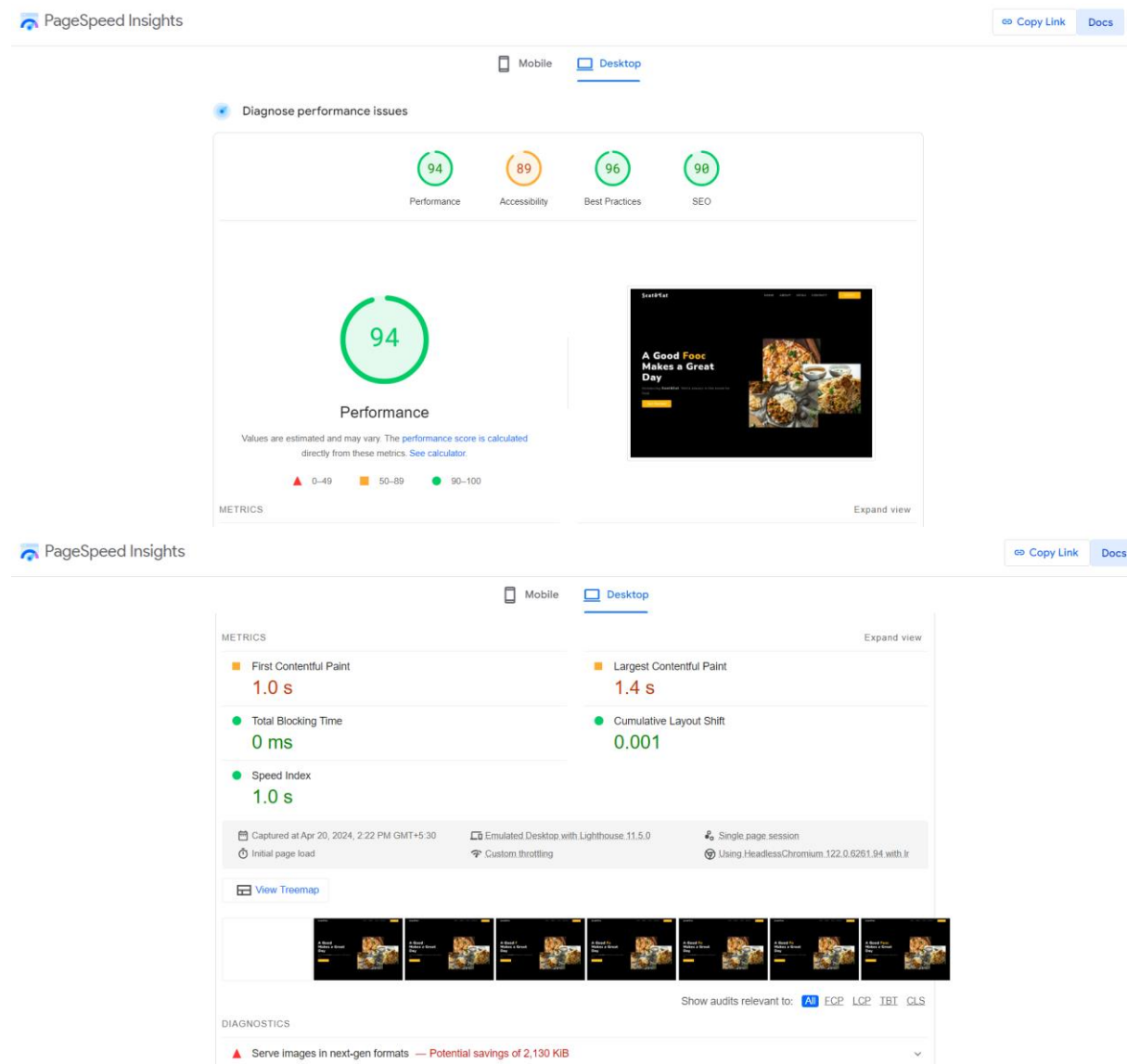# Web Technology Lab-10

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Roll No: 22mc3032

Branch: Mathematics and Computing

Task 1: Web page performance analysis (Using online tools like Lighthouse)

Mobile   Desktop

DIAGNOSTICS

▲ Serve images in next-gen formats — Potential savings of 2,130 KiB ⌄

▲ Eliminate render-blocking resources — Potential savings of 540 ms ⌄

▲ Properly size images — Potential savings of 3,136 KiB ⌄

▲ Largest Contentful Paint element — 1,410 ms ⌄

◼ Image elements do not have explicit `width` and `height` ⌄

◼ Serve static assets with an efficient cache policy — 19 resources found ⌄

◼ Efficiently encode images — Potential savings of 1,366 KiB ⌄

◼ Reduce unused CSS — Potential savings of 17 KiB ⌄

◼ Avoid enormous network payloads — Total size was 3,978 KiB ⌄

○ Avoid large layout shifts — 8 layout shifts found ⌄

○ Avoid non-composited animations — 1 animated element found ⌄

○ Initial server response time was short — Root document took 50 ms ⌄

○ Avoids an excessive DOM size — 193 elements ⌄

Mobile   Desktop

PASSED AUDITS (19)   Show

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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.

NAMES AND LABELS

▲ Links do not have a discernible name ⌄

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.

Mobile   Desktop

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Best Practices

USER EXPERIENCE

▲ Displays images with incorrect aspect ratio ⌄

TRUST AND SAFETY

○ Ensure CSP is effective against XSS attacks ⌄

PASSED AUDITS (13)   Show

NOT APPLICABLE (2)   Show

☐ Mobile   🖥 Desktop

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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 about Google Search Essentials.

CONTENT BEST PRACTICES

▲ Document does not have a meta description   ⌄

Format your HTML in a way that enables crawlers to better understand your app's content.

ADDITIONAL ITEMS TO MANUALLY CHECK (1)   Show

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

**Task 3: Submit all your previous Lab Assignments and Project on your GitHub repository.
Then submit your GitHub Repository link here.**

https://github.com/Shubhamkumartrichy/Web-Technology-Lab