

CentroStella

CentroStella

What is CentroStella

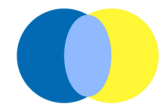
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CentroStella

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What is CentroStella

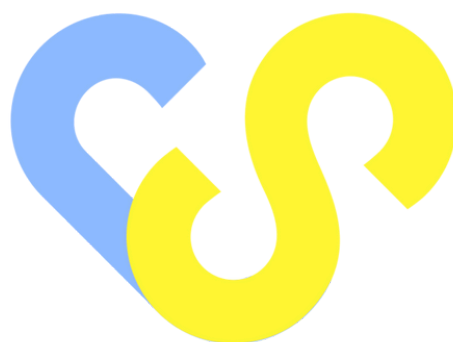
CentroStella Cerotek's managing software that allows to **record, store** and **extract** all the datas from the different devices that it makes use of.

CentroStella's service has been conceived with the specific goal to implement the **quality of assistance**, becoming a real and concrete support to healthcare workers, **reducing the risk of error** and improving the **quality of life** of the assisted.

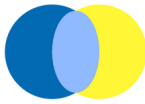
Accessing to CentroStella with given credentials, it's possibile:

- 1) create and manage the accesses to the portal and to the App for **Admin, Doctors e Operators**
- 2) create the master data of the **single assisted**
- 3) create the master data of **doctors**
- 4) **monitor the datas** and **manage the alarms** in case of anomalies or abnormal parameters
- 5) **manage therapy** previously uploaded for the single assisted

It's a service available both for Desktop, especially for what concert the administration, and for App to guarantee the correct use from the operators.



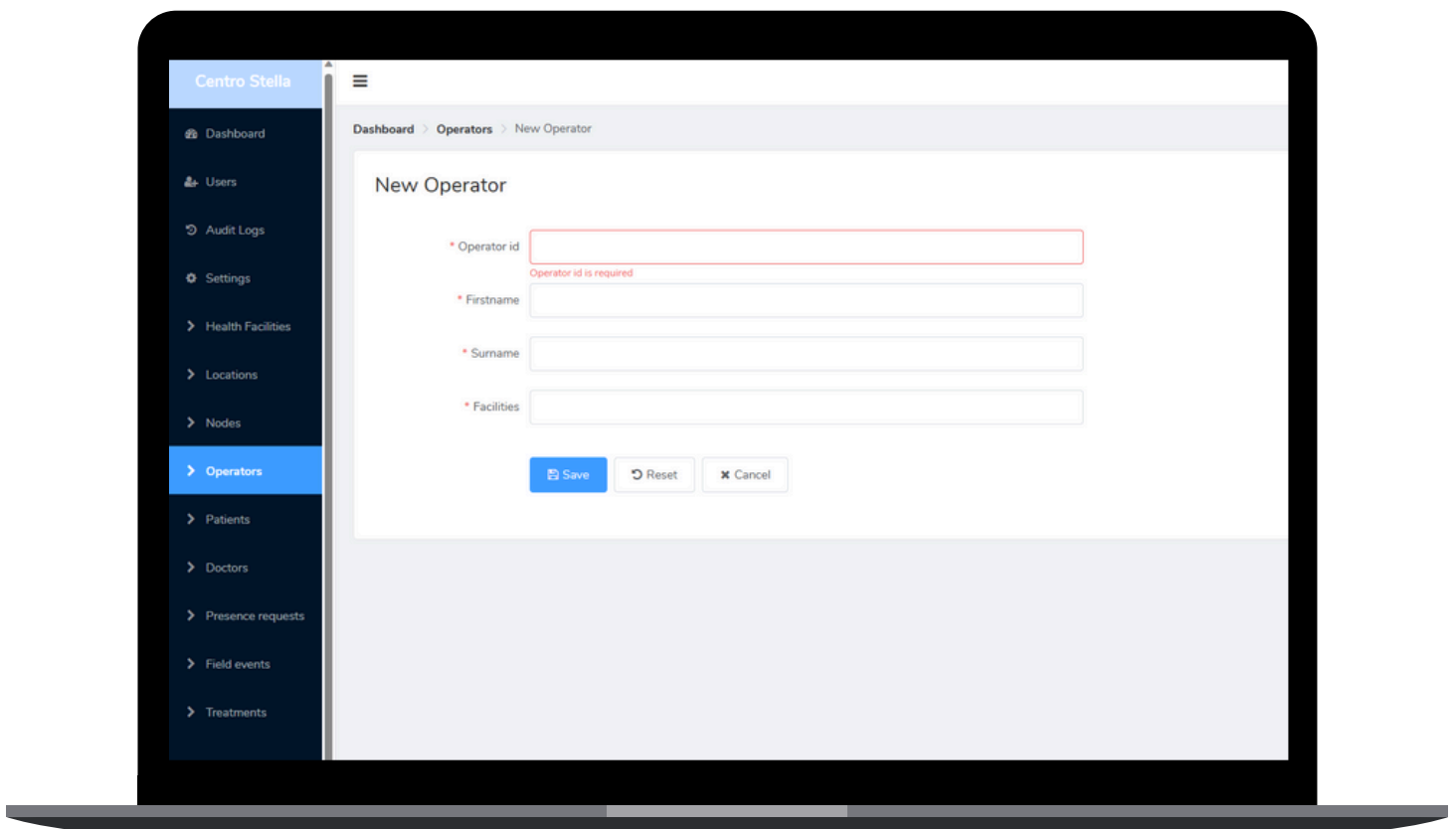
CentroStella

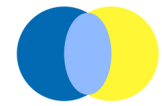


1 Master Data

1.1 Operator

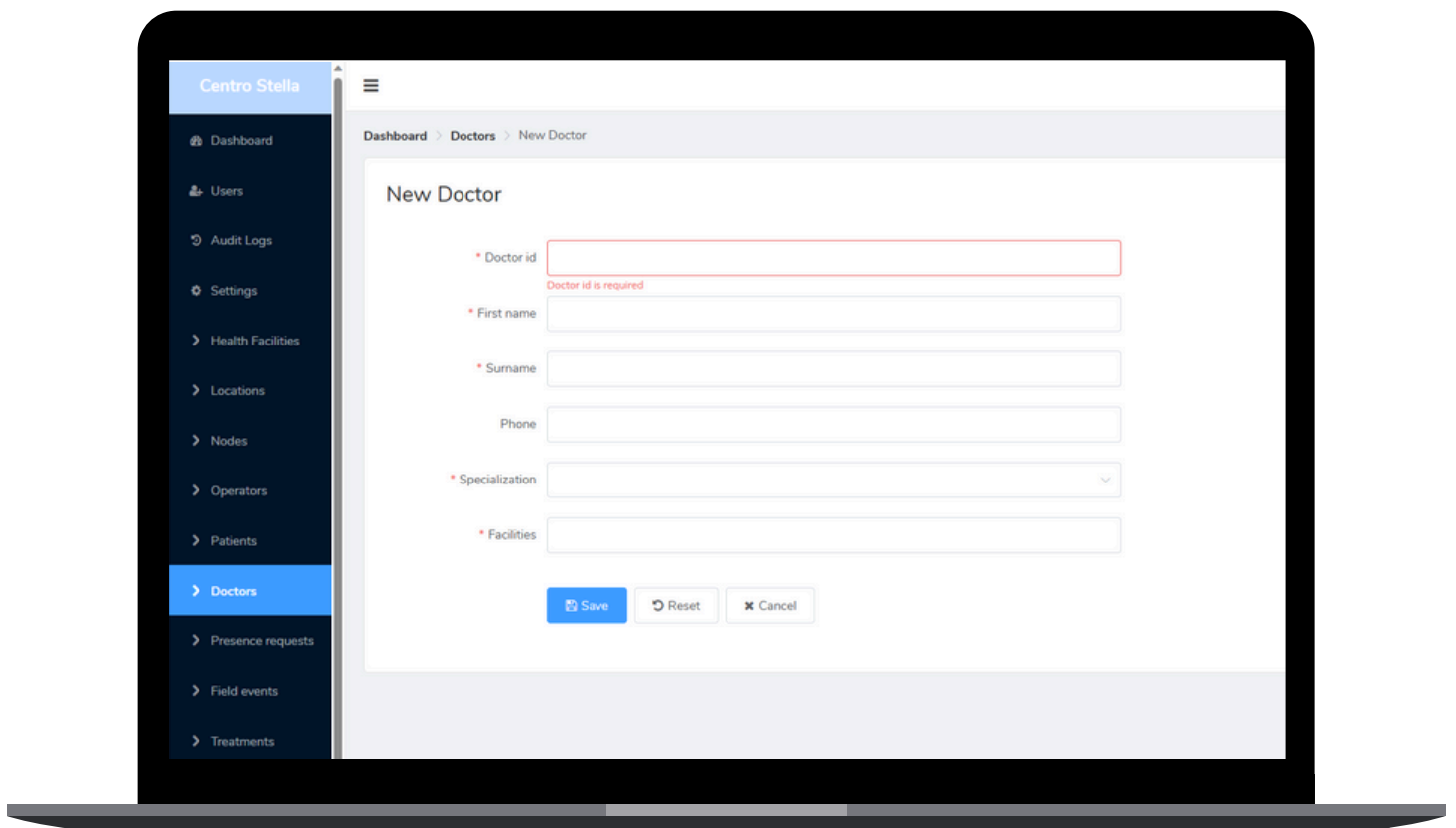
To guarantee the Operators' access to the App, the Admin needs to select the "**Operators**" section. Clicking on "**New**", the **Username**, the **First Name** and the **Last Name** and the **facility** where they operate need to be inserted.

