

Comparison between Gatsby site and Plain JS site

(Based on Pagespeed Insights Score and Bundle Size)

1. Pagespeed Insight Score:

- The speed score is based on the lab data analyzed by **Lighthouse**.
- Tested with **Lighthouse 8.0.0** on **Chrome 90.0.4430.97**
- Analysis Time: 7th July, 2021

2. Bundle Size:

- The bundle size is calculated using the **Coverage** feature in **Chrome Dev Tools** which breaks down each size of resources used.

Based on Pagespeed Insight Score

(Higher is better)

The following table shows a comparison of pagespeed insight score for each page on both mobile device and desktop device built on top of Gatsby and Plain HTML/Js respectively.

Homepage

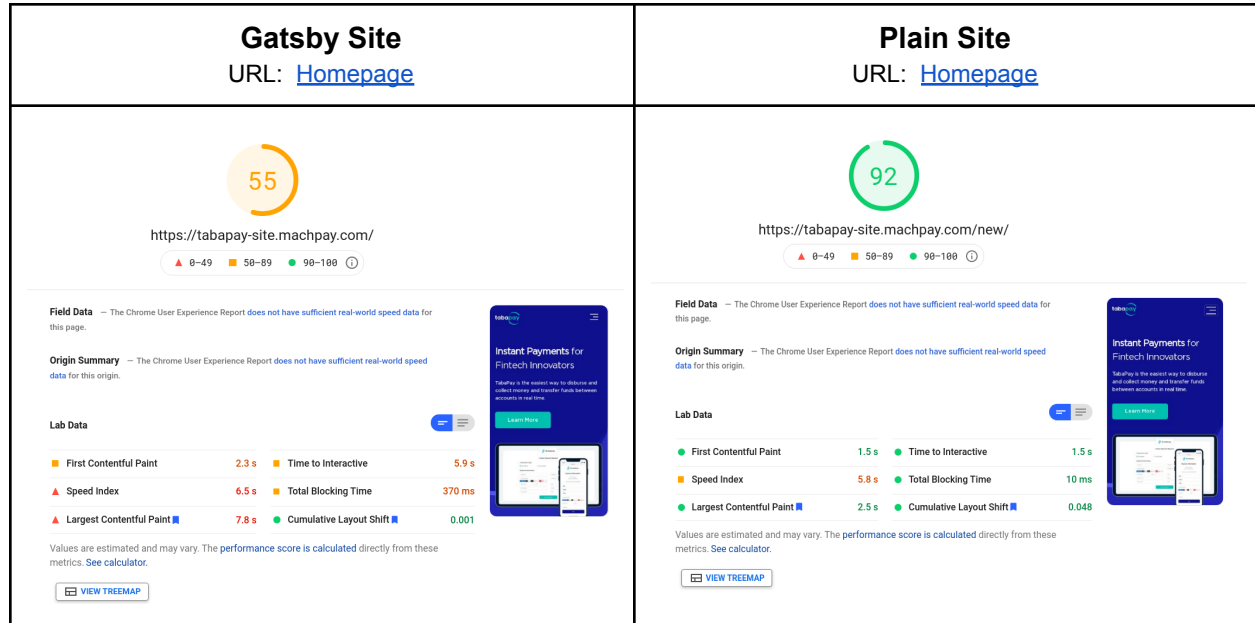


Fig 1: Comparison between Score on Mobile Device

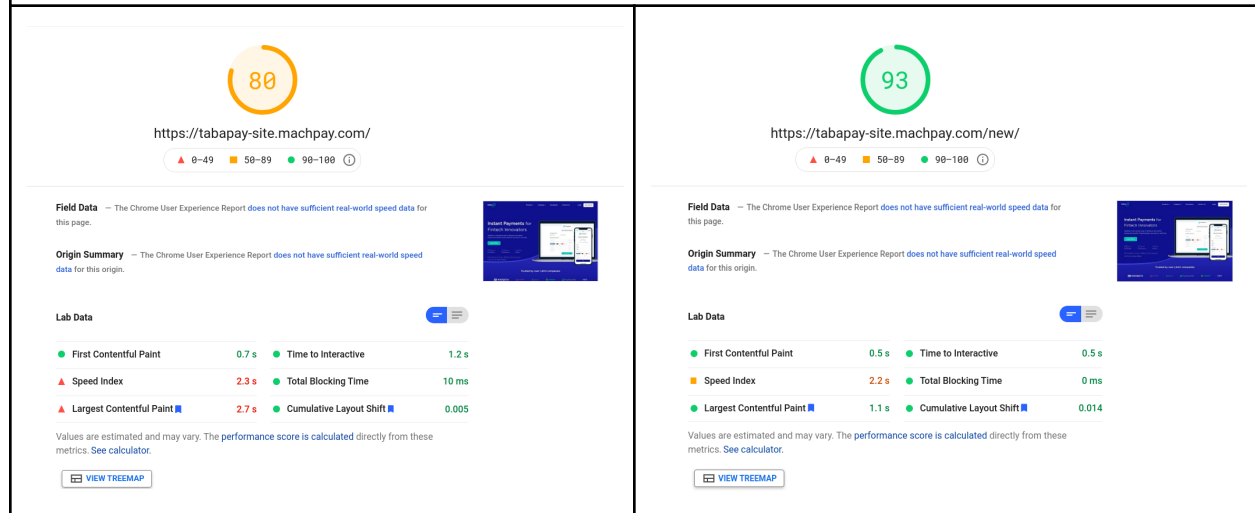


Fig 2: Comparison between Score on Desktop Device

About Us

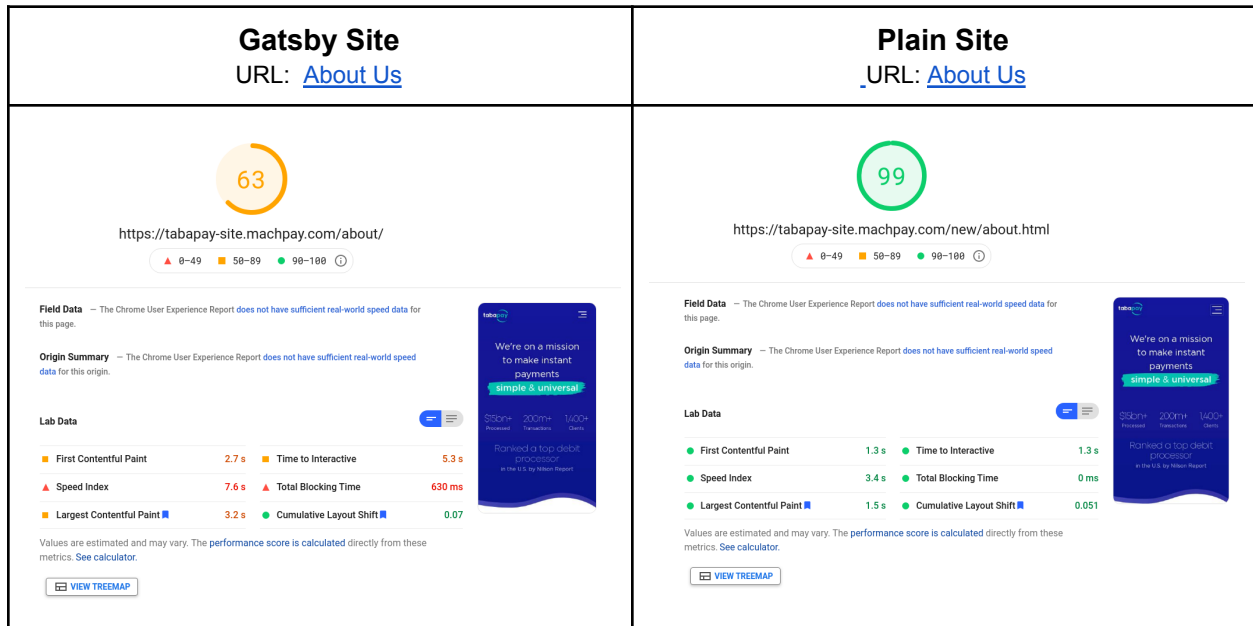


Fig 3: Comparison between Score on Mobile Device

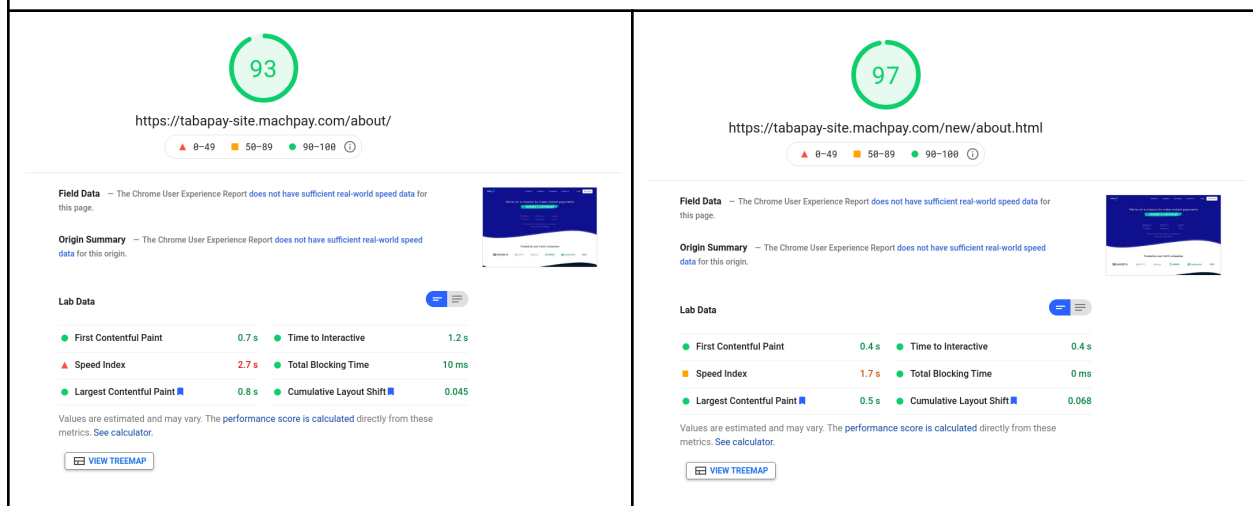


Fig 4: Comparison between Score on Desktop Device

Contact Us

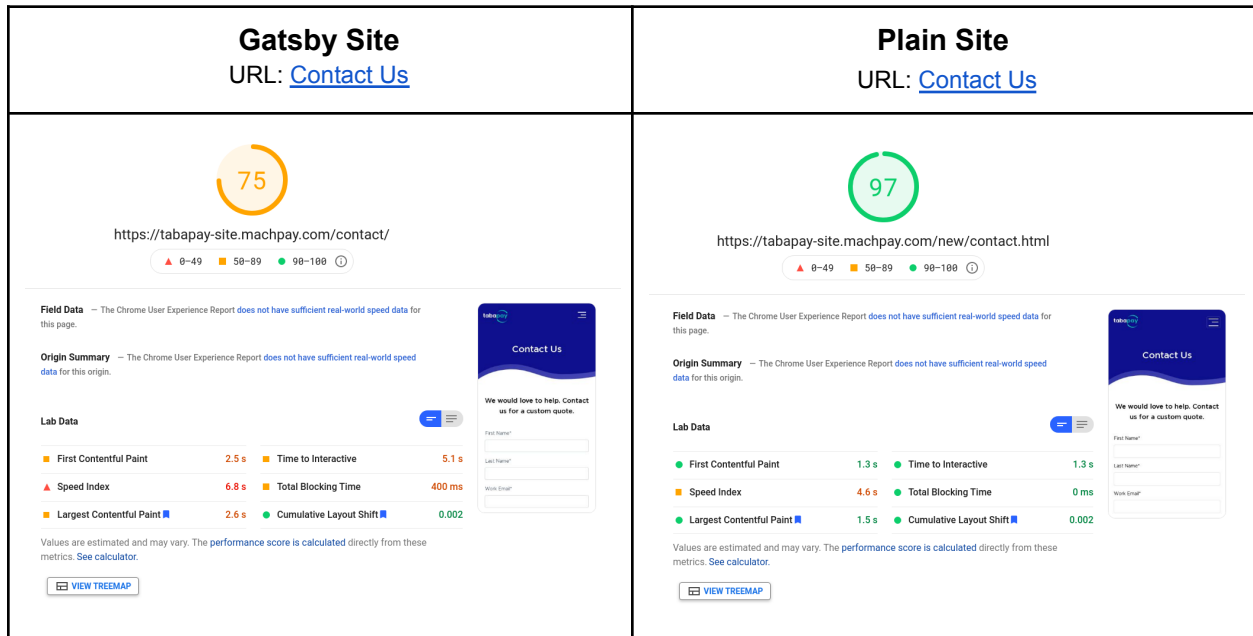


