





D3.2 ESTABLISH GUI

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2. Introduction

This document serves as an user's guide for those who want to understand how the ESTABLISH demonstrator works.

The document presents the pages displayed by the application to the user, depending on the user role, and on the taks expected.





3. Demonstrator execution

Starting URL

The application currently works at the URL: http://35.178.115.254:8680/EstablishCoordinator-1.0

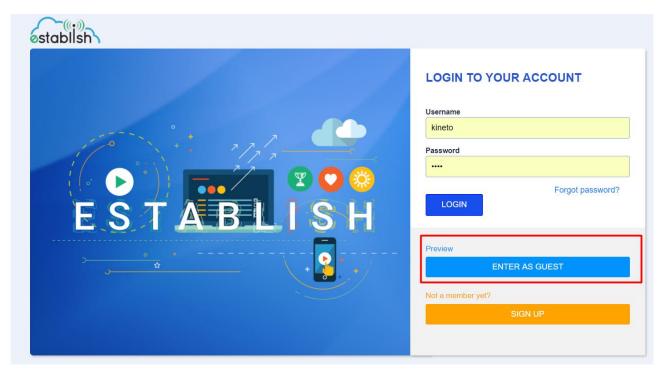
Starting page

User will use the demonstrator to visualize data and graphic elements for the 3 roles available in the Establish platform. He could access the platform as a **guest**, a **pacient** or a **kinetotherapist**.

The user will be directed to the correct functionality depending on the role assigned.

Enter as guest

User clicks on **Enter as guest** button. The **Dashboard** page is displayed. A menu having only the option **Dashboard** is displayed on the left side. The graphical components that represent averages of measurements of some sensors are displayed in the reduced view (link **View more** is available to expand). By default, the tab **Current Data** is displayed. This tab is supposed to display real-time measurements from up to 8 environmental sensors and weather data. User could select a specific location to display values (each location is associated to many sensors or weather values).







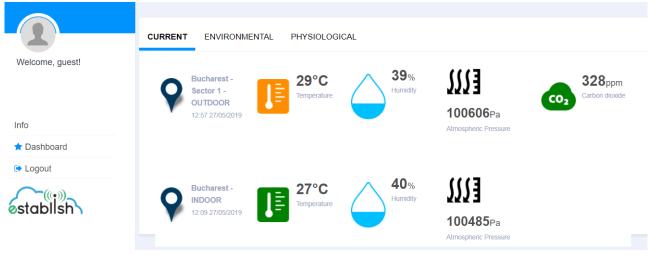


Figure 1 – Dashboard page for guest role

View more

User clicks on **View more** link. The graphical components that represent averages of measurements of some sensors are displayed in the expanded view (link **View less** is available to colapse).

Display Environmental Data tab

User clicks on **Environmental Data** tab. A chart of all measurements recorded for the current day (since 00:00 hour to now) is displayed.

The weather condition related to temperature, pressure and humidity, and a confort index are displayed.







Figure 2 – Hystorical environmental data tab for guest role

More detailed data and filtering can be reached by pressing the title of a chart, then select Edit, like in the next figures.

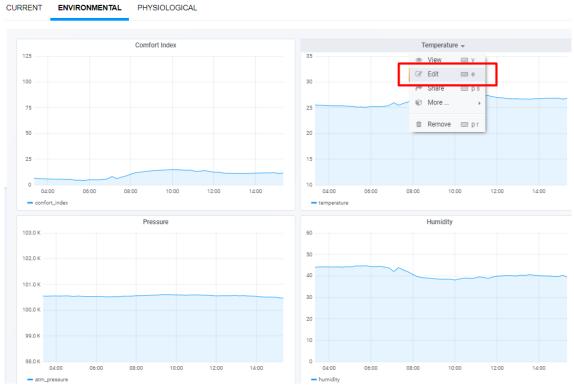


Figure 3 – Hystorical environmental data tab edit





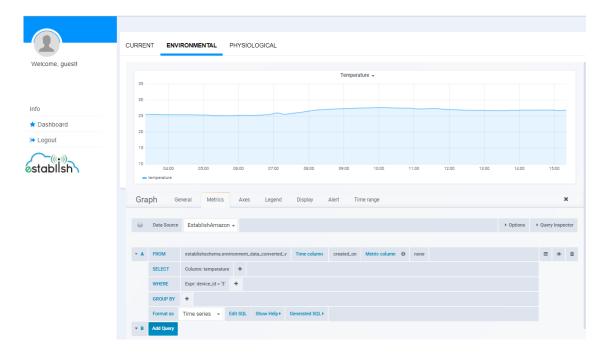


Figure 4 – Hystorical environmental data tab edit

Sign-up as pacient

User clicks on **Sign Up** button. The sign-up form is displayed.