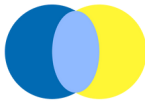




1.2. Doctor

Selecting the "**Doctors**" section, it's necessary to insert the **Username**, the **First Name** and the **Last Name**, the **phone number**, the **specialization** and the **facility** where they operate.

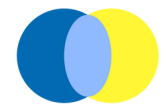




1.3 Patient

After accessing to CentroStella with given credentials, in the “**Patients**” setion, selecting “**New**”, it will be possible to upload the assisted master data. It will be necessary to insert the **Health Card Code**, **Surname and Name**, **date of birth**, **sex**, the **general practitioner**, **reported allergies**, the **certificates of documented allergies**, **weight**, if the assisted benefits of **hospital supply**, indicating if it is a **diabetic patient** and if the profile of the patient is “**active**” or “**not active**”.

The screenshot shows the 'New Patient' form in the CentroStella application. The form is displayed on a laptop screen. The left sidebar shows the navigation menu with 'Patients' highlighted. The main content area shows the 'New Patient' form with fields for Patient id, First name, Surname, Facility, Immagini, Birth Date, Gender, and Health card code. The 'Patient id' field is highlighted with a red border and has a red error message 'Patient id is required' below it.



CentroStella's functions

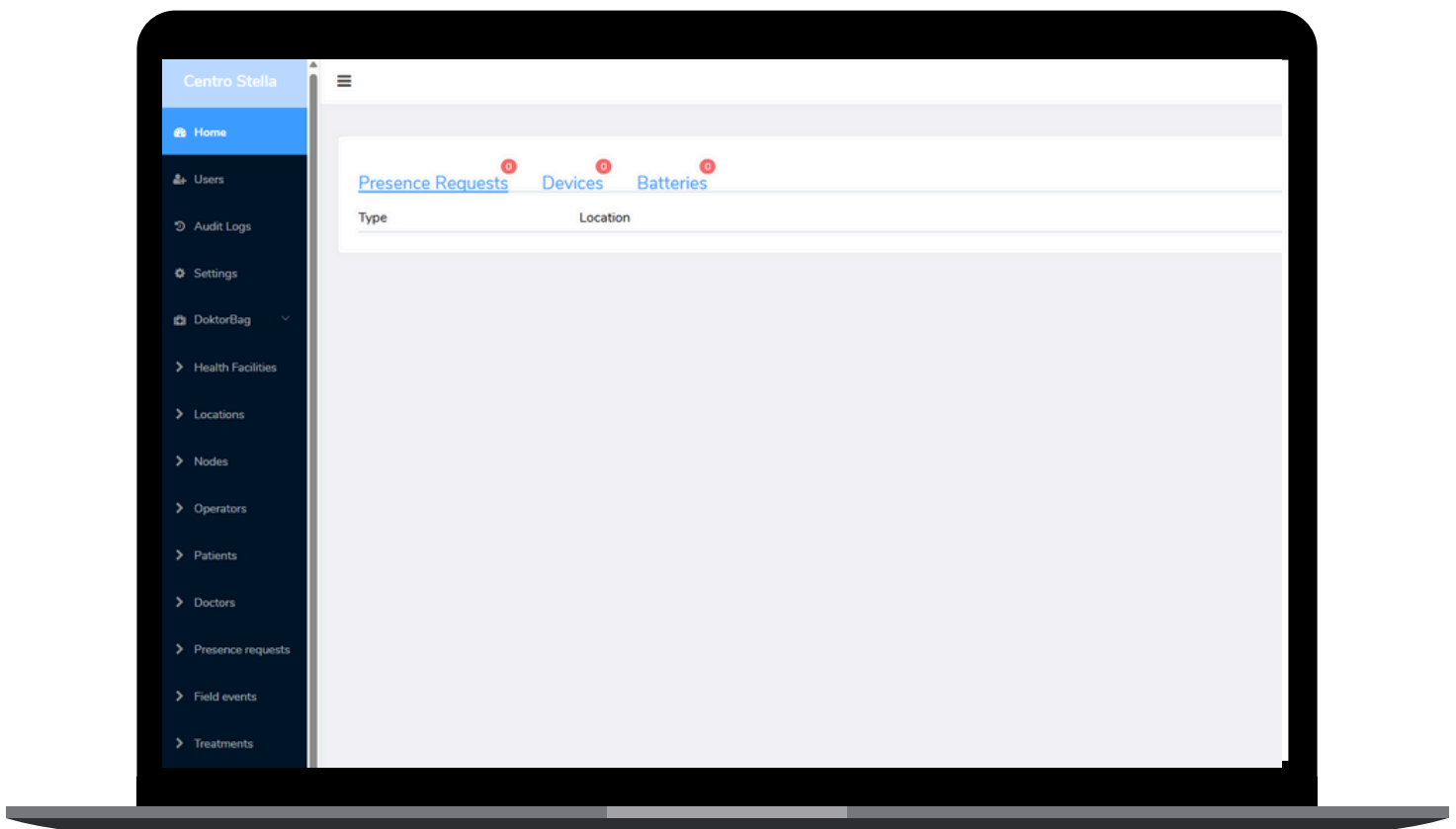
With **CentroStella**, is possible to manage the different services linked to the products offered by Cerotek.

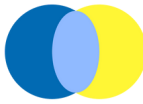
The areas of expertise are **Assistance Call System**, **Management of Therapy**, **Monitoring** and **Doktorbag**.

2. Assistance Call System

2.1 Assistance Call System visualization- PC

With the request of assistance by the the activation of the headboard and the bathroom alarm, in “**Dashboard**” it will be possible to see:

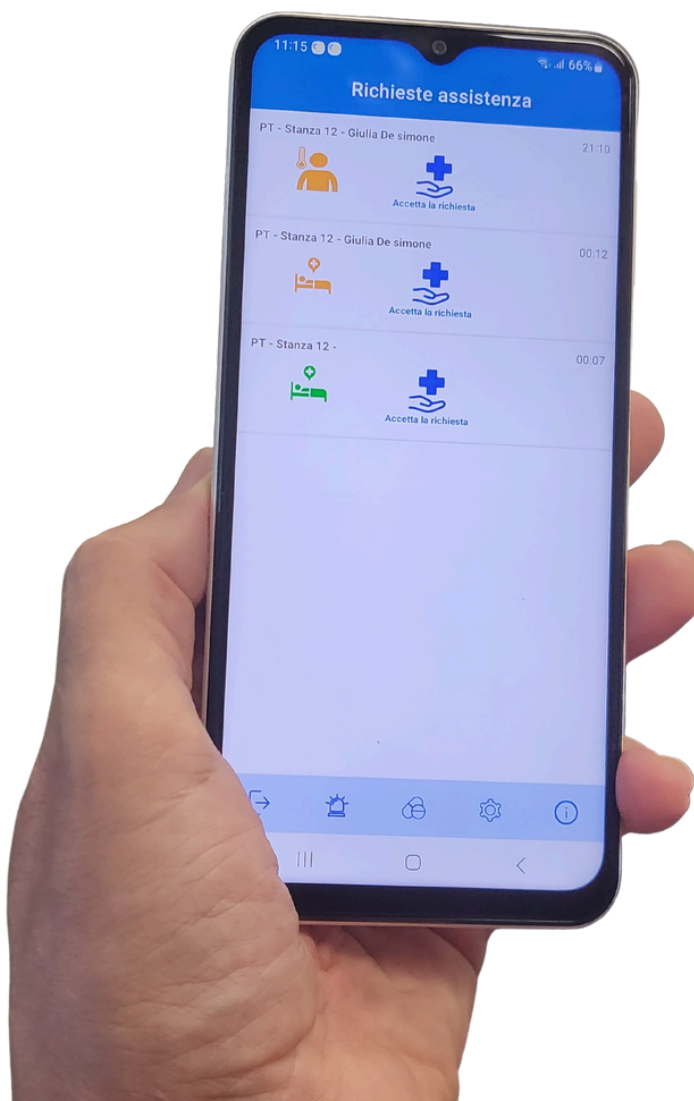




- in “**presence requests**”, the assistance calls with the type of request, the name of the patient, the number of the room and the time passed from the activation of the call.
- in “**Devices**” are shown the ones with absent signal. This is possible thanks to the function **keep alive** that is integrated to the Assisted Call System.
- in “**Batteries**” are listed the devices with low battery and the rooms where they’re located.

