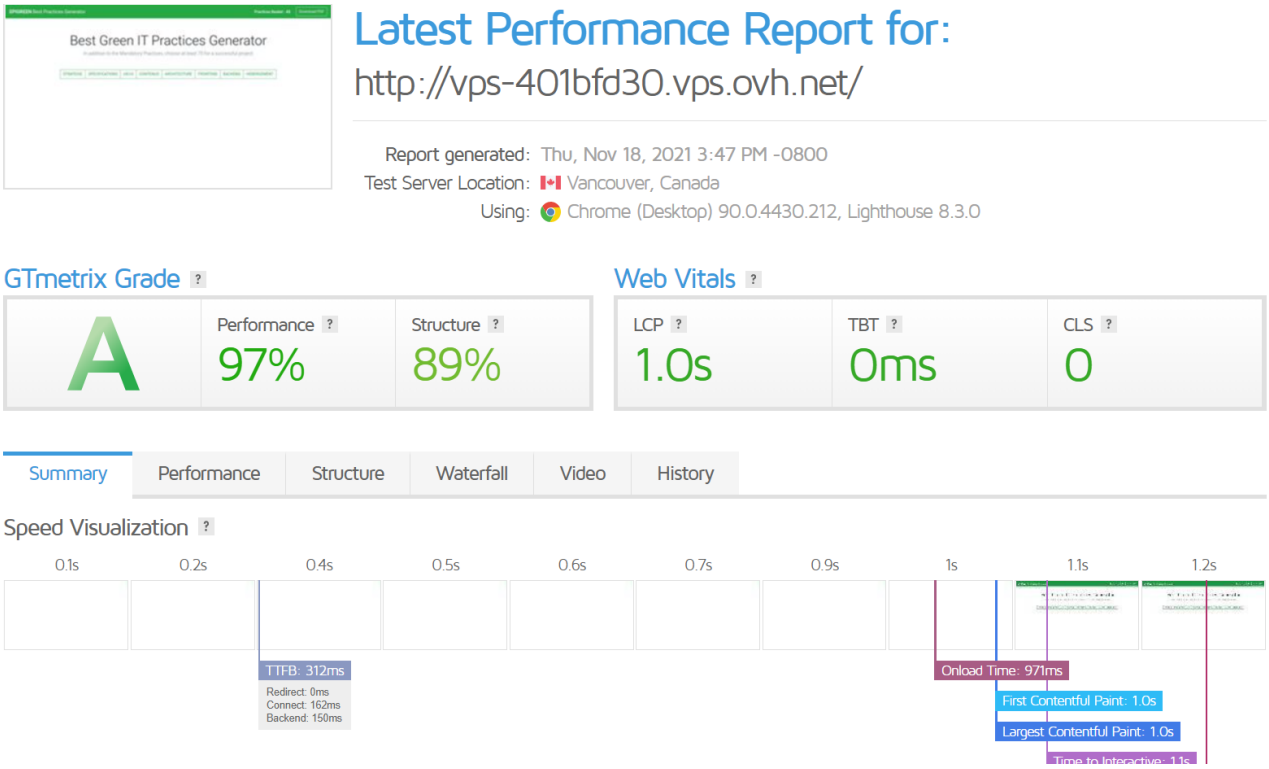
SYNTHESE DU PROJET CHALLENGE DESIGN4GREEN 2021
REPORT

Numéro d'équipe / Team Number : **39**

GT METRIX

SCORE (PageSpeed Score) : 97 % (only percentage)

SCREENSHOT (with Day and time)



