NO MORE WASTE

Created in 2013 in Paris, NO MORE WASTE is a humanitarian association fighting against waste

which is gradually developing in the provinces (Nantes, Marseille, Limoges) and internationally

(Naples, Porto, Dublin). The list is likely to evolve rapidly thanks to a strong expansion.

The basic idea of the association is to collect every day the unsold products, or the

products that have reached their use-by date: on request, trucks leave from the association's headquarters

from the association's headquarters, collect the products and bring them back to a storage building.

storage building. Rounds are then made to redistribute the products wherever they are needed.

In addition, NO MORE WASTE has developed a whole range of services to help everyone avoid waste, to

everyone to avoid waste, share and save. The services are available to members of the association

of the association, for a small annual fee.

**Services offered**

Anti-waste advice

Cooking classes

Sharing of vehicles

Exchange of services between individuals (DIY,

electricity, plumbing)

Repair services

Babysitting

To carry out all its activities, NO MORE WASTE currently employs 14 permanent staff

divided between its headquarters in Paris and its local agencies in Nantes, Marseille and Limoges. More than 200 volunteers

volunteers have decided to help the association in its daily activities.

Since its creation, the association has grown exponentially, leading the directors of

NO MORE WASTE to modernize their information system, both in terms of the network and the application

network and applications.

On June 5, 2022, NO MORE WASTE launched a call for tenders to reorganize its information system

management, website and system and network architecture,

You will have to respond to this call for tenders as part of the 2021-

2022.

This call for tender contains three lots to be executed:

1st lot: Management of Collections, Storage and Distribution Rounds

2nd lot: Management of volunteers and services

**Batch 3**: network and system architecture for hosting and production

to be deployed.

Each lot is presented in the form of a mission in the following pages.

**General remarks:**

the instructions on programming languages must be respected, knowing that not everything must be realized as a dynamic

be realized as a dynamic web application (there must also be C, Java or other languages).

C, Java or another language)

the rendered product must be packaged to be easily deployed (provide a script to install/copy

script to install/copy directories, libraries, useful files and databases if necessary)

databases if necessary)

Mission 1 : Collection management,

Warehousing and Distribution

**NO MORE WASTE**

Presentation:

Figth Food Waste's business model is based on the rapid organization of collections and distribution

distribution rounds, as well as providing services to its members. It was therefore decided to

decided to migrate from the old slow computer system to a more efficient tool.

efficient tool.

It is therefore mandatory to develop a set of tools allowing to :

propose a "push button" to individuals,

manage the membership of the merchants (general information, identification, ...),

manage the collection system,

manage stocks,

manage the distribution rounds (charities, individuals in distress, ...)

This is a minimum to be achieved, but of course, it is possible to integrate new management modules

modules, provided that they are approved by NO MORE WASTE's management.

Work to be done

The computerization of this mission must be carried out in the following manner:

A C application must be built to allow individuals to notify NO MORE

WASTE that they have something to donate. An application will thus have to allow to scan

the product barcode(s), save the result in a JSON file

file and transmit this JSON file to NO MORE WASTE's IT department.

The scanned products must be referenced by the openFoodFacts API.

A plus would be to use a small electronic tool (Raspberry, Arduino or other).

A WEB application (Javascript/PHP object coupling) will be used to build and manage the

memberships of the merchants (foresee a system of automatic reminder of renewal), as well as the

renewal), as well as the collection system, storage and rounds.

Each product brought back to the headquarters will have to be referenced (bar code), stored and retrievable

very quickly.

Each delivery will result in a summary in PDF format.

The use of Ajax is mandatory in this part of the project.

In addition, Figth Food Waste wishes to present a modern and dynamic presentation of its

through a WebGL application.

Of course, there is both a back office (used by NO MORE WASTE) and a front office (used by NO MORE WASTE customers).

office (used by NO MORE WASTE customers).

Moreover, as the association has moved abroad, at the request of the municipalities, the site must

be multilingual.

Finally, a personal web server will have to be configured to host the NO MORE WASTE site. The

demonstration will have to be done on this server (provide URL rewriting, error codes, etc.).