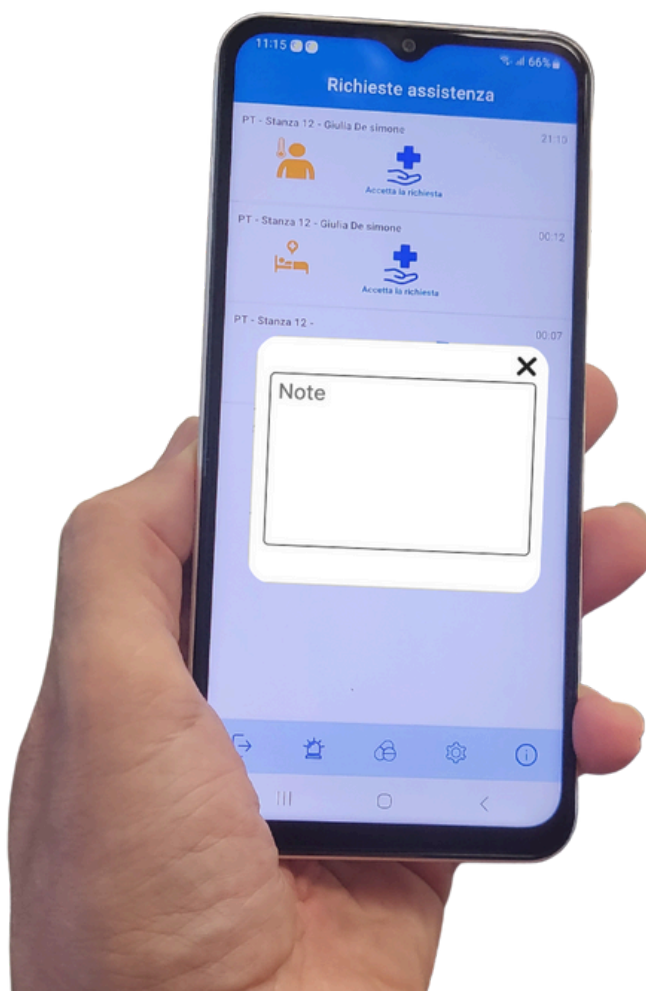
2.2. Assistance Call System visualization- App

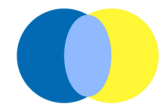
At the same time, after accessing to the App with given credentials, healthcare workers can see the notification of a request of assistance.





Taking charge of the call, it will be possible to add **notes** during the closing process of the request of assistance.





2.3 Presence requests

In the “**presence requests**” section, it will be possible to visualize the assistance call history, with the possibility to download the datas, selecting filters.

It will be possible to visualize the **type of alarm**, the **number of the room**, the **operator in charge**, the **patient**, the **status**, the **severity**, **time and date** when the call was activated, **time and date** in which the call had been closed and the duration of the intervention.

Dashboard > Presence requests

Presence requests

+ New Import Delete Audit Logs Export to Excel

Filters

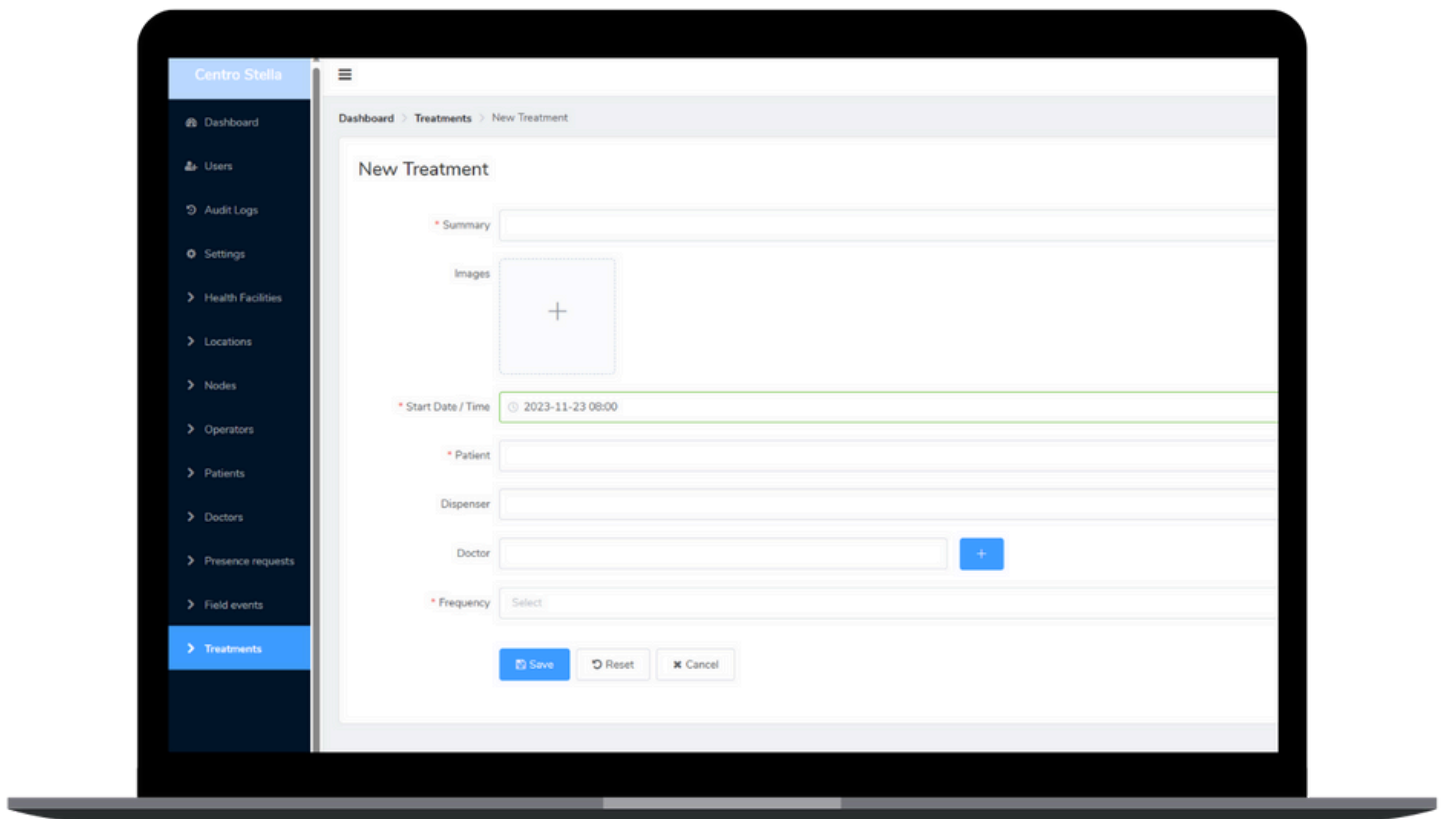
<input type="checkbox"/>	Type	Location	Operator	Patient	Status	Severity	Node	Open
<input type="checkbox"/>	Temperature	PT - Stanza 12		Paziente 36	Open	Major	cSensor_i000_36	2023-07-07
<input type="checkbox"/>	Temperature	PT - Stanza 12		Mauri 37	Open	Major	cSensor012_9_37	2023-07-08
<input type="checkbox"/>	Temperature	PT - Stanza 12		Paziente 38	Open	Major	cSensor012_9_38	2023-07-01
<input type="checkbox"/>	Temperature	PT - Stanza 12		Giulia De simone	Open	Major	cSensor012_9_32	2023-07-03
<input type="checkbox"/>	Headboard	Ingresso			Closed	Minor	bagno	2023-07-06



