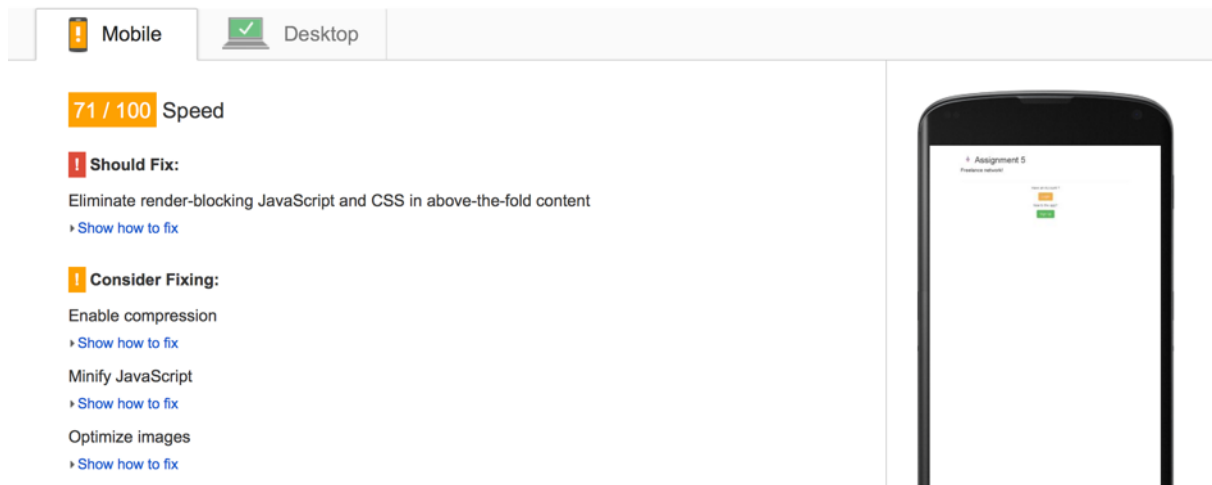


Performance report

In order to measure application performance we used google page speed insights.
<https://developers.google.com/speed/pagespeed/insights/>

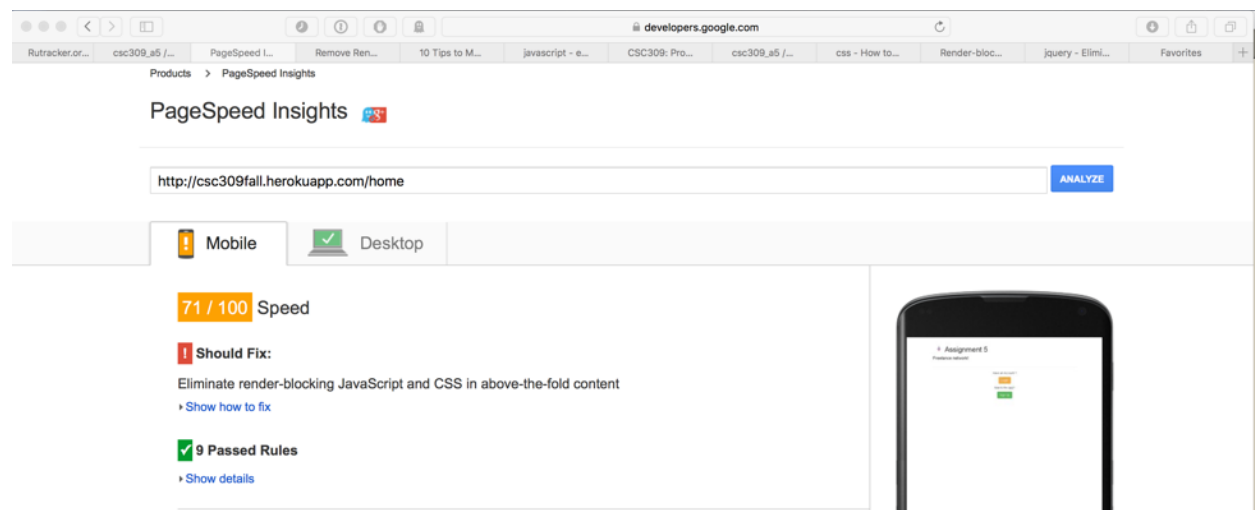
On the first try we got the following result:



Then added compression module to the app, which enabled gzip so that all scripts were compressed.

