

Audit de performanta

Proiect afaceri electronice – modul 2

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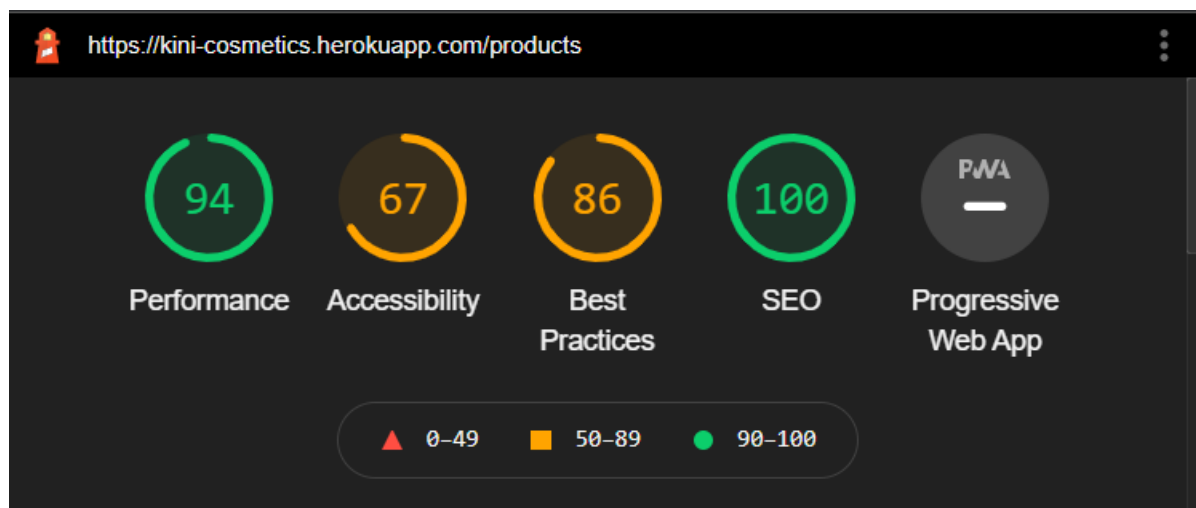
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1. Aplicare teste de performanta

Pentru auditul de performanta am folosit Lighthouse. L-am rulat din Google Chrome, prin Devtools.

In esenta, indicatorii de performanta s-au prezentat astfel:





Performance

Metrics



● First Contentful Paint	0.5 s	● Time to Interactive	0.5 s
● Speed Index	0.9 s	● Total Blocking Time	0 ms
■ Largest Contentful Paint	1.6 s	■ Cumulative Layout Shift	0.115

Values are estimated and may vary. The [performance score is calculated](#) directly from these metrics. [See calculator.](#)

[View Original Trace](#)





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 — 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.

- ▲ Buttons do not have an accessible name ▼
- ▲ Form elements do not have associated labels ▼
- ▲ Links do not have a discernible name ▼

Contrast — These are opportunities to improve the legibility of your content.

- ▲ Background and foreground colors do not have a sufficient contrast ratio. ▼

Navigation — These are opportunities to improve keyboard navigation in your application.

Passed audits (10)

- `[aria-hidden="true"]` is not present on the document `<body>`
- The page contains a heading, skip link, or landmark region
- Document has a `<title>` element
- ARIA IDs are unique
- `<html>` element has a `[lang]` attribute
- `<html>` element has a valid value for its `[lang]` attribute
- Image elements have `[alt]` attributes
- Lists contain only `` elements and script supporting elements (`<script>` and `<template>`).
- List items (``) are contained within `` or `` parent elements
- `[user-scalable="no"]` is not used in the `<meta name="viewport">` element and the `[maximum-scale]` attribute is not less than 5.