3 Management of Therapy

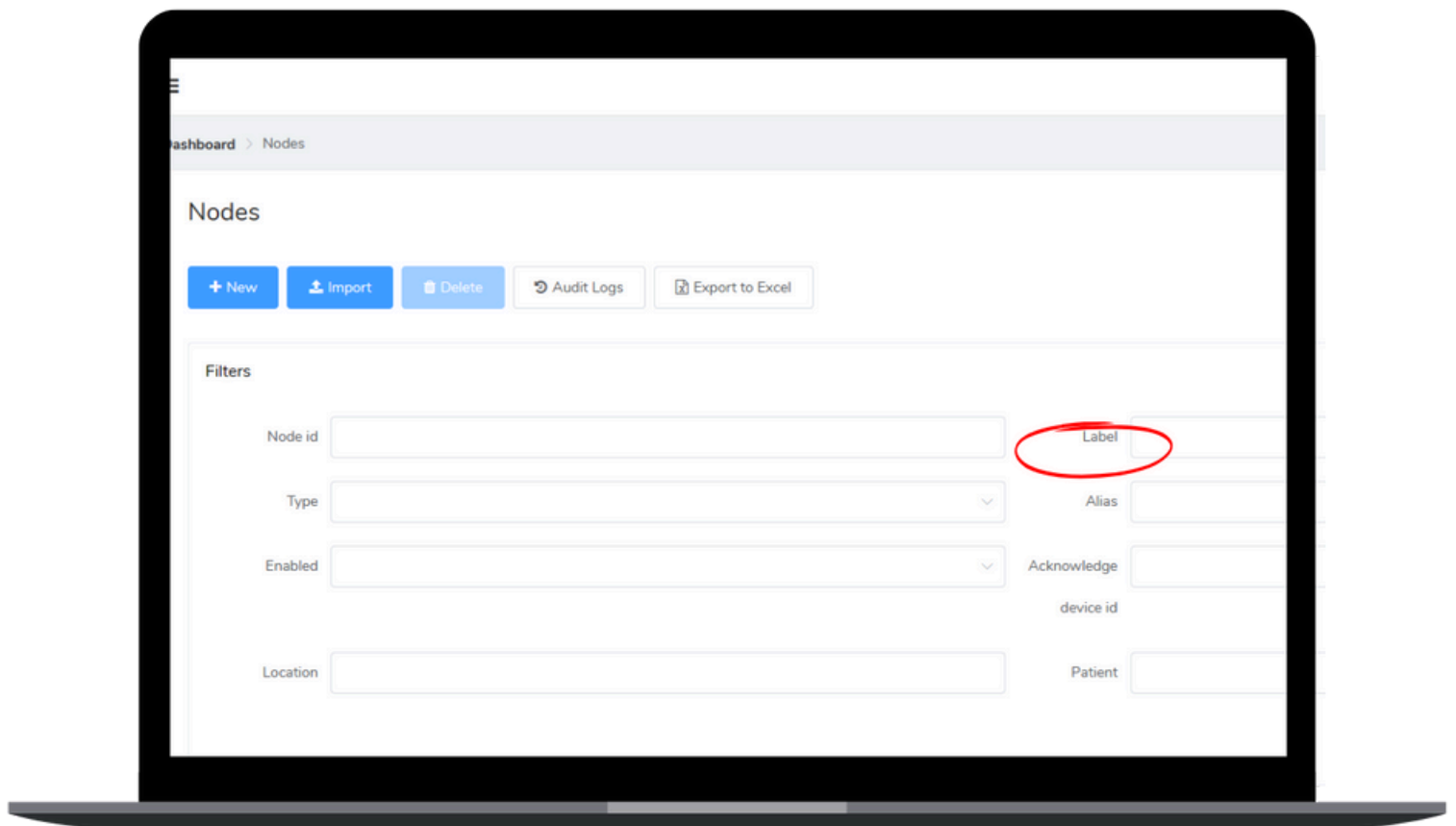
3.1. Uploading of Assisted's Therapy

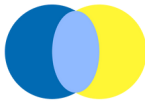
After the uploading of the patient's anagraphic, it will be possible to upload the therapy. In the "**Treatments**" section, clicking on "**New**" is possible to upload the medicine and its description. In addition to the picture, the date of beginning and end and the frequency, the prescriber needs to be added. A **NFC Tag** will be given to every person in order to guarantee the administration of the **Right therapy** to the **Right person** at the **Right time**.



3.2. pairing of the Node with the Right Person

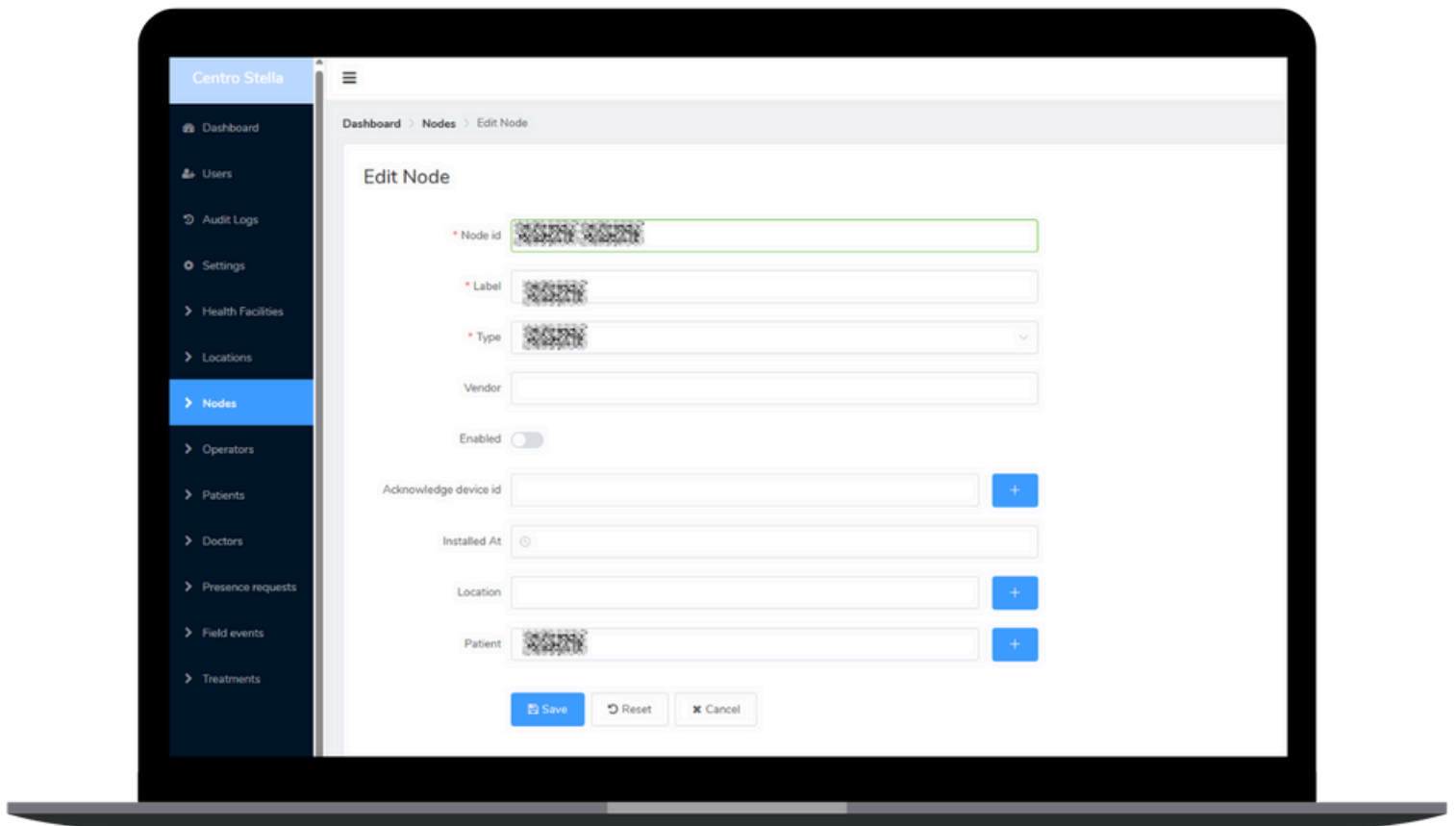
In the “**nodes**” section, selecting the filters, it will be possible to pair the NFC tag with the Right Person. Writing the NFC tag number in the “Label” field, it will be possible to start the research.





After finding the right NFC Tag, it will be necessary to click on “**edit**” and the following screen will appear.

Clicking on “**patient**”, it will be possible to select the patient previously uploaded and pair the NFC Tag.

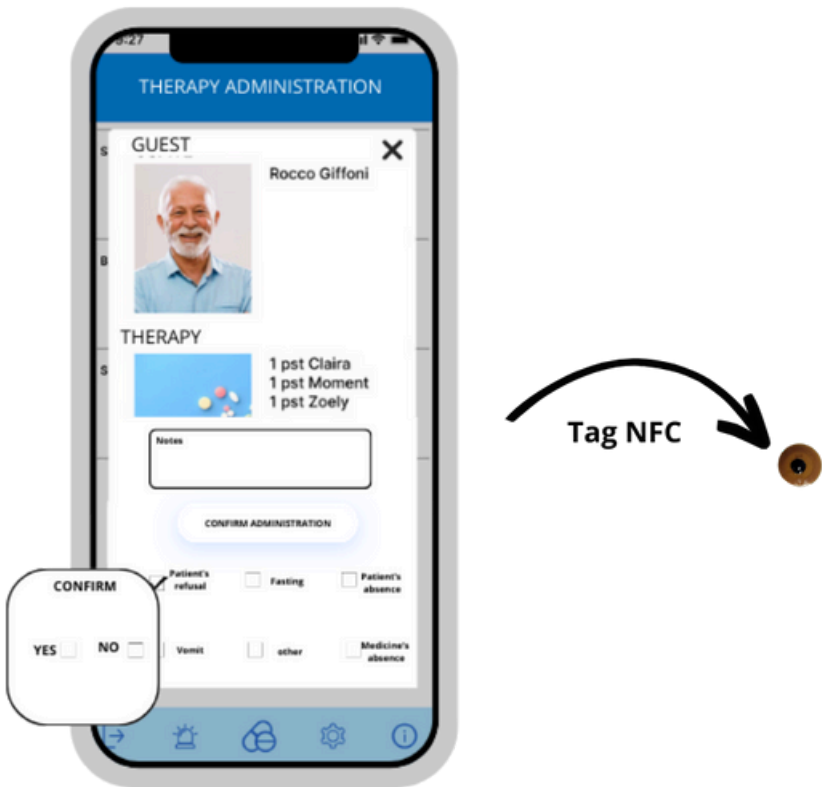


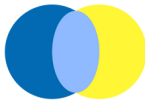


3.3. Administration of the Therapy

Getting the smartphone with the App closer to the patient's NFC Tag, the **First Name** and **Last Name** of the guest with the **picture**, a **notes field**, the **"confirm administration"** button to push once the administration of the therapy is completed will appear.

In case the therapy is not administered, under the confirmation button there are 6 voices (patient's refuse, fast, patient's absence, vomit, other, medicine's lack) that can be chosen to motivate the non-administration of the therapy. Once one of the voices is picked, a confirmation button will appear. Clicking "yes", the page will automatically close; clicking "no", the page will return to the administration confirmation screen.