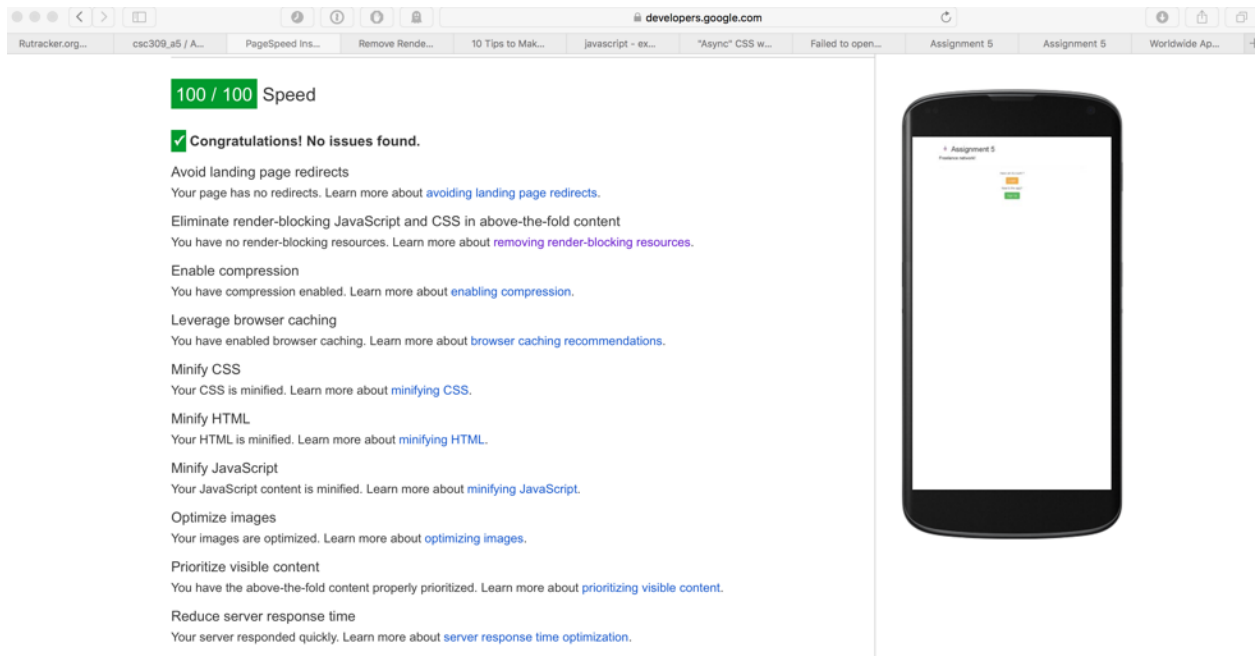
Also we optimized images using these recommendations <https://developers.google.com/web/fundamentals/performance/optimizing-content-efficiency/image-optimization>

But result remained same.



Then we made all javascripts files load asynchronously and placed css at the end of body tag.

When css was located in head tag it blocked the loading of page, until browser downloaded external resources.



The screenshot shows the Google PageSpeed Insights interface. At the top, a green box displays the score "100 / 100" followed by the word "Speed". Below this, a green checkmark icon is followed by the text "Congratulations! No issues found." A list of optimization suggestions follows, each with a brief description and a link to learn more. To the right of the text, a black smartphone is shown displaying a mobile version of a webpage titled "Assignment 5".

100 / 100 Speed

✓ **Congratulations! No issues found.**

Avoid landing page redirects
Your page has no redirects. Learn more about [avoiding landing page redirects](#).

Eliminate render-blocking JavaScript and CSS in above-the-fold content
You have no render-blocking resources. Learn more about [removing render-blocking resources](#).

Enable compression
You have compression enabled. Learn more about [enabling compression](#).

Leverage browser caching
You have enabled browser caching. Learn more about [browser caching recommendations](#).

Minify CSS
Your CSS is minified. Learn more about [minifying CSS](#).

Minify HTML
Your HTML is minified. Learn more about [minifying HTML](#).

Minify JavaScript
Your JavaScript content is minified. Learn more about [minifying JavaScript](#).

Optimize images
Your images are optimized. Learn more about [optimizing images](#).

Prioritize visible content
You have the above-the-fold content properly prioritized. Learn more about [prioritizing visible content](#).

Reduce server response time
Your server responded quickly. Learn more about [server response time optimization](#).

Assignment 5