



## SYNTHESE DU PROJET CHALLENGE DESIGN4GREEN 2020 REPORT

Numéro d'équipe / Team Number : 41 / EPITA number: 2

### GT MTERIX

SCORE (PageSpeed Score) : NOK.% (only percentage)

SCREENSHOT (with Day and time)

06/11/2020 at 06:08

#### Analysis Error

Unable to analyze your site with YSlow

Sorry, we encountered an error generating your report. Please try again later.

If you think GTmetrix is wrong, [let us know!](#)

### ECOINDEX

SCORE (Performance environnementale / Environmental performance ) : 44.1/100

SCREENSHOT (with Day and time)

06/11/2020 at 05:58

calculé le 06 / 11 / 2020

Renouveler le test pour  
146.59.196.21/

→ Performance environnementale ⓘ

max : 100



médiane : 58.81



min : 0



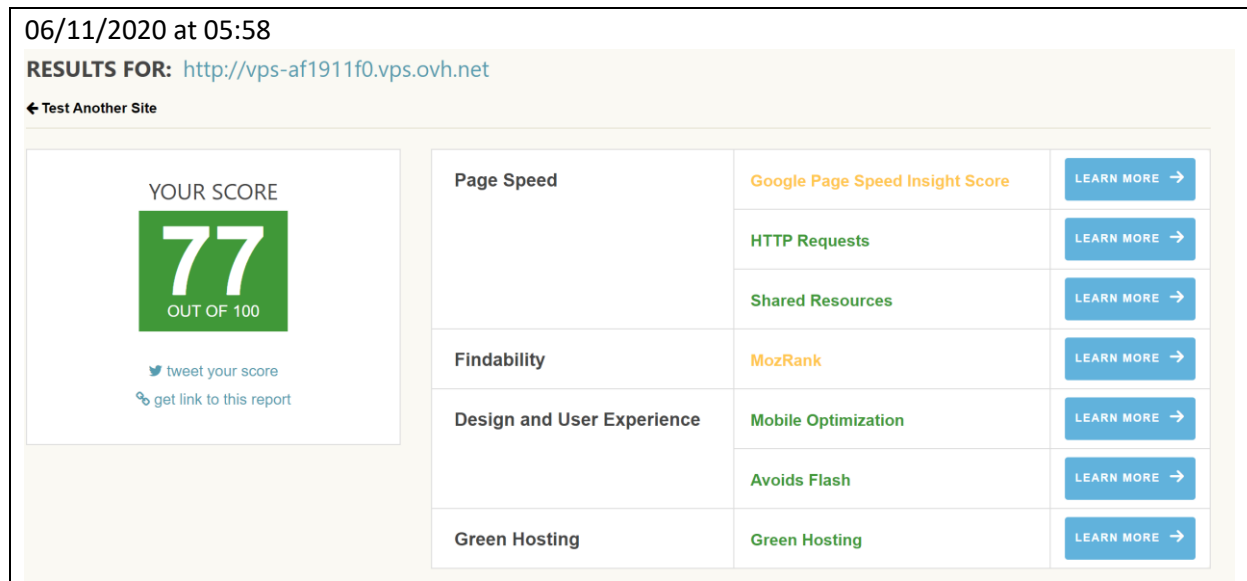
cette page : 44.1

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## ECOGRADER

SCORE : 77 / 100

SCREENSHOT (with Day and time)



## SONARQUBE

GITHUB URL : [https://github.com/kunalpatz/design4green\\_challenge2020](https://github.com/kunalpatz/design4green_challenge2020)

### Conception générale – General conception

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

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

We have managed to implement most of the features but some could be improved like the city search bar or the management of postal codes shared by several cities. With the available amount of time, we decided to display the first city for the requested Code postal. With more time we could have manage it better by asking the user to select the city he wanted in the list but our knowledge in front end being limited we didn't have time to do that.

### Conception technique – Technical conception

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

Python because it is easy to implement and we used FLASK which is based on python. We have one of our team members who has a strong knowledge of this application.

The website was developed in HTML/CSS and the data is stored in an SQL database.

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

## Conception fonctionnelle – Functional conception

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

Si oui pourquoi ? if yes, why ?

Yes, we used UML diagrams to prepare our database plan. It is always useful to have a full view on the primary and foreign keys and relationship between the tables.  
During the course of the project we however changed slightly our table relations to simplify it and minimized the stored data which resulted in a new UML diagram.

Si non pourquoi ? if not Why ?

N/A

## Design

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

The team had limited knowledge on the front end side so we kept it basic. It is only HTML/CSS and some small JavaScript scripts.  
We have 1 dropdownlist for the "Nom de commune" where the user can type the beginning of the name of its commune.  
There is also an input box for the user to input a "Code Postal". As code postal can have several cities linked to it, we are displaying the first city with this Code postal. As mentioned above there is an opportunity for improvement here where the user can choose the city it wants to display.  
We could have improved the page with more time to develop our knowledge on more advanced tools for front end such as AJAX.

## 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 have installed apache Linux web server and then we are accessing it via the IP address of VPS. The website is only in basic HTML without any fancy options that sometimes don't work the same on the different browsers. Moreover, the front page is very limited with 2 input possible and the result in a clear table. This should help unexperienced users to find quickly the information they are looking for.

## QUESTIONS GÉNÉRALES – GENERAL QUESTIONS

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

We have put a lot of effort in our data model to find the best balance between the amount of data stored and minimize the number of computations to be performed during the usage of the website. Therefore we decided to store the average scores for the regions and departments in specific tables. This limits the number of times it needs to be calculated. This information is not stored in the main data table to avoid duplicating this information for each city. On the user interface we tried to display the minimum of information to fulfil the requested function but without any fancy content such as animations, video, pictures etc that are quite demanding in resources.

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

We faced a problem in the excel file, we had errors in the CSV related to geo shape for some lines. We have been able to fix it but it took a lot of time and it would be easier if we the CSV file was directly in the good format to import CSV in our database. Moreover we started with a wrong understanding of the subject, trying to recalculate the indicators ourselves and the information came quite late that it was not necessary. We believe it was not very clear in the specifications and we wasted a significant part on the first day on that.