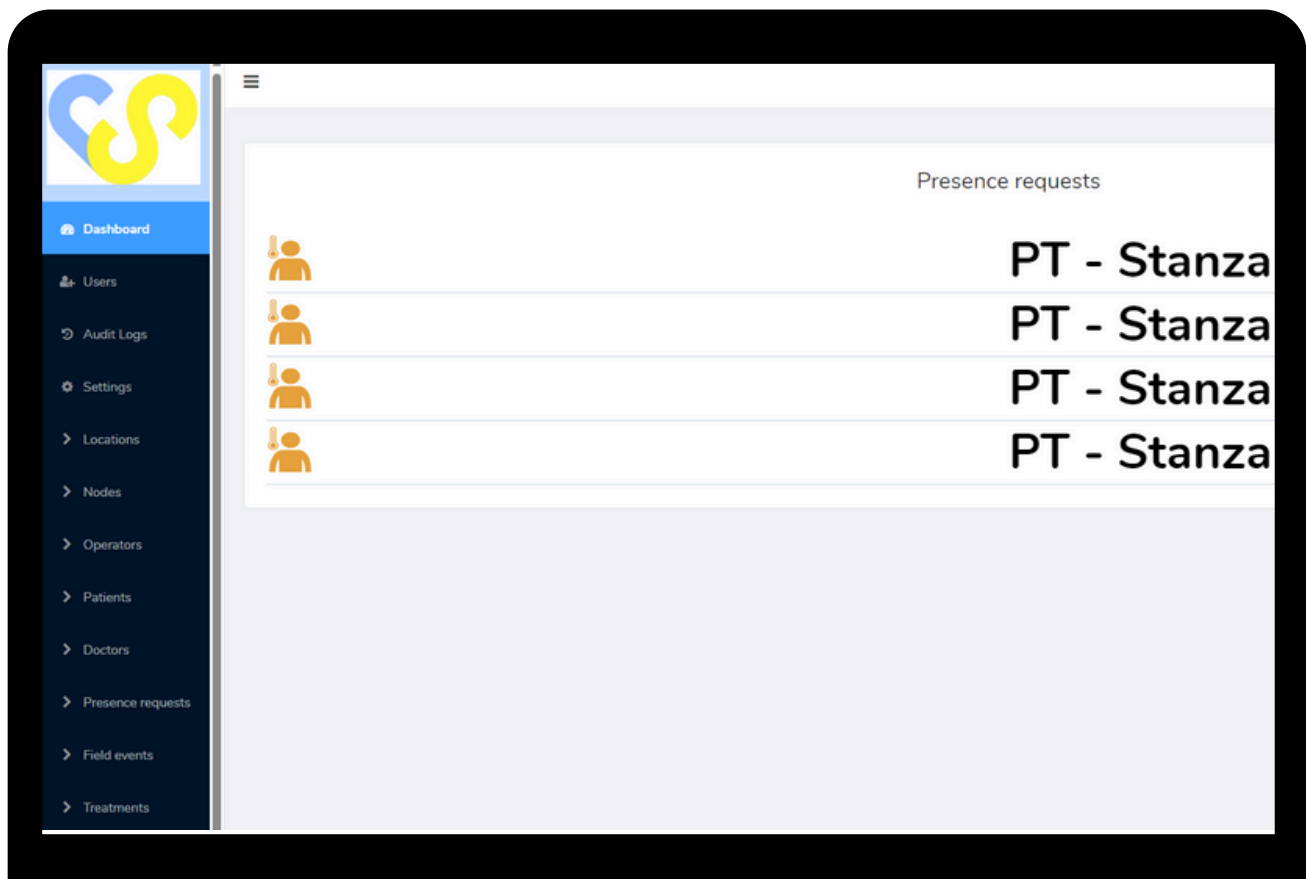




4. Monitoring

4.1 Visualization of iSensor's alarm- PC

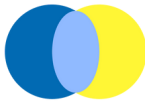
With the activation of **iSensor's alarm** caused by the variation of **body temperature, position of the guest, fall or shaking**, in the Dashboard you can see the requests of presence. A part from the **type of alarm**, it will be possible to see the **name of the patient**, the **number of the room** and the **time passed** since the alarm activated.



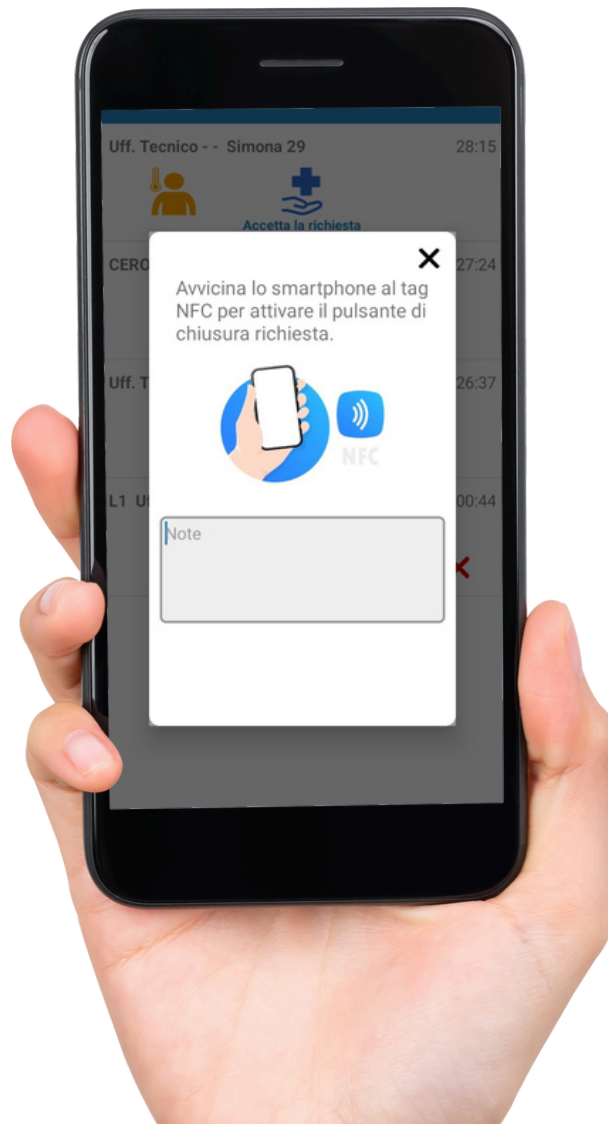
4.2. Visualization of iSensor's alarm- APP

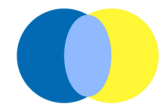
At the same time, accessing to the **App** with given credentials, the operator can see the iSensor's alarms that had been activated with: the **type of alarm**, the **number of the room**, the **patient** and the **time passed** since the activation of the alarm.





Taking in charge the request, the alarm notification will result under the operator's name. To close the intervention, the operator will have to put the smartphone with given App close to the sensor, with the possibility to add notes in the given field.





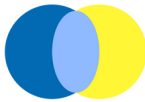
4.3 Request of presence

In the “**Request of Presence**” section, it will be possible to visualize the history of the alarms signals with the possibility to download a file with all the datas according to the filters selected.

It will be possible to visualize the **type of alarm**, the **number of the room**, the **operator that intervened**, the **state of the intervention**, the **gravity**, the **date and time** in which the intervention started, the **date and time** in which the intervention closed and the duration of the intervention.

The screenshot displays the 'Presence requests' dashboard. The sidebar on the left contains the following menu items: Dashboard, Users, Audit Logs, Settings, Locations, Nodes, Operators, Patients, Doctors, **Presence requests** (highlighted), Field events, and Treatments. The main content area is titled 'Presence requests' and includes a breadcrumb 'Dashboard > Presence requests'. Below the title are buttons for '+ New', 'Import', 'Delete', 'Audit Logs', and 'Export to Excel'. A 'Filters' section is present above a table of requests.

<input type="checkbox"/>	Type	Location	Operator	Patient	Status	Severity	Node	Open At
<input type="checkbox"/>	Temperature	PT - Stanza 12		Paziente 36	Open	Major	csensor_i000_36	2023-09-14 11:07
<input type="checkbox"/>	Temperature	PT - Stanza 12		Mauri 37	Open	Major	cSensor012_9_37	2023-09-14 11:08
<input type="checkbox"/>	Temperature	PT - Stanza 12		Paziente 38	Open	Major	cSensor012_9_38	2023-09-14 11:01
<input type="checkbox"/>	Temperature	PT - Stanza 12		Giulia De simone	Open	Major	cSensor012_9_32	2023-09-14 11:03
<input type="checkbox"/>	Headboard	Ingresso			Closed	Minor	bagno	2023-09-15 11:06
<input type="checkbox"/>	Headboard	Ingresso			Closed	Major	bagno	2023-09-15 11:06