Fig 5: Comparison between Score on Mobile Device

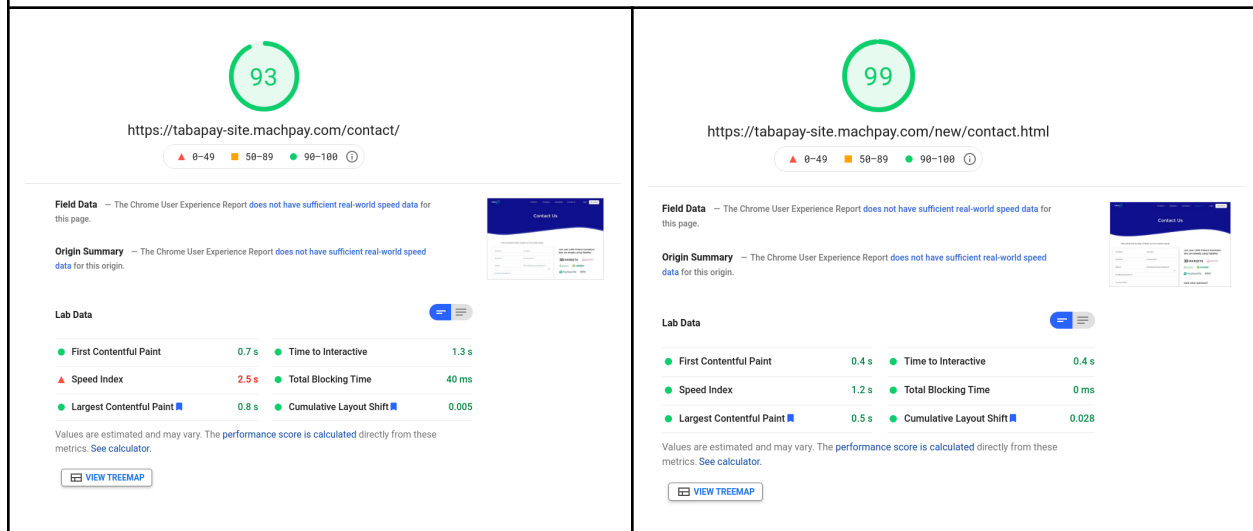


Fig 6: Comparison between Score on Desktop Device

Disbursements

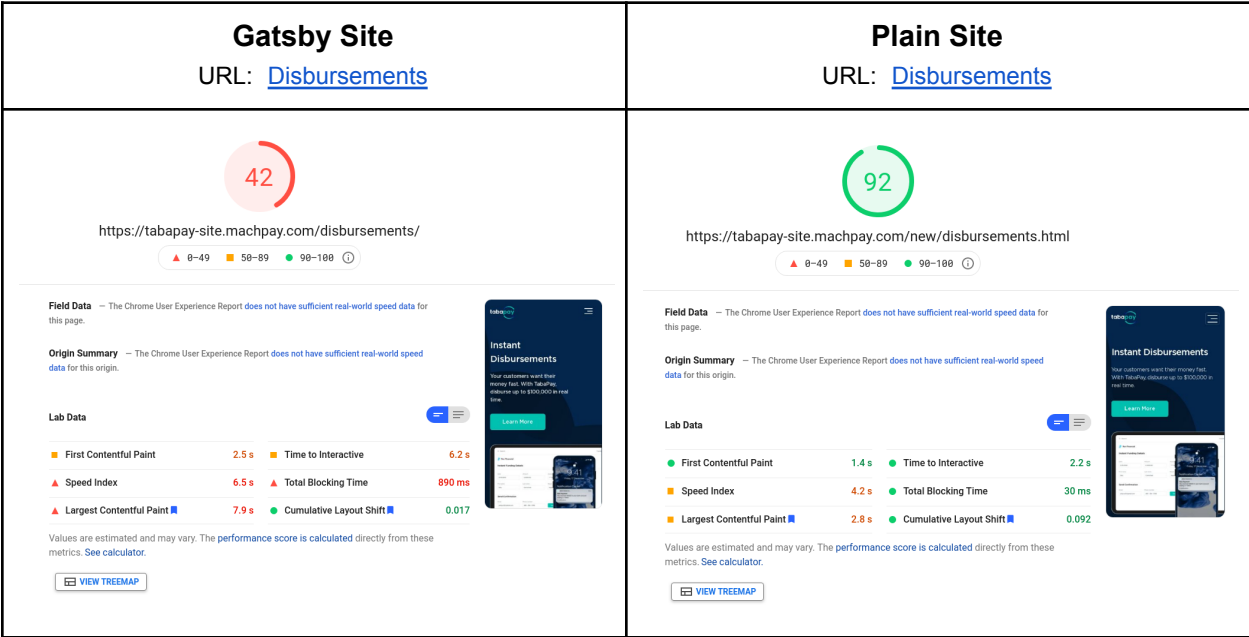


Fig 7: Comparison between Score on Mobile Device

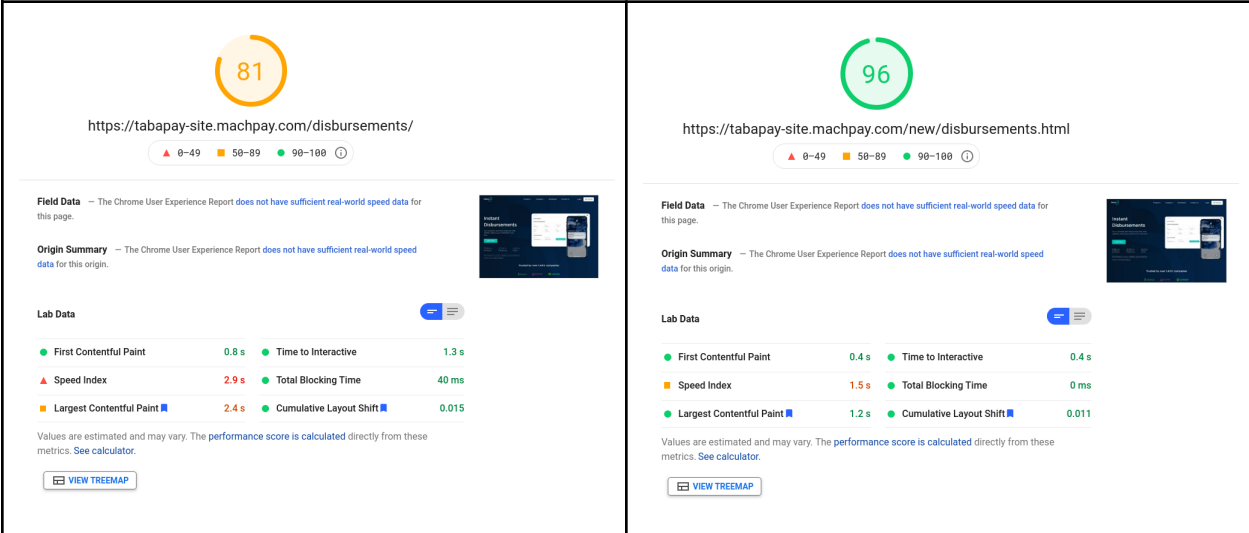


Fig 8: Comparison between Score on Desktop Device

Collections

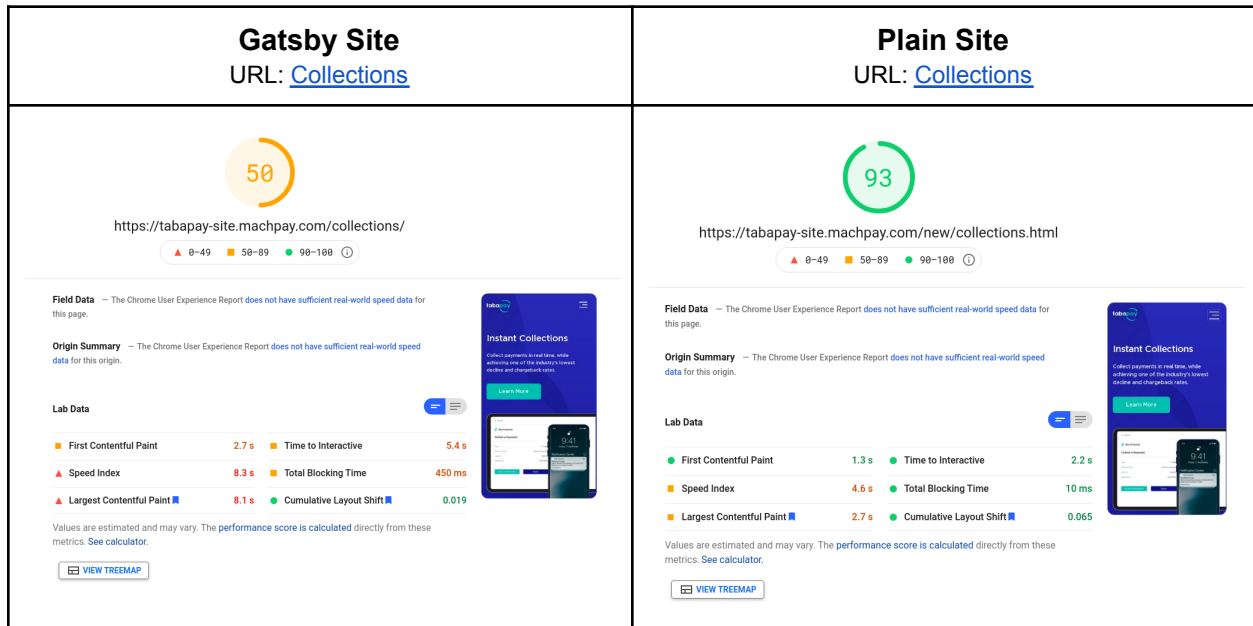


Fig 9: Comparison between Score on Mobile Device

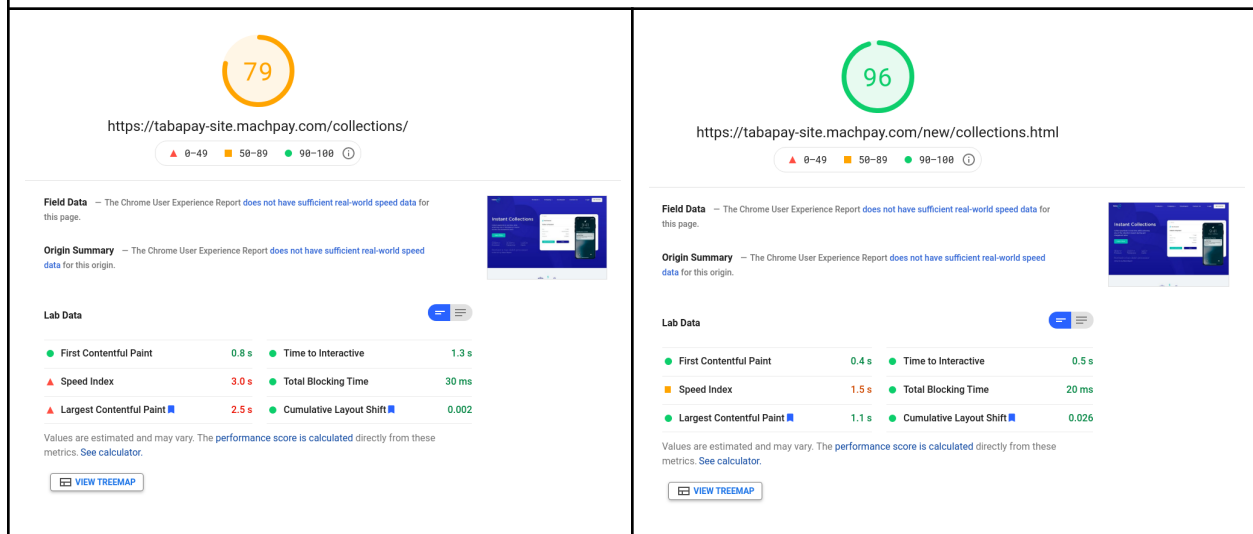


Fig 10: Comparison between Score on Desktop Device

