

Design4Green - 2019

Choice of the language and technology:

- Python, quick and efficient language, fast to execute (other solution JavaEE, php & javascript)



- Framework used: Django

Why Django:

1. Free and open source
2. SQL injection protection
3. Cross site scripting protection (XSS)
4. Cross site request forgery protection (CSRF)
5. Clickjacking protection
6. SSL/HTTPS
7. Host Header Validation



- Nginx for web server (other solution apache)

Why Nginx?

Nginx response time and usage of resource are better than Apache or Lighttpd. Nginx is identified as the most efficient and light-weight web server today. Numerous benchmarks are there to establish the difference between Nginx and various other web servers. When compared to other web servers, Nginx supports more traffic concurrently and also it has the minimum memory usage.

- PostgreSQL (other solution mysql, mariaDB)
 1. Free and open source

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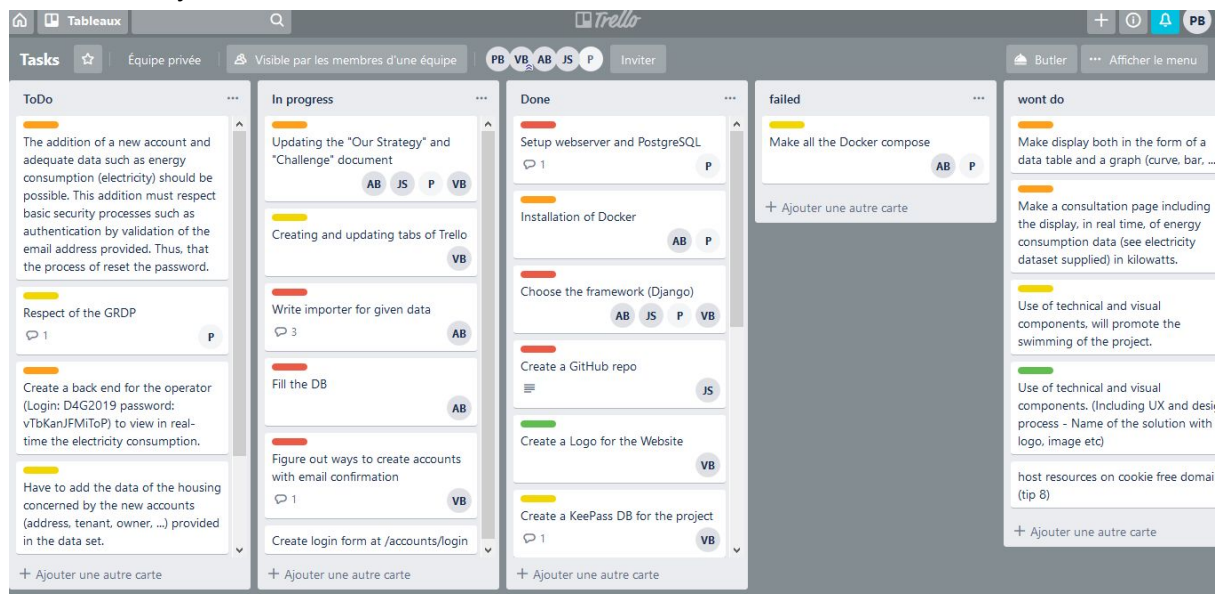
Authentication part:

- email checking, confirmation
- password reset
- keepass

Energy consumption:

- Monitoring softwares
- Django debug toolbar

Management: Trello and Scrum method, Meeting every morning and reviews at mid day and end of the day.



GDPR.

- Formation about regulations for all the members of the team
- Following the advices from the CNIL about web applications.

KEEPASS -> challenge

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Tools used:: Putty, Google suite (doc, drive), trello, canvas, github, sublimtext, notepad++,

What we could to improve?

About the server himself, Fail2Ban is a must, it's quick to install and configure. It defends against brute force attacks.