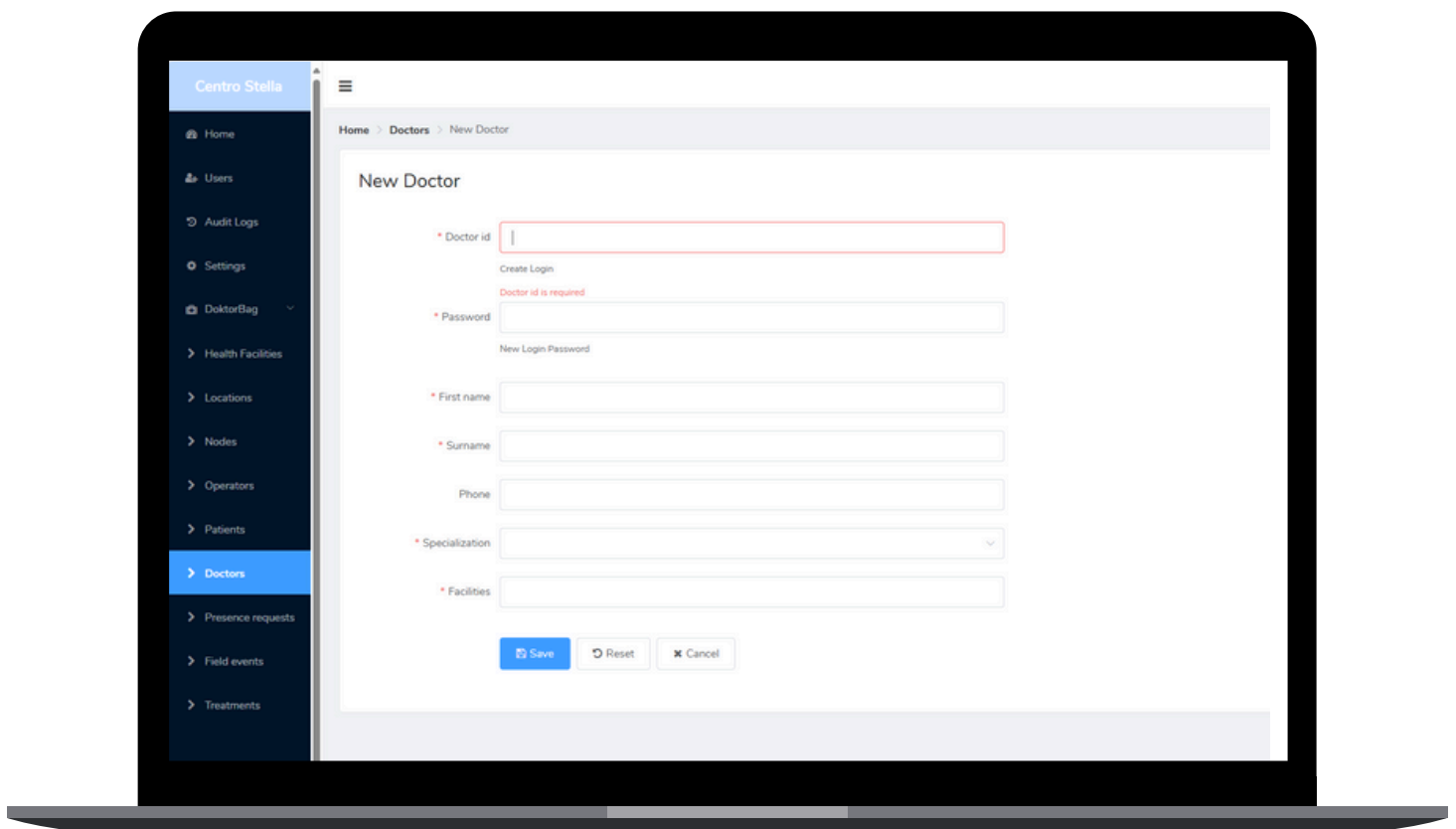


5. Doktorbag

5.1 Master Data

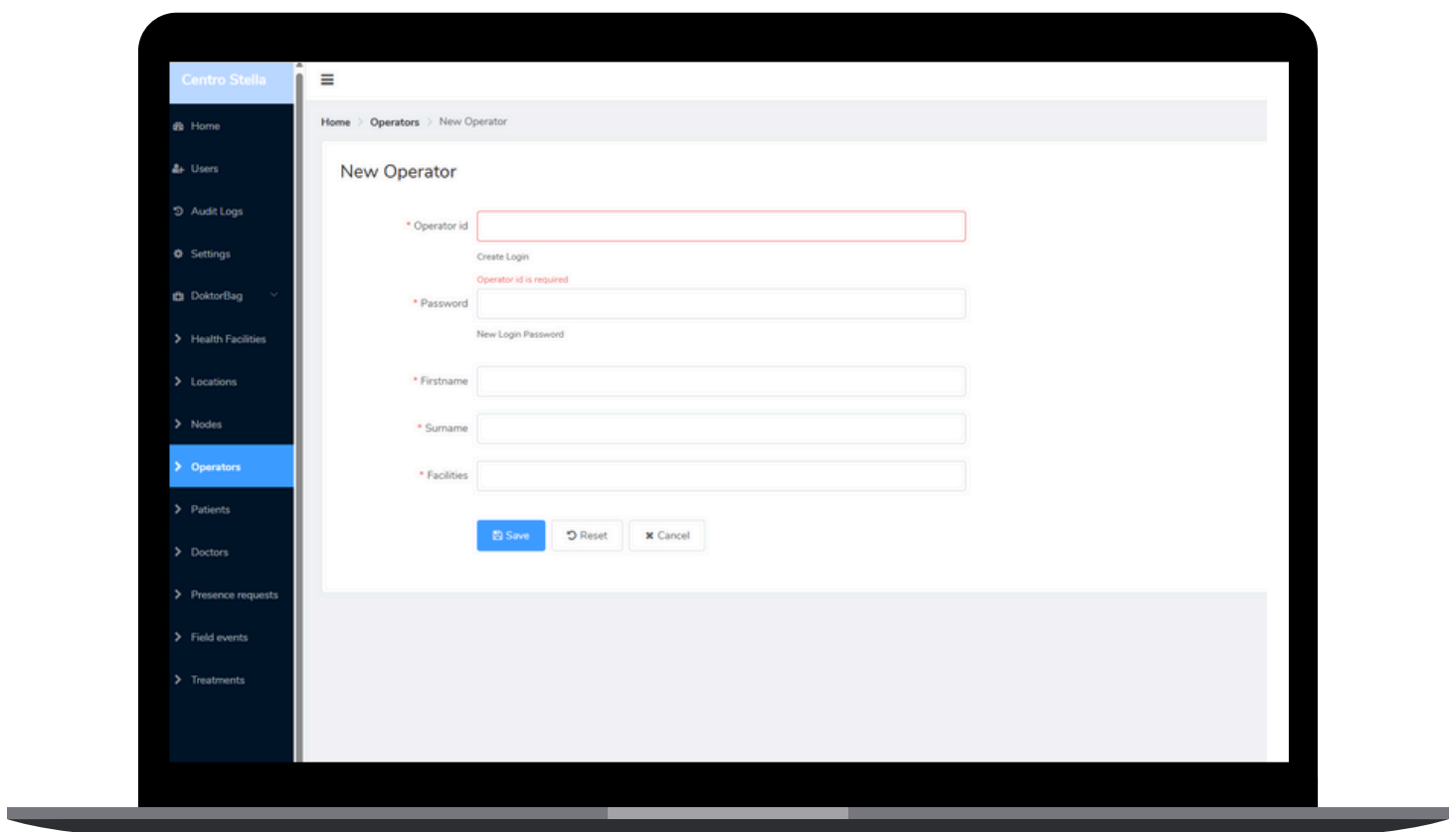
5.1.1 Doctors

On CentroStella, in the “**doctors**” section, a list of the doctors registered will appear. Selecting the given icon +, the master data of the single doctor will be uploaded. It will be **necessary** to insert the **Surname**, **Name**, the **Specialization**, the **Structure**, the **phone number** and the **email address**.



5.1.2 Operators

To guarantee the Operators' access to the App, the **DoktorbagAdmin** needs to select the "**Operators**" section. Clicking on "**New**", the **Username**, the **First Name** and the **Last Name** and the **facility** where they operate need to be inserted.



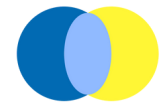


5.1.3 Assistees

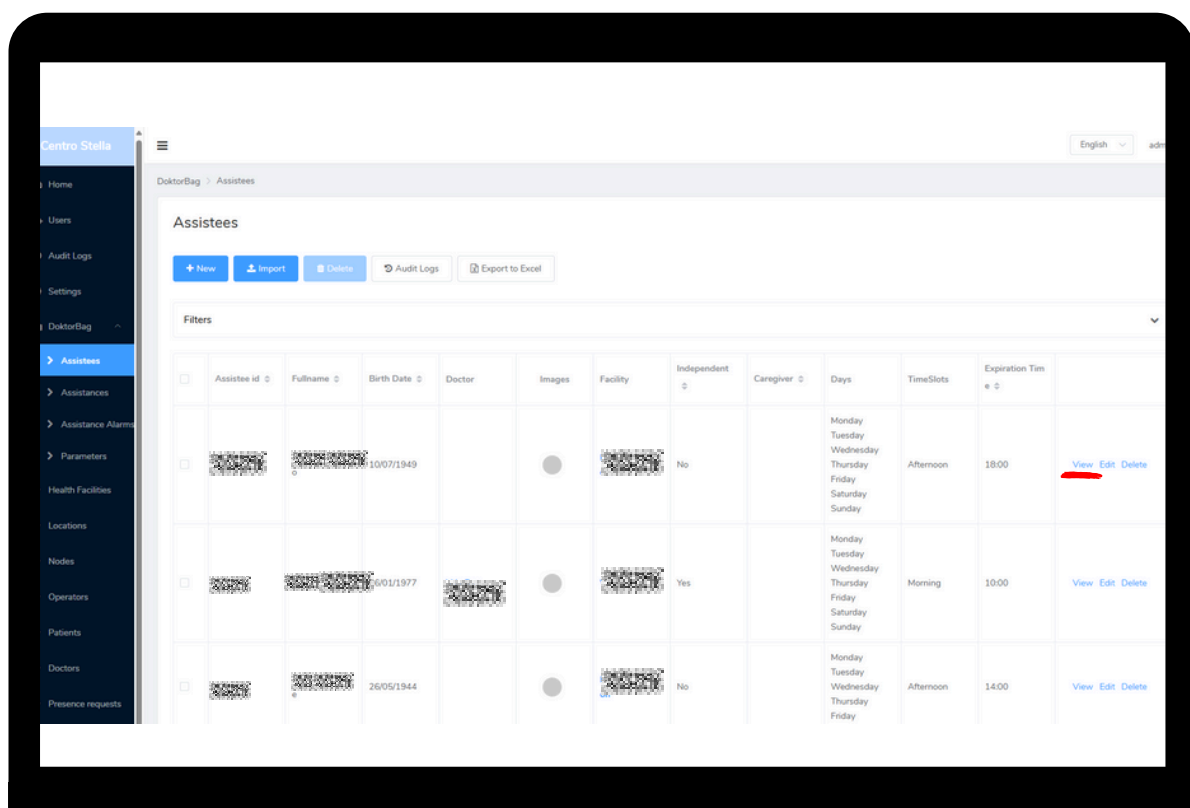
In the section “**Doktorbag**” in **ASSISTEES**, clicking “**New**”, it will be mandatory to insert: **Username**, the **password**, **name**, **surname**, **date of birth**, **sex**, **height**, the **Social Security Card**, the **parameters** that need to be monitored, **the days** selected to do the measurements, **the time slot** (morning, afternoon), the **expiry date** of the assistance’s notification and the **Structure**.