Account Funding

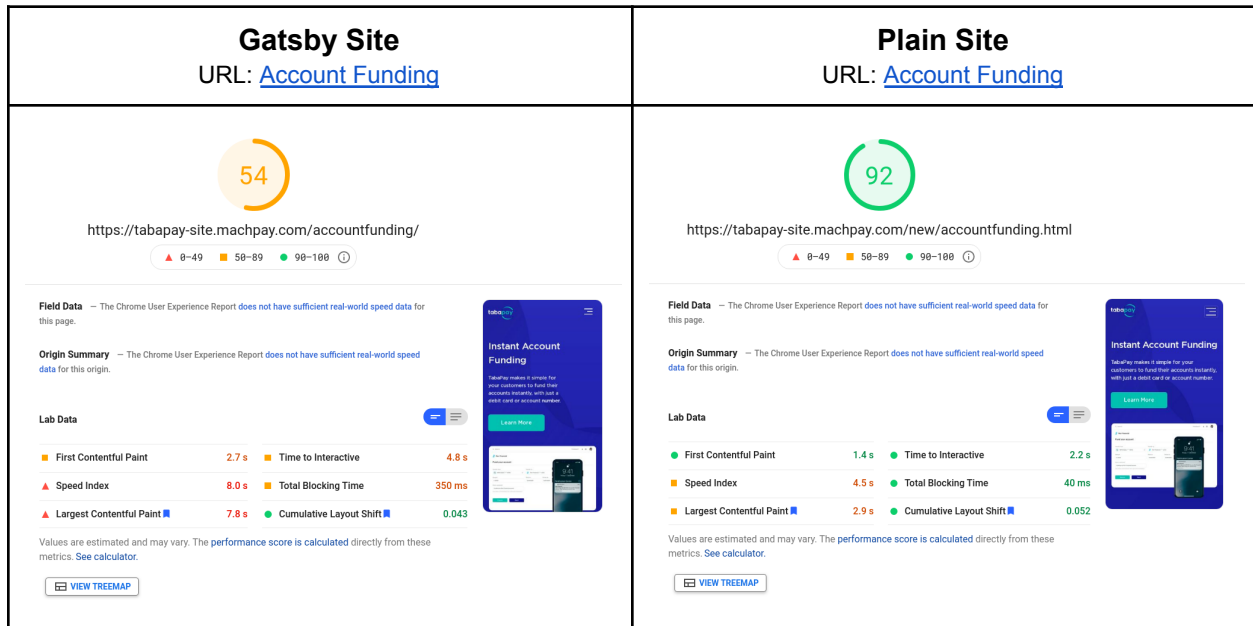


Fig 11: Comparison between Score on Mobile Device

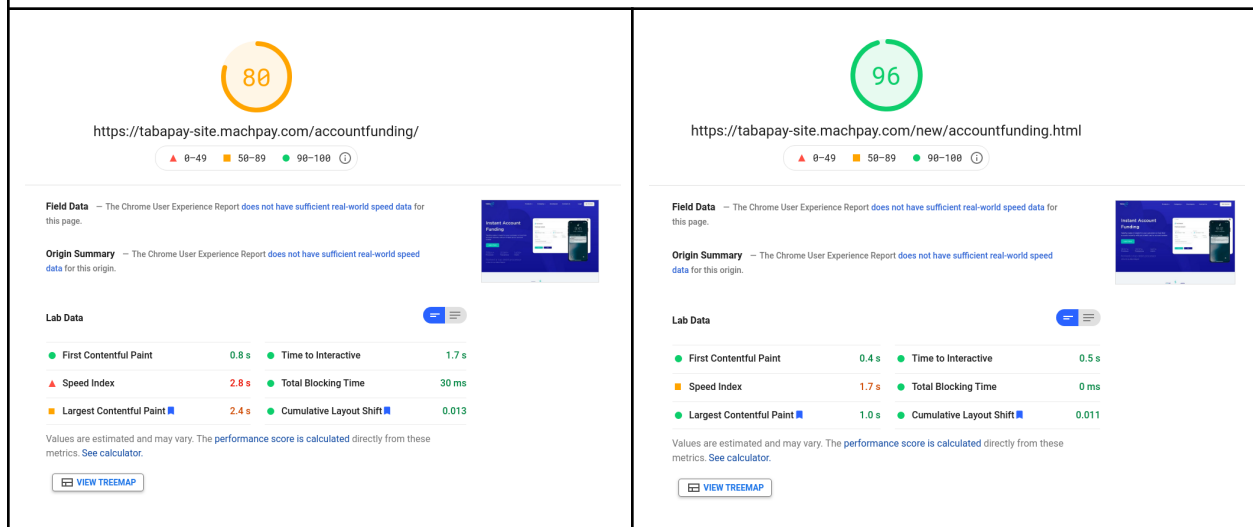


Fig 12: Comparison between Score on Desktop Device

Careers

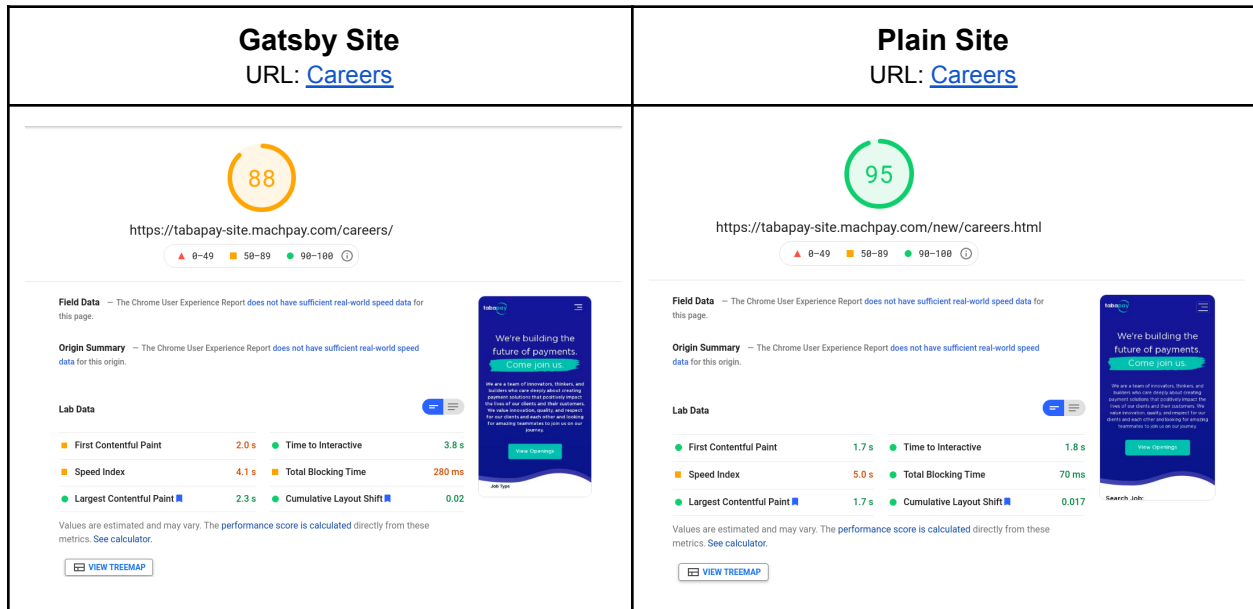


Fig 13: Comparison between Score on Mobile Device

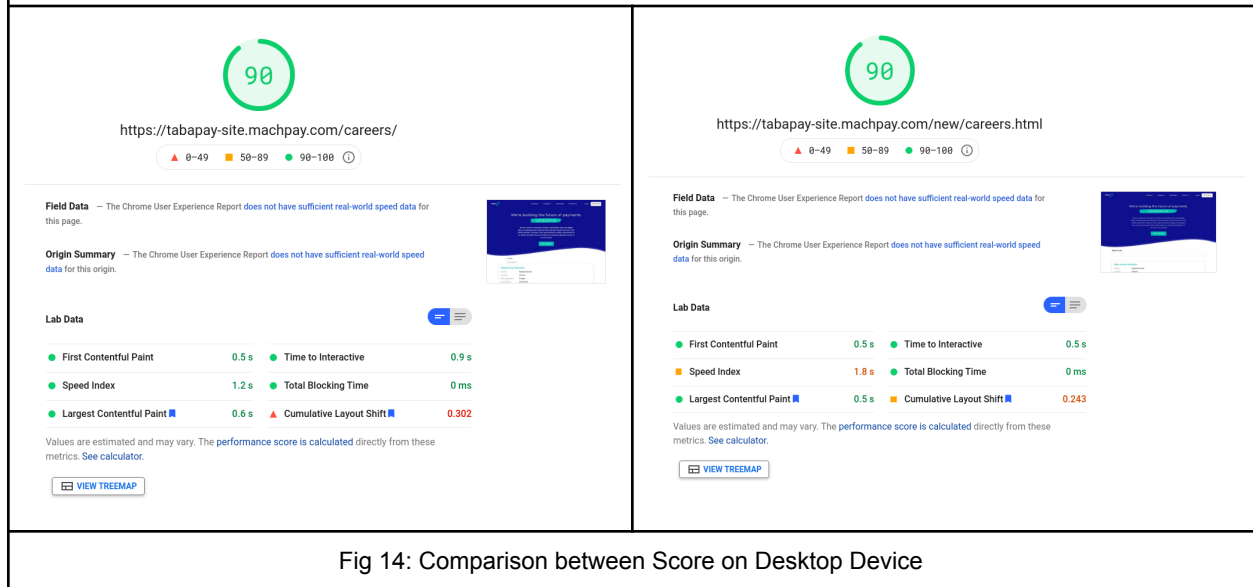


Fig 14: Comparison between Score on Desktop Device

Privacy

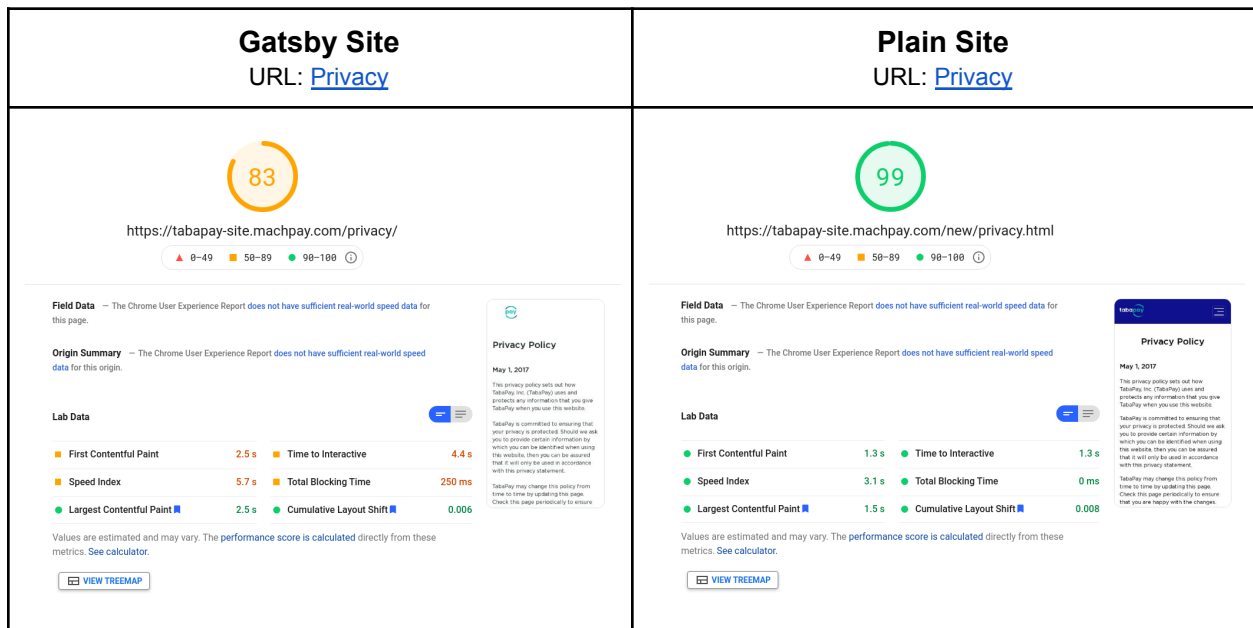


Fig 15: Comparison between Score on Mobile Device

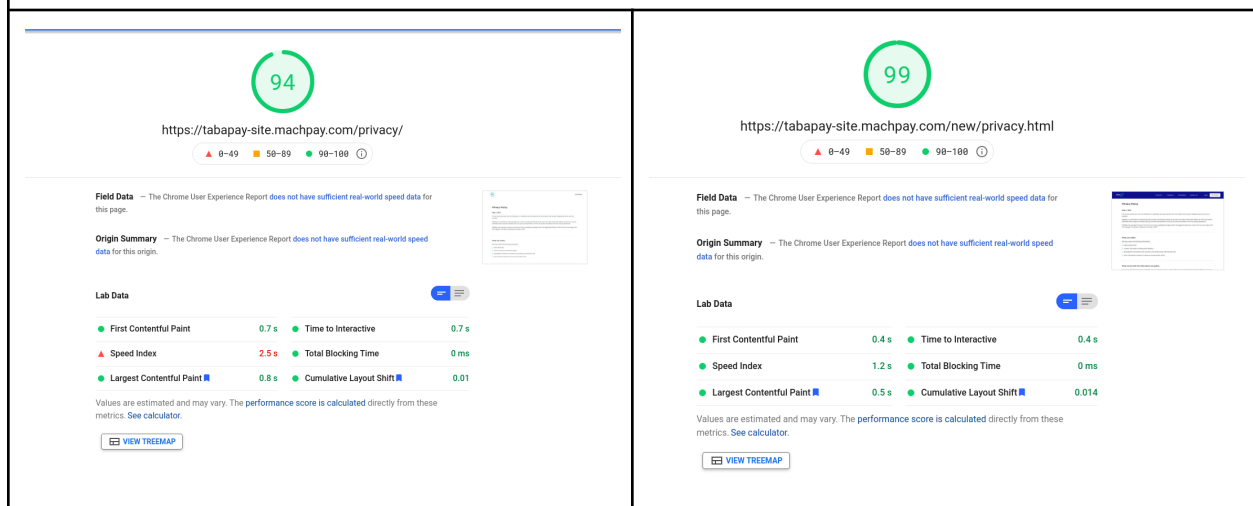