ECOINDEX

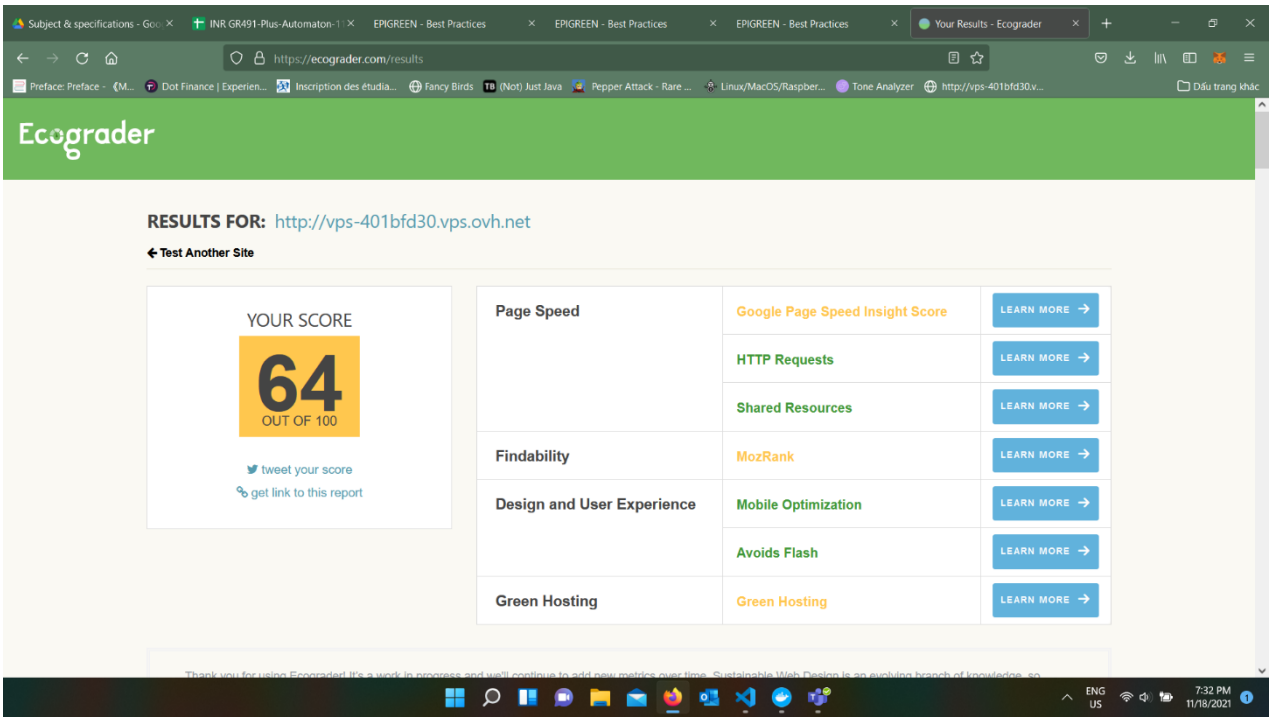
SCORE (Performance environnementale / Environmental performance) :/100

This site is under maintenance.

ECOGRADER

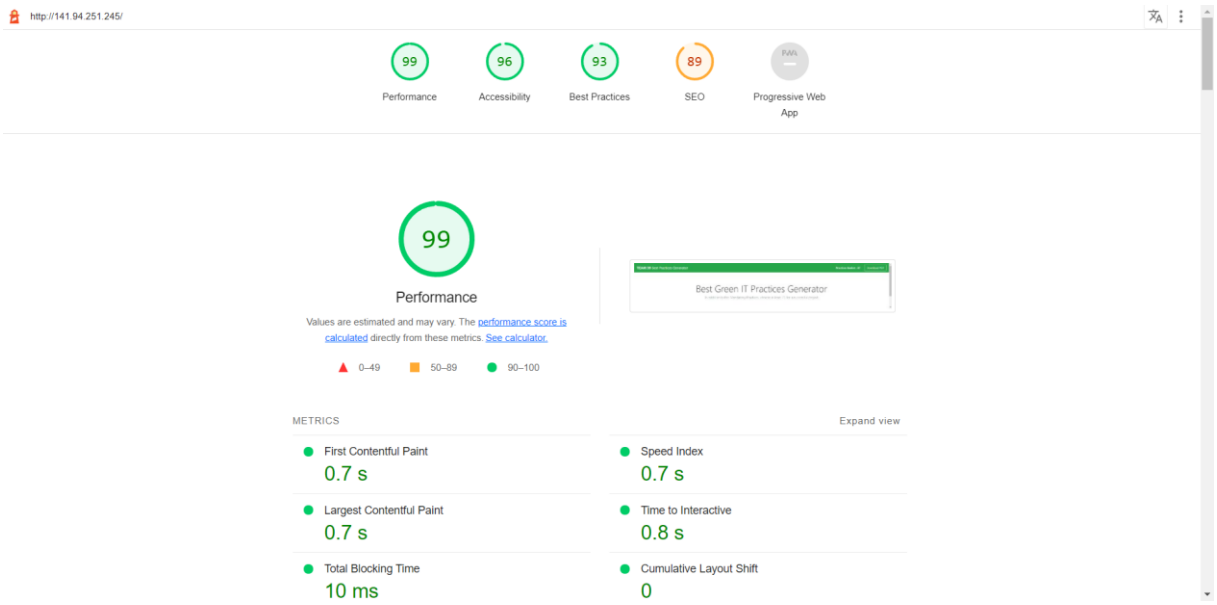
SCORE : 64 / 100

SCREENSHOT (with Day and time)