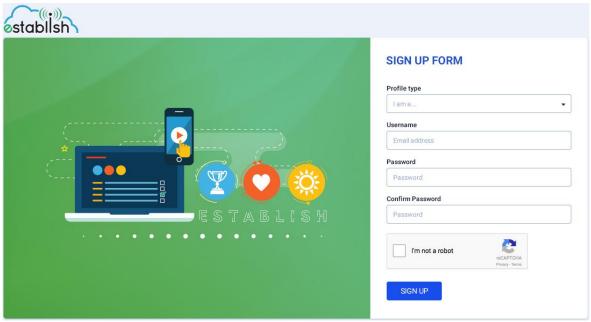


Figure 5 – Sign-up form





User can enter the following values in the fields

- Profile type
- Username
- Password
- Confirm Password
- Captcha code

And clicks the **Sign up** button. User is redirected to the **Login** page.

Login as a patient

User can enter the following values in the fields

- Username
- Password

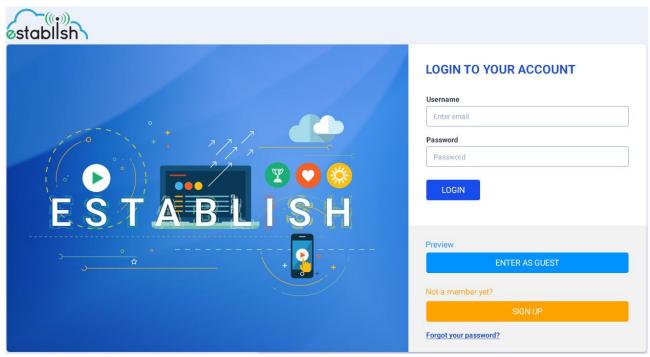


Figure 5 – Login form





And clicks the **Login** button. User is redirected to the **Pin number** page. User could enter the **Pin number** value and then press on **Submit** button.

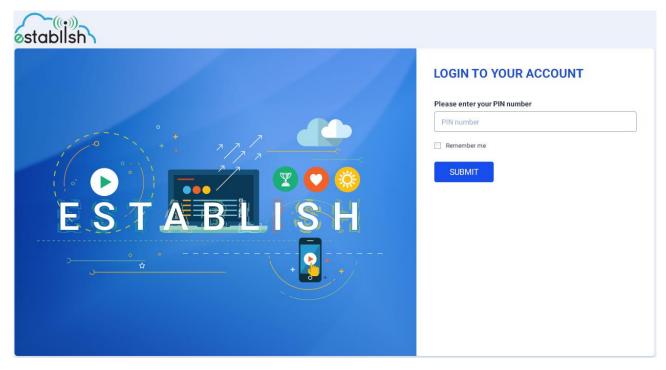


Figure 6 – Pin number authentication form

Display Dashboard page for patient role

The **Dashboard** page is displayed. A menu having the options **Dashboard**, **Alerts**, **Activities**, **Settings and Log-out** is displayed on the left side.

The number of not yet read alerts and the number of the scheduled activities for the current user are shown to the right of the menu items **Alerts** and **Activities**.

On the blue banner on the top of the page there is the **contact data** of the kinetotherapist who works with the current pacient.