Best Practices

General

▲ Browser errors were logged to the console ▼

Passed audits (15) ^

● Uses HTTPS ▼

● Links to cross-origin destinations are safe ▼

● Avoids requesting the geolocation permission on page load ▼

● Avoids requesting the notification permission on page load ▼

● Avoids front-end JavaScript libraries with known security vulnerabilities ▼

● Allows users to paste into password fields ▼

● Displays images with correct aspect ratio ▼

● Serves images with appropriate resolution ▼

● Page has the HTML doctype ▼

● Properly defines charset ▼

● Avoids `unload` event listeners ▼

● Avoids Application Cache ▼

● Detected JavaScript libraries ▼

● Avoids deprecated APIs ▼

● Page has valid source maps ▼

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SEO

These checks ensure that your page is optimized for search engine results ranking. There are additional factors Lighthouse does not check that may affect your search ranking. [Learn more.](#)

Additional items to manually check (1)

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

Passed audits (11)

● Has a `<meta name="viewport">` tag with `width` or `initial-scale`

● Document has a `<title>` element

● Document has a meta description

● Page has successful HTTP status code

● Links have descriptive text

● Links are crawlable

● Page isn't blocked from indexing

● robots.txt is valid

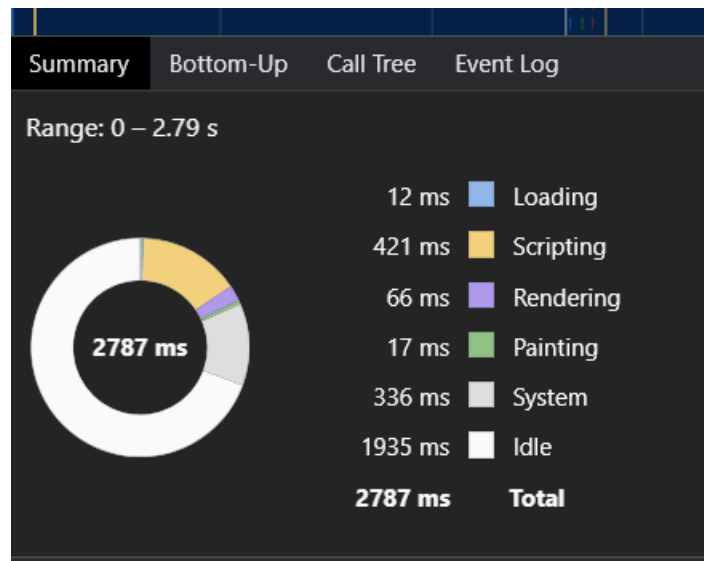
● Image elements have `[alt]` attributes

● Document has a valid `hreflang`

● Document avoids plugins

2. Interpretare rezultate

Dupa ce am analizat etapele de incarcare ale paginii web, am observant ca pagina a stat foarte mult in "Idle": 1935 ms din totalul de 2787 ms.



Am observat si ca timpul de incarcare al imaginilor a fost foarte mare. Cu ajutorul Speed index din Lighthouse am reusit sa vad modul de incarcare al paginii web, imaginile fiind ultimul element incarcat pe pagina, imediat dupa actualizarea filtrelor.

Dat fiindca am ales sa fac pagina de catalog de produse a unui magazin, imaginile alcatuiesc cea mai mare parte din suprafata ferestrei web, acestea preprezentand primul element care atrage atentia unui potential client. Tocmai din aceasta cauza, este de preferat ca imaginile sa se incarce mai devreme, sa nu existe un gap mare intre afisarea elementelor paginii. O pagina web performanta inspira incredere clientilor.

Pentru a avea o vizibilitate cat mai buna a produselor, am folosit imagini de o calitate mai inalta, totusi cum imaginile afisate in pagina web sunt de fapt mai mici decat cele reale, asta marind timpul de incarcare.

La partea de accesibilitate, am realizat de fapt importanta numelor butoanelor, exista utilizatori care poate nu isi dau seama de simbolurile pe care le reprezinta butoanele, de exemplu cele de list view sau grid view din pagina mea.

Am observat unele scapari in partea de html, anume ca elementele de heading nu sunt puse in ordine descrescatoare,

3. Propunere imbunatatiri performanta

- Folosirea de responsive images pentru a folosi exact marimea care trebuie a imaginilor;
- Adaugare etichete la hover pentru butoane;
- Adaugare mai multe filtre;
- Folosirea de memorie cache;
- Adaugarea de sub-categorii;

4. Concluzii

Un audit de performanta poate arăta zonele cu probleme ale unei pagini web și poate recomanda soluții.

Pentru a reusi sa observam aspectele importante, trebuie testate viteza actuală a site-ului web și trebuie acordata prioritate paginilor și caracteristicilor asupra carora se indreapta cea mai multa atentie a utilizatorilor