Fig 16: Comparison between Score on Desktop Device

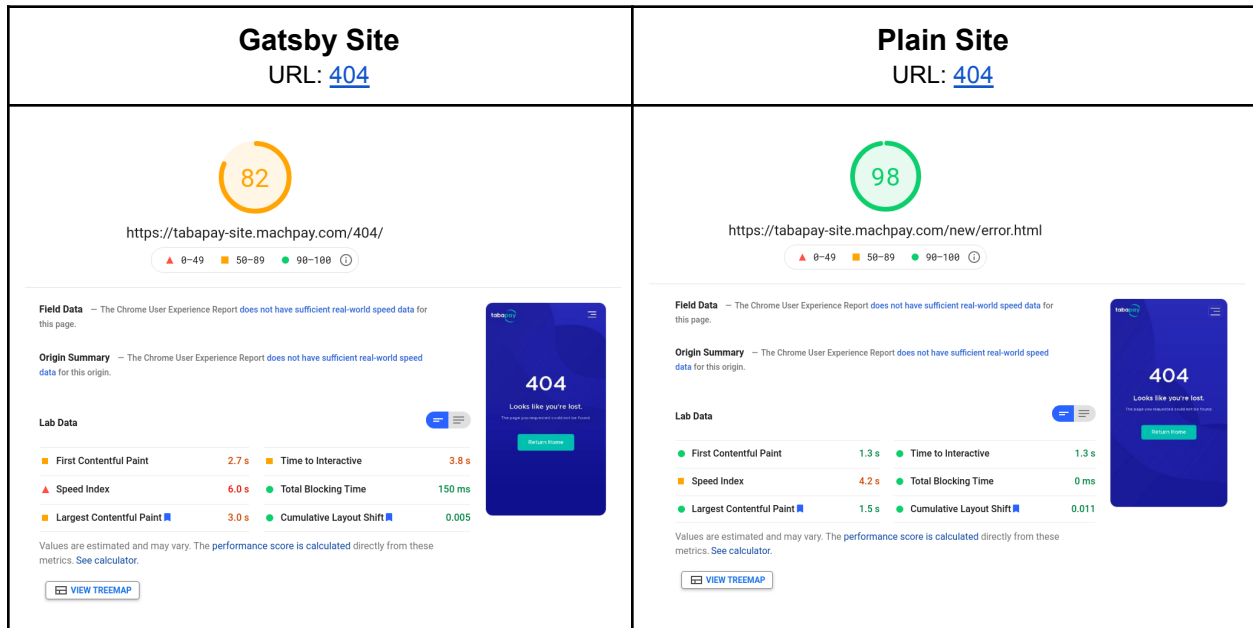


Fig 17: Comparison between Score on Mobile Device

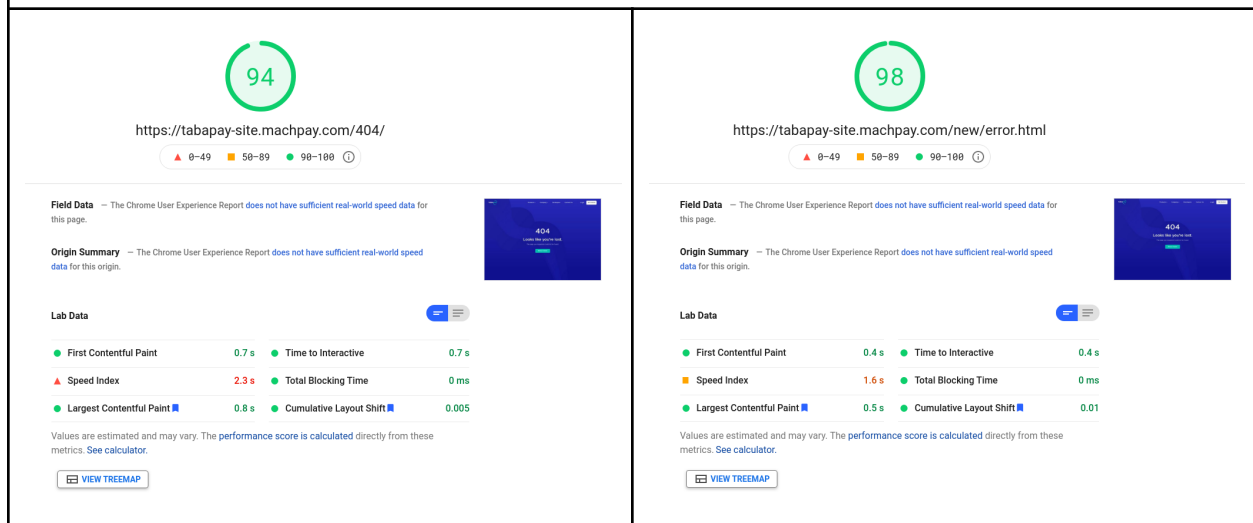


Fig 18: Comparison between Score on Desktop Device

Based on Bundle Size

(Less is better)

The following table shows a comparison of bundle size on each page built on top of Gatsby and Plain HTML/CSS/Js.

Homepage

	Gatsby Site	Plain Site (Without Integration)	Plain Site (Analytics Integration)
Bundle Size:	873 KB	52.5 KB	271.2 KB
Unused Bytes:	381 KB	9.2 KB	154 KB