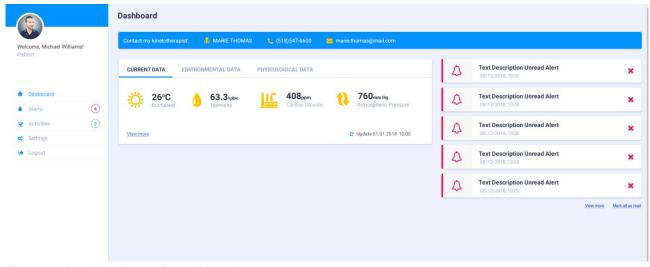


Figure 7 – Dashboard page for **patient** role

The graphical components that represent averages of measurements of some sensors are displayed in the reduced view (link **View more** is available to expand). By default, the tab **Current Data** is displayed. This tab is supposed to display real-time measurements from up to 8 environmental sensors and weather data. The displayed values are measured by sensors associated to the current location of the patient (measured by GPS tracker of the smartphone).

The last 5 alerts are displayed on the right side of the page.

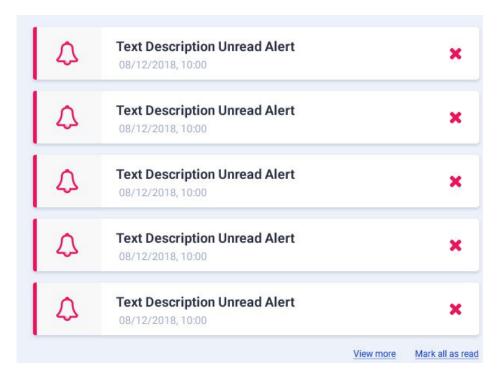


Figure 8 – The last 5 alerts section of the patient dashboard





View more measurements

User clicks on **View more** link below the measurements section. The graphical components that represent averages of measurements of some sensors are displayed in the expanded view (link **View less** is available then to colapse).

Display Environmental Data tab

User clicks on **Environmental Data** tab. A chart of all measurements recorded for the current day (since 00:00 hour to now) is displayed.

The weather condition related to temperature, pressure and humidity, and a confort index are displayed. CURRENT ENVIRONMENTAL PHYSIOLOGICAL Welcome, Subject1! Temperature 125 🖈 Dashboard 2019-05-27 08:40:00 my Schedule Notifications My Activities 04:00 04:00 ☑ Change Password 103 0 K Contact Kineto Logout
 ■ Logout
101.0 k 100.0 k **ostablish** 04:00 Temperature not in normal boundaries. Yellow code of temperature. (Warm weather) (registered: 32.6599998474120028 notification INTERVAL: 30 AND 35) 28.12.2018, 13:05 Temperature not in normal boundaries. Yellow code of temperature. (Warm weather) (registered: 32.3300018310550001 notification INTERVAL: 30 AND 35) 26.10.2018, 15:51

Figure 9 - Environmental data

The displayed values are measured by sensors associated to the current location of the patient (measured by GPS tracker of the smartphone).

More details, filter and editing is possible like it was described for the guest user. Display Physiological Data tab





User clicks on **Physiological Data** tab. A list of all measurements recorded for the current day (since 00:00 hour to now) is displayed.



Figure 10 - Healt individual data

Display calendar

In the calendar there are presented all activities of a patient. The activities can have many statuses, and the presentation is using a color scheme for that. Whenselected an activity, then details of the activity are displayed, and the user can do specific actions depending on the status of an action.

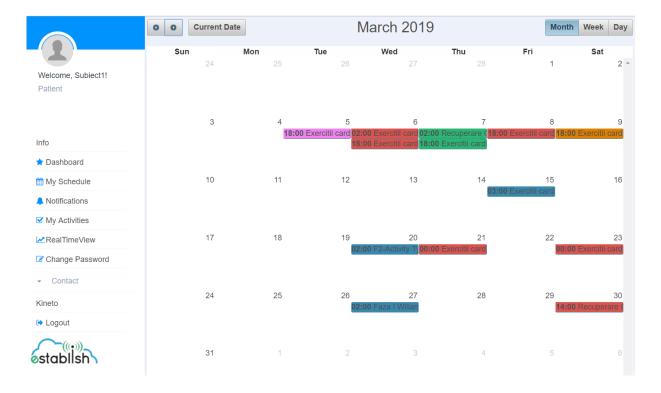


Figure 11- Display Calendar





Display activities

The planned activities are displayed here.

