

CA - 1(G-2)

CAP - 785 (WEB PERFORMANCE OPTIMIZATION)

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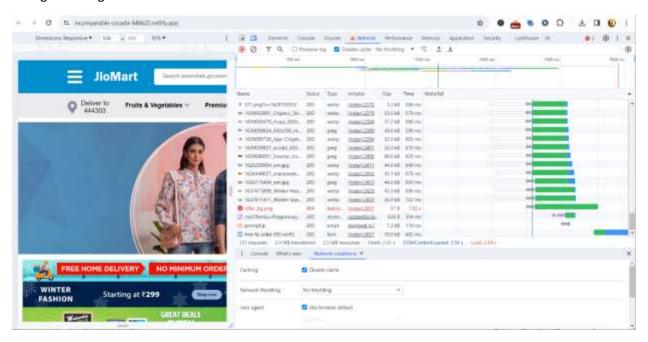
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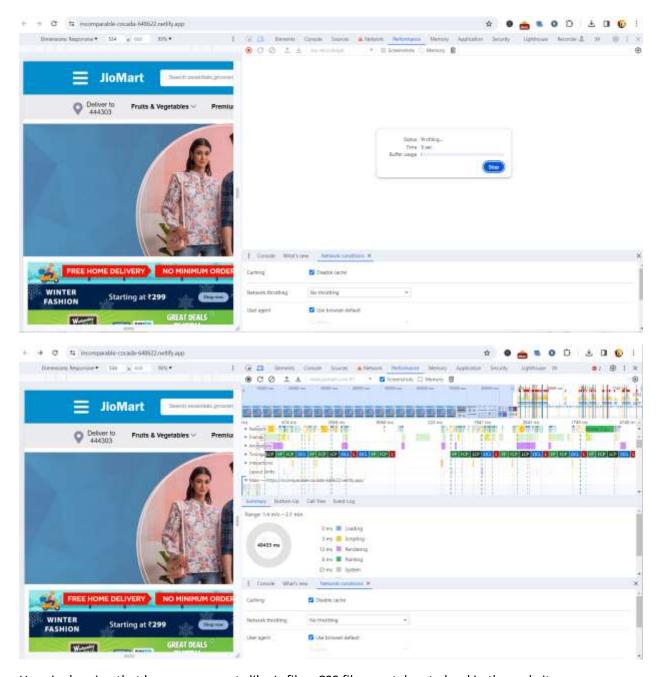
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- 1. Browser Audit:
- For the Brower audit we must open the website in the Brower and click right-click in the browser and go to the inspect option
- In the inspect section there is an option for Network there will be all the website assets and the time taken to load the assets.
- Click on Disable Cache
- As given Image below:



Then Click on the Performance option and analyze the asset speed to load in the web browser.

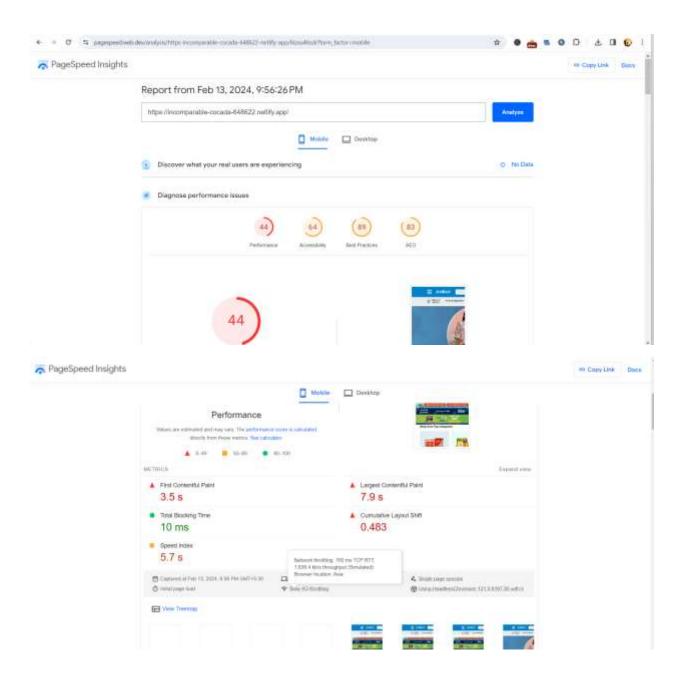
- Click on the record option and perform the performance.
- As Image given Image below:

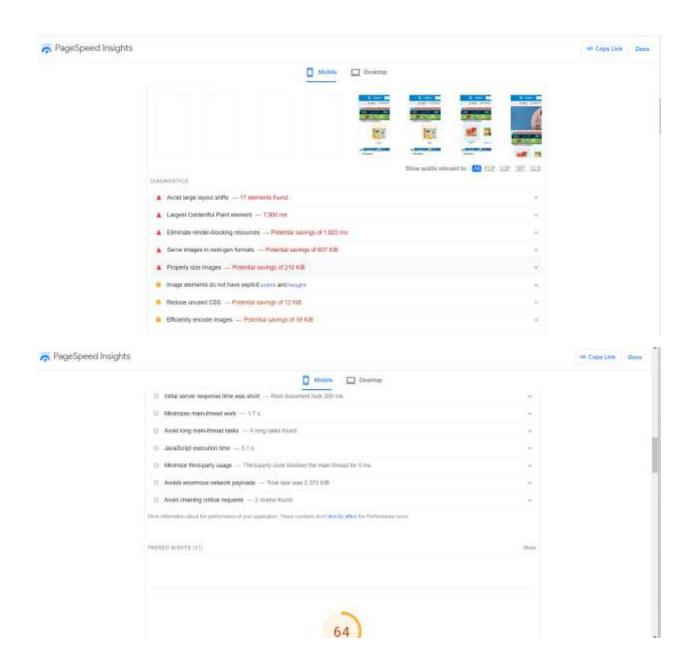


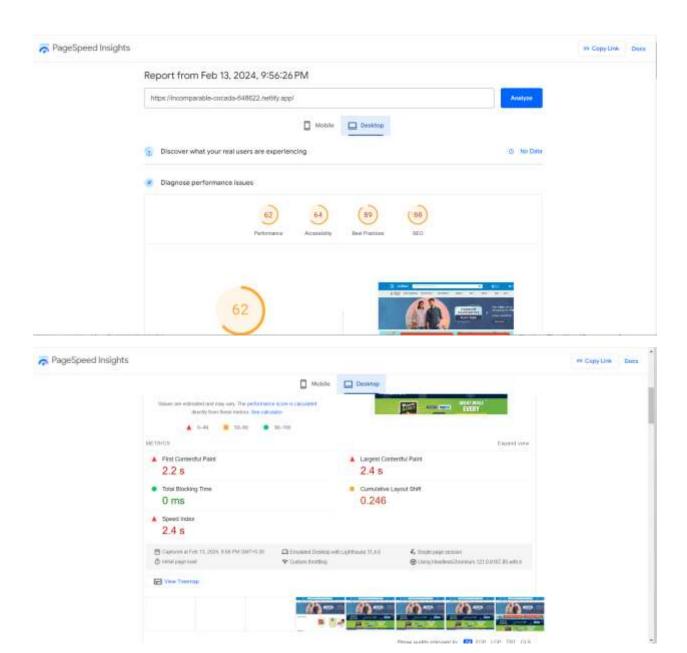
Here is showing that how many assets like Js files, CSS files are taken to load in the website.

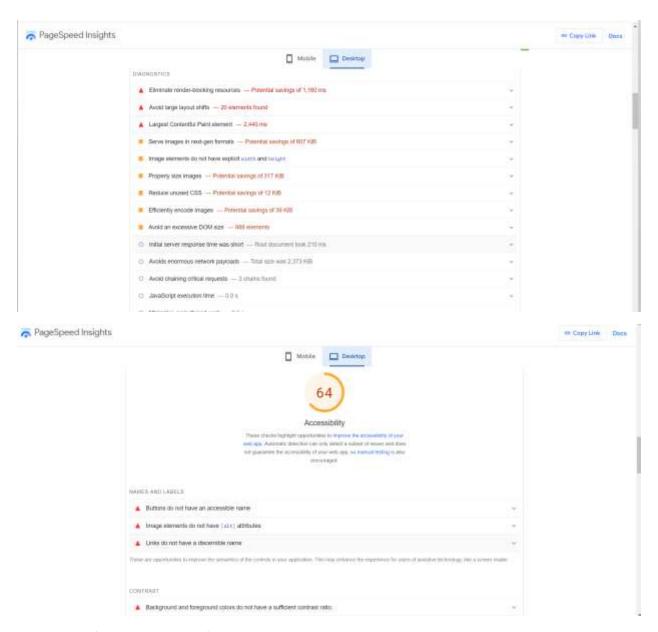
- 2. Page Speed Insight:
- It is a tool for analysis this website speed performance etc.
- These tools Diagnose the Performance Issue of the Website.
- There are two performance reports 1 for Mobile and 2nd for Desktop User

Performance image for Mobile Users:









Observation for the Audit and after Page speed Insight:

Observing the results of a website audit and analysing its performance using PageSpeed Insights, you may notice several key factors that contribute to the overall performance. Here are some common observations and recommendations:

- 1. Page Load Time:
- a. Recommend optimizing images, scripts, and other assets to reduce load times.
- b. Suggest utilizing browser caching to store static resources locally on the user's device.

- 2. Mobile Friendliness:
- a. Check the mobile-friendliness.
- b. implementing responsive design principles to ensure the website is accessible and visually appealing on various devices.
- 3. Optimize Images:
- a. highlights large image files, recommends compressing images without compromising quality.
- 4. Minify CSS, JavaScript, and HTML:
- a. minimizing the size of CSS, JavaScript, and HTML files to reduce the time it takes to load the website.
- b. removing unnecessary code, comments, and whitespace from these files.

Optimizing the Assets file after Observing:

Minifying CSS using the online tools for the better speed as picture given below:



- After Minifying the CSS file, it looks like a paragraph in the structure
- After Optimizing the Assets then check the performance
- Host the optimized Website.
- After Optimizing the website, the performance of the website is better than the older website below picture below:
- After optimizing the website, the assets are taking less time to load

## After Optimizing image:

