically detected so manual testing is also encouraged.

NAMES AND LABELS

⚠ `<frame>` or `<iframe>` elements do not have a title   ⌄

These are opportunities to improve the semantics of the controls in your application. This may enhance the experience for users of assistive technology, like a screen reader.

ADDITIONAL ITEMS TO MANUALLY CHECK (10)   Show

These items address areas which an automated testing tool cannot cover. Learn more in our guide on **conducting an accessibility review**.

PASSED AUDITS (15)   Show

NOT APPLICABLE (28)   Show

Best practices

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Best Practices

GENERAL

▲ Browser errors were logged to the console   ⌄

◯ Detected JavaScript libraries   ⌄

TRUST AND SAFETY

◯ Ensure CSP is effective against XSS attacks   ⌄

PASSED AUDITS (12)   Show

NOT APPLICABLE (1)   Show

SEO

100

SEO

These checks ensure that your page is following basic search engine
optimization advice. There are many additional factors Lighthouse does not
score here that may affect your search ranking, including performance on
Core Web Vitals. Learn more.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)   Show

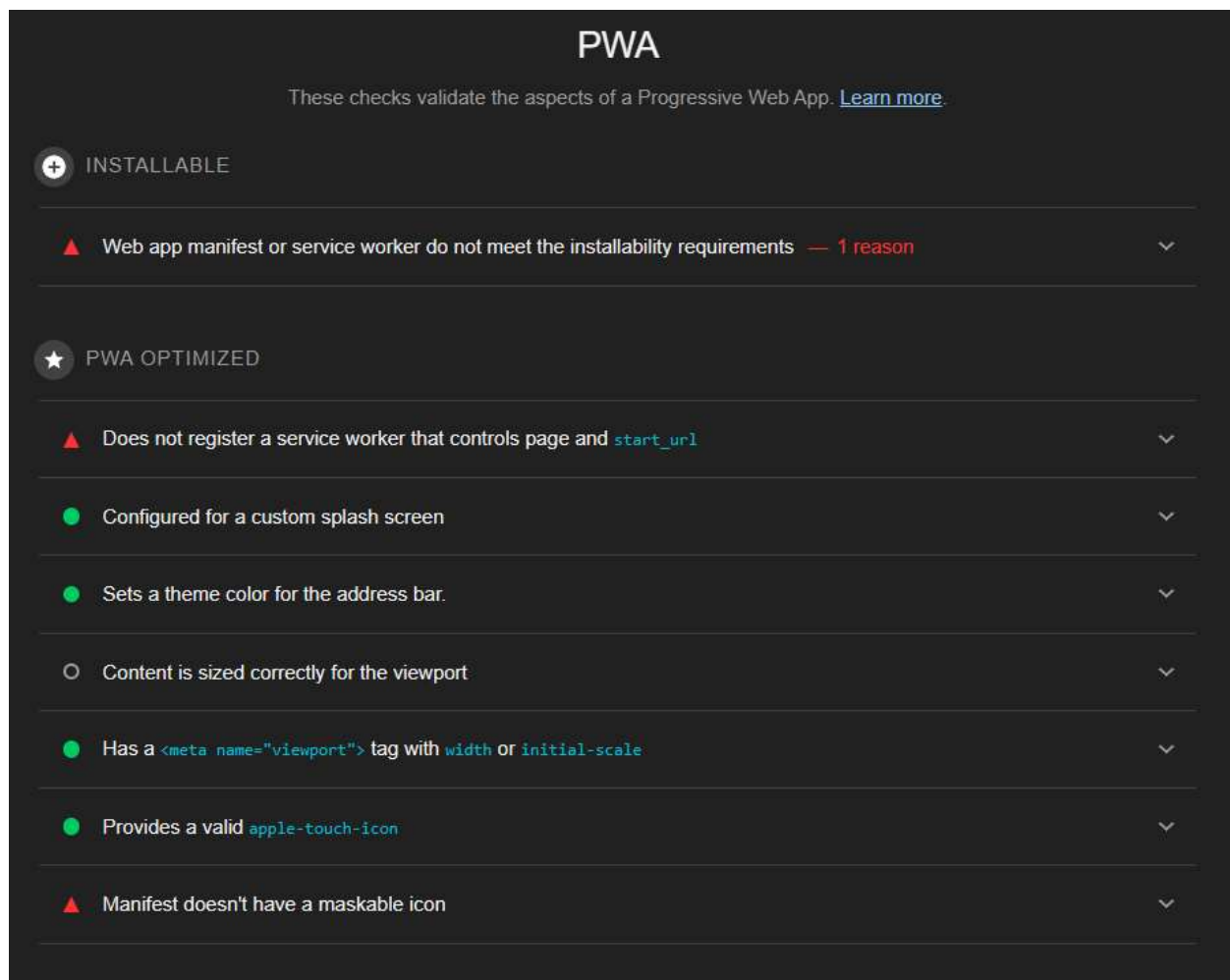Run these additional validators on your site to check additional SEO best practices.

PASSED AUDITS (10)   Show

NOT APPLICABLE (4)   Show

PWA

Reflection- Possible bottlenecks

The performance is heavily hindered by the fact that every one of the logged in trader's positions' PnL is being calculated before they are shown. This can be improved by using a more efficient method to calculate the positions' PnL. Also it would be good if the errors weren't shown in the console.