User can filter based on time windows or activity statuses.

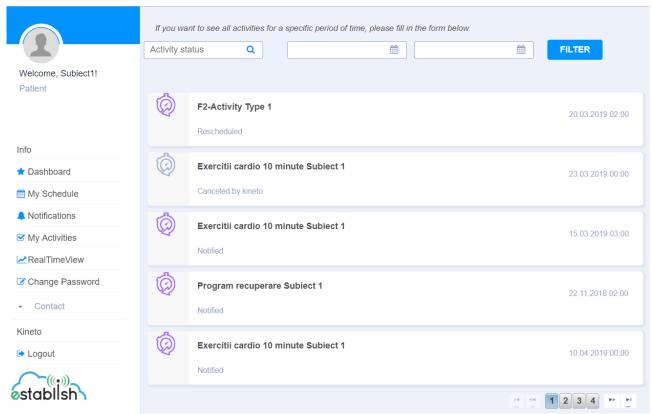


Figure 12- Display activities

Real time view

This view displayes the real time data received from sensors, and valid for the last period of time. It refers to weather data, air quality data,

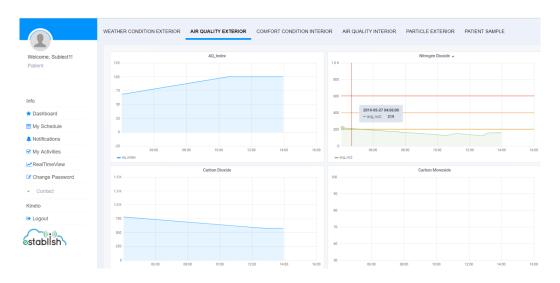


Figure 13- Real time view





Login as a kinetotherapist

User can enter the following values in the fields

- Username
- Password

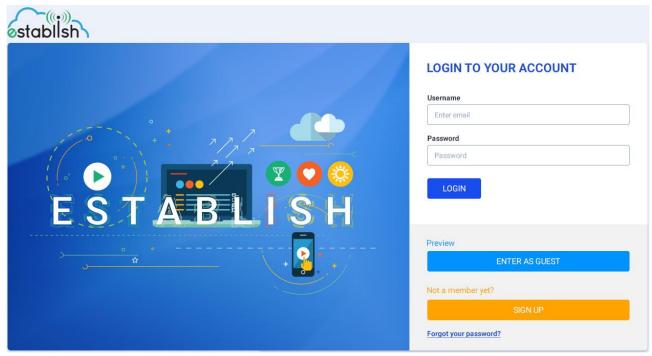


Figure 14 – Login form

And clicks the **Login** button. User is redirected to the **Pin number** page. User could enter the **Pin number** value and then press on **Submit** button.





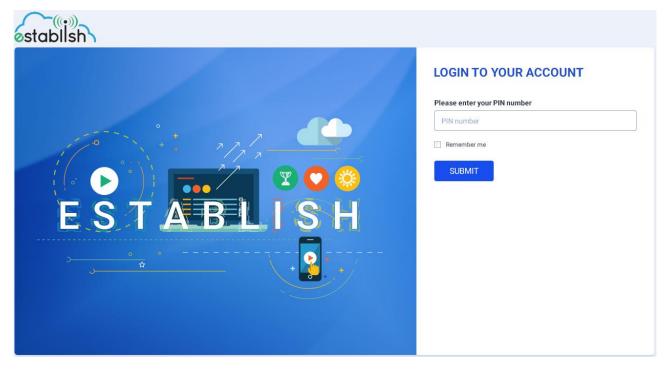


Figure 15 – Pin number authentication form

Display Dashboard page for kinetotherapist role

The **Dashboard** page is displayed. A menu having the options **Dashboard**, **Alerts**, **Patients**, **Activities**, **Settings and Log-out** is displayed on the left side.

The number of not yet read alerts and the number of the scheduled activities for the current user are shown to the right of the menu items **Alerts** and **Activities**.

The displayed dashboard data is associated to a selected patient. The selection is done in the selection list named **Select a patient**. On the blue banner on the top of the page there is displayed the name of the current selected patient.