About Us

	Gatsby Site	Plain Site (Without Integration)	Plain Site (Analytics Integration)
Bundle Size:	813.9 KB	48.6 KB	268.2 KB
Unused Bytes:	371 KB	12.2 KB	157 KB

Contact Us

	Gatsby Site	Plain Site (Without Integration)	Plain Site (Analytics Integration)
Bundle Size:	819.2 KB	22 KB	245.7 KB
Unused Bytes:	437 KB	6.7 KB	154 KB

Disbursements

	Gatsby Site	Plain Site (Without Integration)	Plain Site (Analytics Integration)
Bundle Size:	851.4 KB	56.9 KB	275.5 KB
Unused Bytes:	372 KB	11.1 KB	156 KB

Collections

	Gatsby Site	Plain Site (Without Integration)	Plain Site (Analytics Integration)
Bundle Size:	872 KB	58.8 KB	277.1 KB
Unused Bytes:	379 KB	10.4 KB	155 KB

Account Funding

	Gatsby Site	Plain Site (Without Integration)	Plain Site (Analytics Integration)
Bundle Size:	859 KB	54.7 KB	273.8 KB
Unused Bytes:	375 KB	10 KB	155 KB

Careers

	Gatsby Site	Plain Site (Without Integration)	Plain Site (Analytics Integration)
Bundle Size:	766.6 KB	42.5 KB	261.3 KB
Unused Bytes:	364 KB	13.1 KB	158 KB

Privacy

	Gatsby Site	Plain Site (Without Integration)	Plain Site (Analytics Integration)
Bundle Size:	652.9 KB	16 KB	235.4 KB
Unused Bytes:	368 KB	4.3 KB	149 KB

404

	Gatsby Site	Plain Site (Without Integration)	Plain Site (Analytics Integration)
Bundle Size:	643.5 KB	14.2 KB	233.8 KB
Unused Bytes:	366 KB	4.4 KB	149 KB

Conclusion

The pagespeed insight score of every page built on Plain HTML/JS site **exceeds** (preferred) that of every page built on top of Gatsby. Similarly, the bundle size of the Plain HTML/JS site is much **less** (preferred) than that of the Gatsby site. Therefore, it's recommended to deploy the site built on Plain HTML/JS.