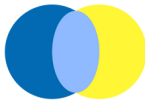
The screenshot shows the 'New Assisatee' form in the Centro Stella application. The form is displayed on a laptop screen. The left sidebar shows the navigation menu with 'Assistees' selected. The main content area shows the 'New Assisatee' form with various input fields and a 'Create Login' button. The form fields include:

- * Assisatee id (text input)
- Create Login (button)
- * Password (text input)
- New Login Password (text input)
- * First name (text input)
- * Surname (text input)
- * Birth Date (date picker)
- * Sex (dropdown menu)
- * Height (text input)
- * Health card code (text input)
- Health card validity (date picker)
- Address of Residence (text input)
- City of Residence (text input)



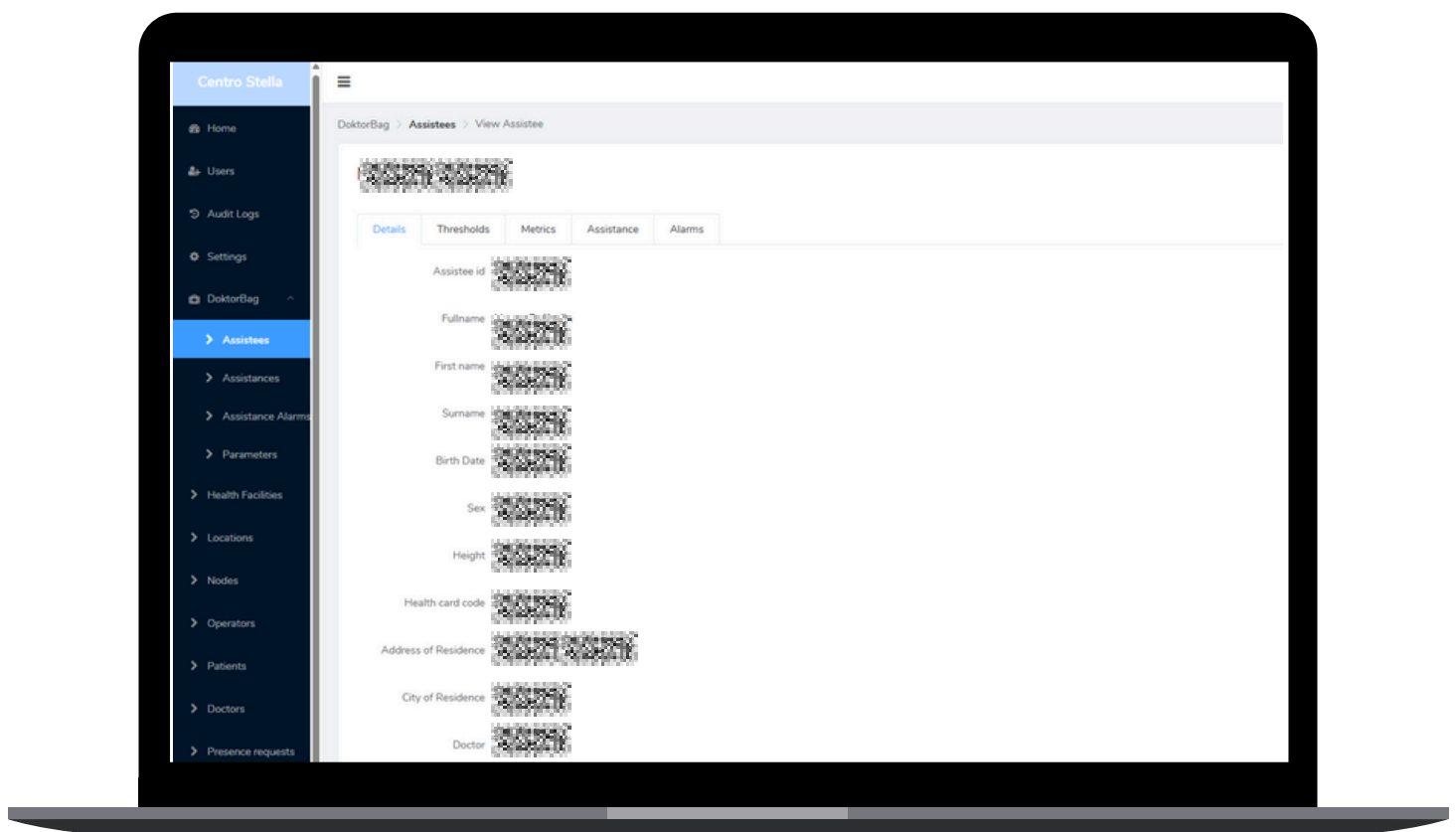
In ASSISTEES, it will be available the list of the assisted. To **schedule the assistances**, set the **thresholds** and **manage the alarms**, it will be necessary to click “**view**”

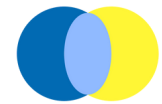





Clicking on “**view**”, this screen will be available.

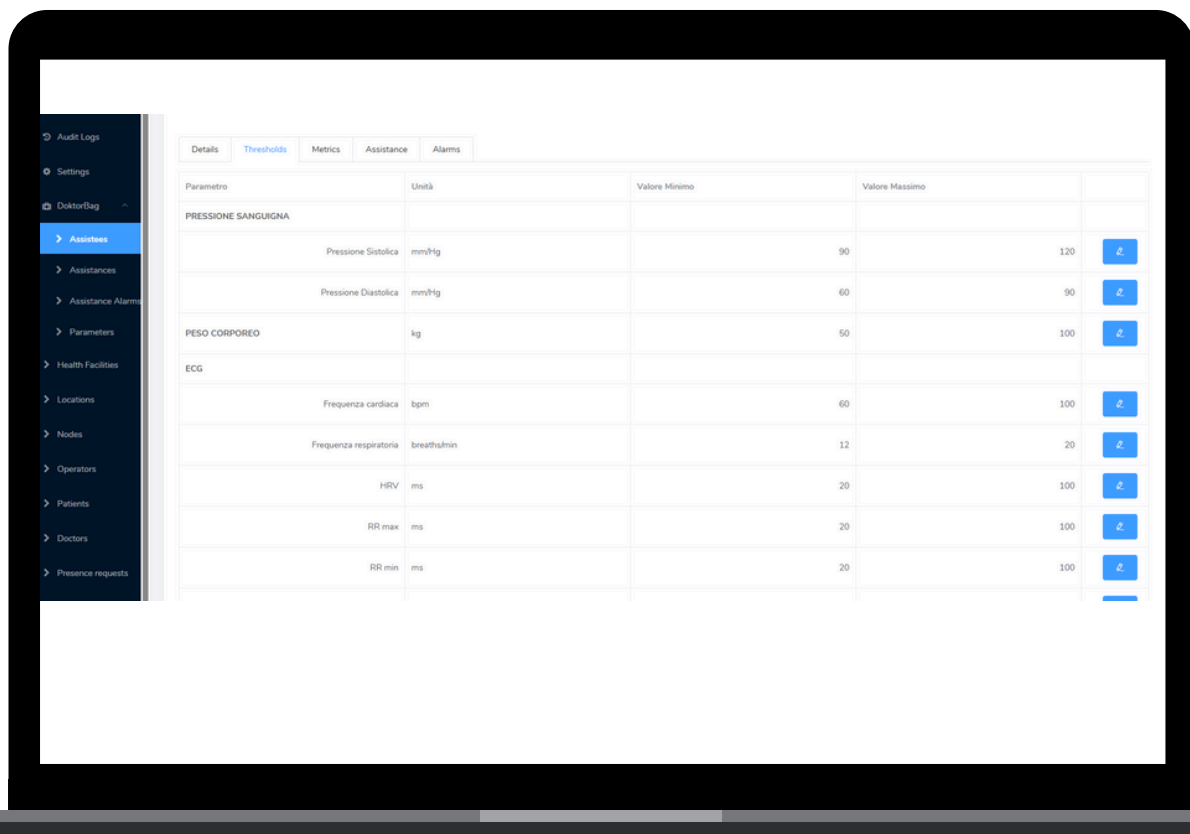
In “**Details**”, the data previously uploaded about the assisted are available, with the possibility to change them choosing “edit”.