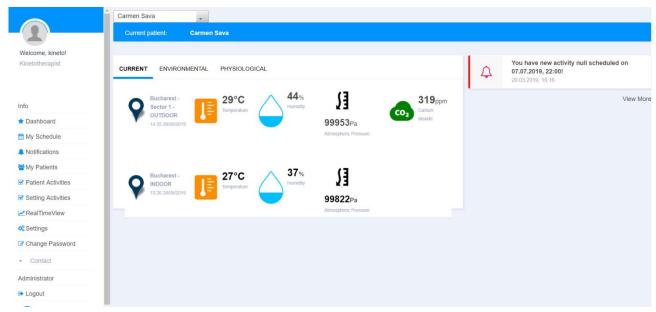


Figure 16 - Dashboard for the kinetotherapist role

The graphical components that represent averages of measurements of some sensors are displayed in the reduced view (link **View more** is available to expand). By default, the tab **Current Data** is displayed. This tab is supposed to display real-time measurements from up to 8 environmental sensors and weather data. The displayed values are measured by sensors associated to the current location of the patient (measured by GPS tracker of the smartphone, if available).

The last 5 alerts are displayed on the right side of the page.

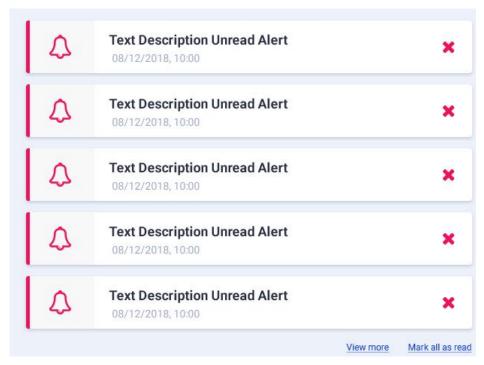


Figure 17 – The last 5 alerts section of the kinetotherapist dashboard





Display Environmental Data tab

User clicks on **Environmental Data** tab. A list of all measurements recorded for the current day (since 00:00 hour to now) is displayed.

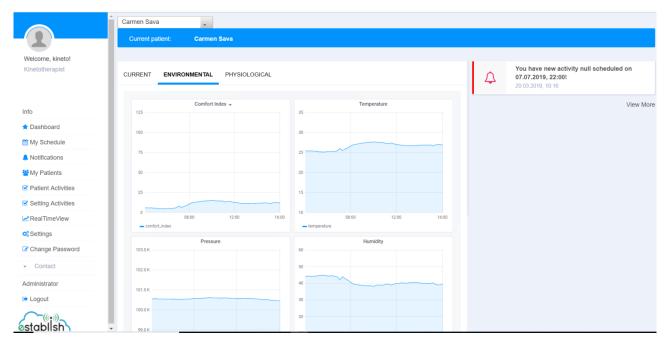


Figure 18 - The last 5 alerts section of the kinetotherapist dashboard

The displayed values are measured by sensors associated to the current location of the patient (measured by GPS tracker of the smartphone, if available).

The number of displayed records and a navigator control set is displayed at the bottom part of the screen.

More details, filter and editing is possible like it was described for the guest user.





Display Physiological Data tab

User clicks on Physiological Data tab. A list of all measurements recorded for the current day (since 00:00 hour to now) is displayed. The data refers to the selected patient. This patient should be assigned to the logged kineto.

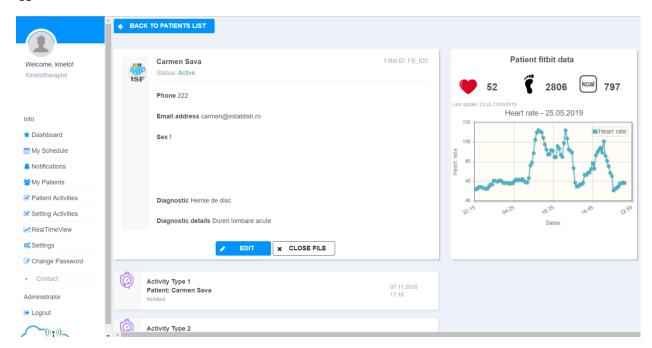


Figure 19 - Physiological Data tab

The displayed values are measured by wearable devices.

