

Cahier des Charges - Statistics **Management Software for the Medical** **Home**

1. Background and problem definition

First of all, the aim of this project is to help our client, Marie-Gabrielle Pujol, who is an Organization Engineer in the Strategy Department of the Organization and Methods Unit at the Tours University Hospital. One of her missions is linked to the Maison de Médecine de Garde de Trousseau (Trousseau on-call medical center), which enables consultations to be carried out by a private GP in specific slots, with doctors registered on a voluntary basis for 4-hour shifts.

The slots are open from 8pm to midnight, Monday to Friday, and from 12pm to midnight on Saturdays, Sundays and public holidays. These slots are available on Doctolib and can be booked by the SAU (Service d'Accueil Urgences), SAS Ambulatoire (Service d'Accès aux Soins), MMG doctors and Médecins Régulateurs Libéraux. What's more, appointments are booked for 15 minutes.

The data for these appointments can be extracted from Doctolib in the following format

.csv files. In the interests of confidentiality and security, this data is anonymized.

We have the following information: the start date of the appointment, appointment start time, reason for appointment, Notes, date entered, date last updated, who created the appointment (SAU, MRL...), status (seen, coming, absent), date of birth, arrival time, departure time. Using this data, Ms Pujol had to calculate various statistics in Excel, such as the age of patients in order to sort them by age bracket, but also the number of appointments honored, the number of potential shifts, covered, the number of potential appointments, honored, covered, taken, and also the distribution of appointments booked on Doctolib according to source (e.g. SAU, 15).

The distribution of reasons, but also whether doctors leave their posts or take a break because he means it instead of an appointment.

The aim of all these statistics is to be able to monitor and present the progress of MMG activity in its entirety, whether on the patient or physician side.

2. Project objectives

The main objectives of this project are as follows:

- Develop an application to manage statistics on data imported from doctolib.
- Develop an application compatible with the technologies used by the customer.
- Export statistics in various formats: .csv, .png graphs, dashboards containing statistics and graphs, for easy presentation.
- Set up a database to store the data needed to run the application.

3. Features description

The application's main features include :

- Import, save and view data (database).
- Generate diagrams and indicators from the selected dataset.
- Export data (diagrams, indicators, tables, etc.) in a variety of formats.
- The creation and visualization of a dashboard containing diagrams and indicators chosen by the user.

4. Technical Requirements

- The application will be compatible with the customer's computer.
- Implementation of a database integrated into the application.
- The user interface will be designed to be intuitive and ergonomic for the end user.

5. Constraints

- The project is scheduled for completion at the end of May 2024.
- The software must be easy to use.

6. Expected deliverables

The deliverables expected at the end of the project are :

- Application source code.
- Functional and technical specifications.
- The recipe book.
- Installation and deployment instructions.
- Any other element deemed necessary to ensure proper use of the application.

7. References

If you have any questions or need further clarification, please contact Louis Soulier at louis.soulier@etu.univ-tours.fr .