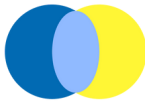


5.2 Thresholds

In “**Thresholds**”, it will be possible to set the minimum and maximum value for each parameter by clicking this icon 



Parametro	Unità	Valore Minimo	Valore Massimo	
PRESSIONE SANGUIGNA				
Pressione Sistolica	mmHg		90	120 
Pressione Diastolica	mmHg		60	90 
PESO CORPOREO				
	kg		50	100 
ECG				
Frequenza cardiaca	bpm		60	100 
Frequenza respiratoria	breath/min		12	20 
HRV	ms		20	100 
RR max	ms		20	100 
RR min	ms		20	100 



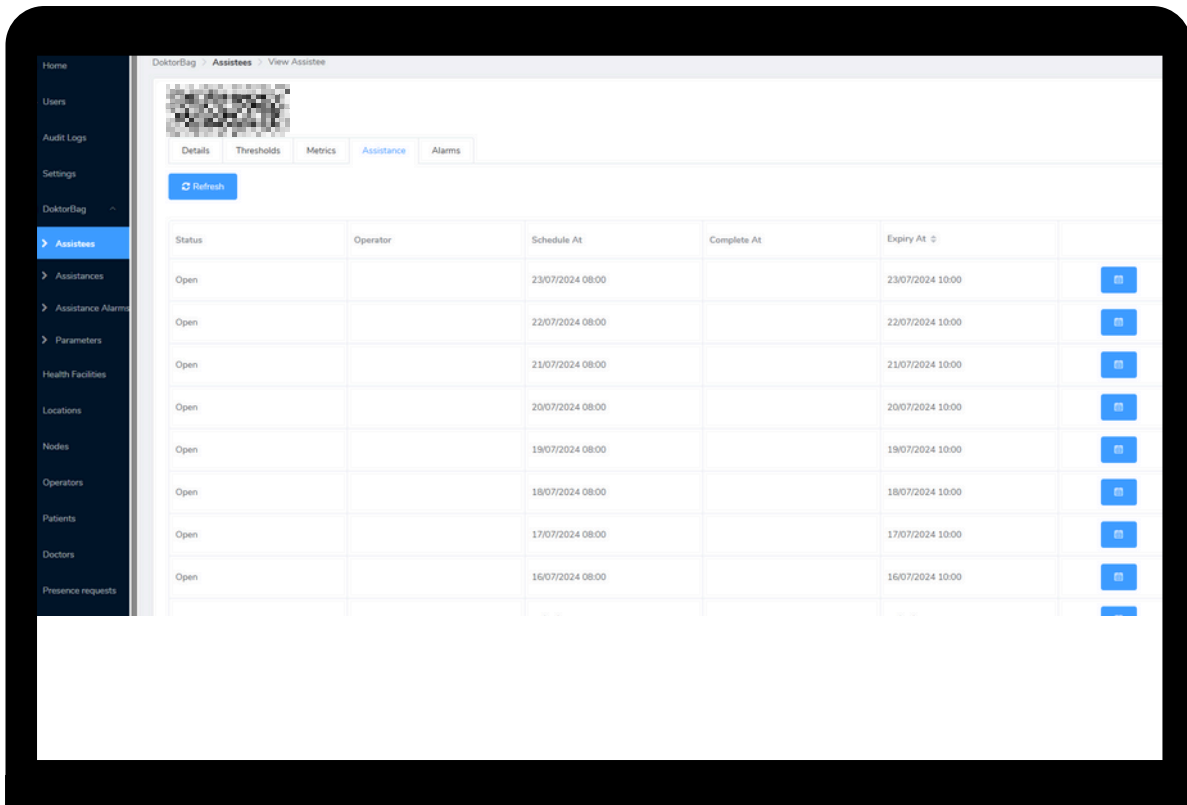
5.3 Trend's analysis

In “**Metrics**”, there will be available graphics with all the measurements done in order to be able to analyze the values registered.


Parametro	Unità	Minimo/Massimo	Valore	Data/Ora	Andamento		
PRESSIONE SANGUIGNA							
Pressione Sistolica	mm/Hg		90/120	115	Jul 12, 2024 1:24 PM	--	IM
Pressione Diastolica	mm/Hg		60/90	72	Jul 12, 2024 1:24 PM	--	
PESO CORPOREO							
	kg		50/100	58,85	Jul 12, 2024 7:41 AM	--	IM
ECG							
							IM
Frequenza cardiaca							
	bpm		60/100	77	Jul 12, 2024 1:26 PM	--	
Frequenza respiratoria							
	breaths/min		12/20	11	Jul 12, 2024 1:26 PM	--	
HRV							
	ms		20/100	19	Jul 12, 2024 1:26 PM	--	
RR max							
	ms		20/100	816	Jul 12, 2024 1:26 PM	--	
RR min							
	ms		20/100	730	Jul 12, 2024 1:26 PM	--	
SATURAZIONE							
	%		95/100	99	Jul 12, 2024 1:25 PM	--	IM
TEMPERATURA CORPOREA							
	°C		37/38	36,9	Jul 16, 2024 3:36 PM	--	IM
IDRATAZIONE CORPOREA							
	%		50/70	46,2	Jul 12, 2024 7:41 AM	--	IM

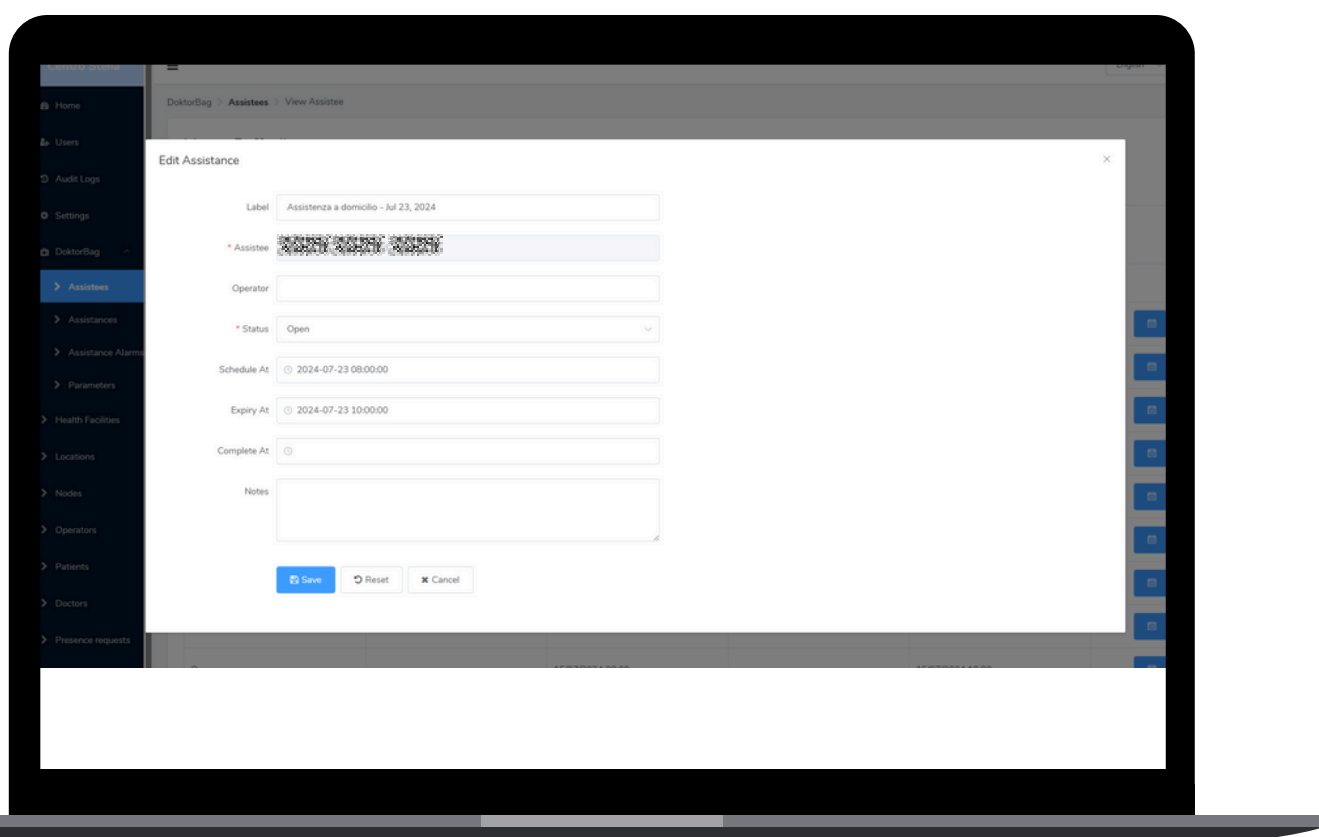
5.4 Home Assistance

In “**Assistance**”, it will be possible to assign an assistance to an operator. In order to generate an assistance, it will be necessary to click “**Refresh**”. After that, it will be possible to assign the assistance.

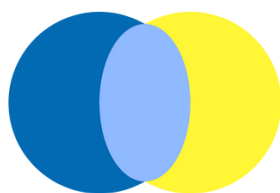




It will be necessary to click on the calendar icon (), choose between the operators that can be selected and click “save” to complete the operation.



Silver Years, to be Safe and Free



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