Green IT document - Instamint

Description of the potential ecological impact

Microsoft, whose Azure service we will be using, has worked extensively in this area.

According to some sources, the digital sector is responsible for 3 to 4% of greenhouse gas emissions. The digital sector also requires the extraction of non-renewable resources.

Therefore, there is a real ecological challenge.

This Green IT plan details the strategic measures we will implement to ensure that the project minimizes its environmental impact and adheres to sustainable practices. This document addresses the various components of the project.

Sustainability plan

We evaluated the environmental impact of our project based on its infrastructure and operational needs:

- servers : three servers are necessary to ensure the application runs without any interruptions
- storage : a database with a capacity of 150 GB
- domain name and SSL certificate : required to guarantee the security and visibility of the application.

Sustainability strategy

Servers

Resources optimizations : we will opt for low-energy consumption servers and use virtualization to optimize resource utilization.

Our partner, Microsoft Azure, has worked extensively in this area. This includes, for example, the energy efficiency of the data centers used by the service.

Efficient cooling : Azure data centers are adequate. Indeed, Microsoft places great importance on ecology. Therefore, they align with our Green IT policy.

Renewable energy : whenever possible, we will select "green" data centers. This is fortunate, as by 2025, Azure data centers will be fully powered by renewable energy.

Storage

Storage efficiency : energy-efficient storage is preferable to minimize the carbon footprint.

Archiving et compression : to reduce the required storage space, it is essential to implement archiving and compression strategies.

SSL certificate and domain name

SSL certificate : we will choose providers who are committed to sustainable practices.

Green domain registry : we will prefer domain registrars that support ecological initiatives.

Training and awareness

<u>Continuous training</u> : the development team will receive continuous training on Green IT.

<u>Sensibilization</u> : we will implement initiatives to raise awareness among all employees about the importance of sustainable practices in the field of information technology.

Energy performance indicators

<u>Monitoring and reporting</u> : we will establish key indicators to track the energy performance of our project and publish regular reports.

<u>Reduction targets</u> : we will set short, medium, and long-term energy goals to reduce the application's carbon footprint.

Conclusion

By integrating these Green IT practices, we commit to reducing the environmental impact of our NFT web application project while ensuring optimal and secure performance. We firmly believe that sustainability and innovation can go hand in hand to create responsible technological solutions.