LIGHTHOUSE:

PERFORMANCE: 99 / 100
Accessibility: 96/100
Best Practices: 93/100
SEO: 89/100



Conception générale – General conception

Avez-vous réussi à finaliser votre projet ? Did you manage to finish your project ? Oui Yes / Non No

Yes

Si non, pourquoi et quels éléments sont manquants ? if not, why and what is missing ?

Conception technique – Technical conception

Quel langage avez-vous choisi et pourquoi ? which language did you use and why ?

When the project started everyone around us started debating on what language we use on the front end and which one to use on the backend, and then we wondered... What back end? The web application we are asked to make doesn't need connection to an external server or a database server. And the best language to do it which can be run completely on the client side (Every user already has it installed in their browsers) is **JavaScript**. As a result this saved us the following:

1 – Installing a different language compiler on the server
2 – Installing a Database Management system on the server
3 – Having to write and use APIs (Loss of time and resources)

Comment avez-vous optimisé vos requêtes ? How did you optimize the query ?

- Shortening the code
- Using Ternary operators
- Using minimized JavaScript imports
- Caching with service workers (Progressive Web Applications)
- Zipping the files before rendering them on Apache by modifying the .htaccess file (Saves speed, storage and rendering time)
- Avoided using unnecessary images
- Everything from A to Z is done on the browser, no external APIs calls.
- Not adding any external fonts
- We put the JS External links at the end of the index page so they don't slow down the rendering of the page.

Conception fonctionnelle – Functional conception

Avez-vous choisi d'utiliser un outil de représentation graphique ? Did you use a graphical representation ? Oui Yes / Non No

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Si oui pourquoi ? if yes, why ?

Yes, we used Bootstrap to enhance the user interface of the page to make it appealing and providing a **fluid UI** to the user to use while at the same time **using less ressources** (We avoided using React because of its heavy modules library)

Design

Expliquez en quelques mots les choix réalisés au niveau du design du site? Explain your design choices ?

We have developed a simple and clean UI which has high accesibility features and better Eco-Design.

Accessibilité

Qu'avez-vous mis en place pour le respect de l'accessibilité du site? How did you manage the accessibility of your site ?

We used a minimalist flat clean design. **Good green and white colors** that are easy on the eye and easy to read. **Differentiating** between the **main headings and the subheadings**, using a clear font, segmentation of the best practices in 8 different tabs on the same page easily available by the click of a button to show only one family at a time and not distract/overwhelm the user. The parent strategies were highlighted with a green background to distinguish them from the child practices.

Main components of a practice professionally written in the main table with a button "Show Details" that opens a medium sized **JS window** to show the rest of the details in an organized way.

A **selected practices counter** on the navbar of the page so the user knows how many practices they selected and next to it a button to generate the PDF for their selection.

The navbar is of fixed positioning which means that even if the user scrolls down to check for other practices he/she will always be able to see it and how many practices he/she selected so far.

We understand that to err is human so next to the add to basket button we added a button to remove practices that were added by mistake. The **mandatory practices all appear on their respective family lists with the add button disabled** to signal that they are added by default but at the same let the user know they are in his basket. That is also the reason the Basket count starts at 43 from the beginning.

QUESTIONS GÉNÉRALES – GENERAL QUESTIONS

Qu'est ce qui fait que votre site est éco-conçu? Why your solution is ecodesign ?

By using less ressources, less bandwith, less network requests and the least number of external libraries and efficient processing of data using only one language our website consumes less electricity and less machine processing which as a makes it cause the least carbon emissions. As per the analysis provided by vps-401bfd30.vps.ovh.net - Website Carbon Calculator

Carbon results for

vps-401bfd30.vps.ovh.net

Share

This page was last tested on 18 Nov, 2021.

Hurrah! This web page is cleaner than 88% of web pages tested

Only 0.14g of CO2 is produced every time someone visits this web page.

This web page appears to be running on sustainable energy

Avez-vous d'autres remarques pertinentes sur votre projet ? others comments on your project ?

It was a very interesting project and we learned a lot about how to make eco-friendly websites and share this passion with colleagues. We learnt a lot of eco-design practices and also implemented a few in our project.