More details, filter and editing is possible like it was described for the guest user.

View more alerts

Clicking on **View more** link below the alerts section, redirects the user to the page **Alerts**.





View Notifications

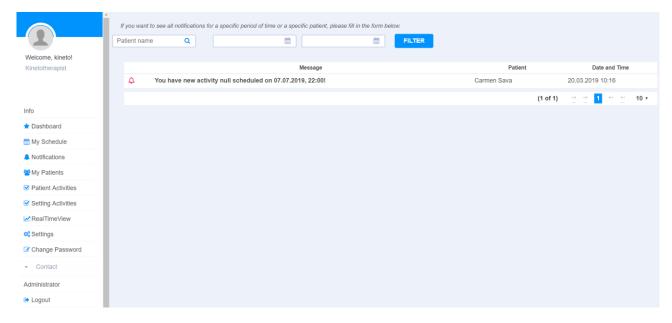


Figure 20 – Notifications view

View calendar

In the calendar there are presented all activities of a patient. The activities can have many statuses, and the presentation is using a color scheme for that. Whenselected an activity, then details of the activity are displayed, and the user can do specific actions depending on the status of an action.





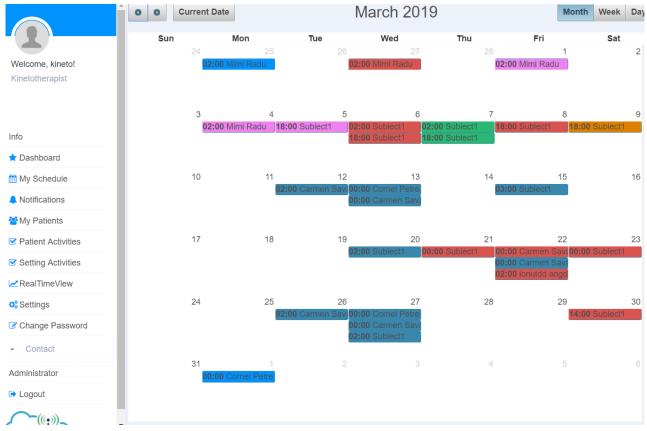


Figure 21 - Calendar





View My Patients

The list displays all the patiens assigned to a kinetoterapeut.

Then the user can select a patient and see the activities, the status, and the evolution. The details of activities are also visible

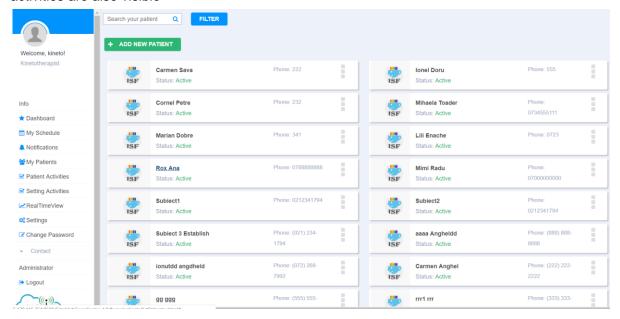


Figure 22- Patients view

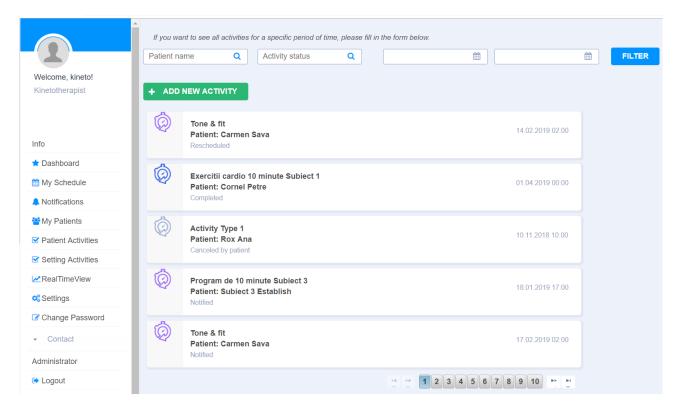


Figure 23- Patients activities





Setting Activities

In this view, the user can define for each patient the activities to follow.

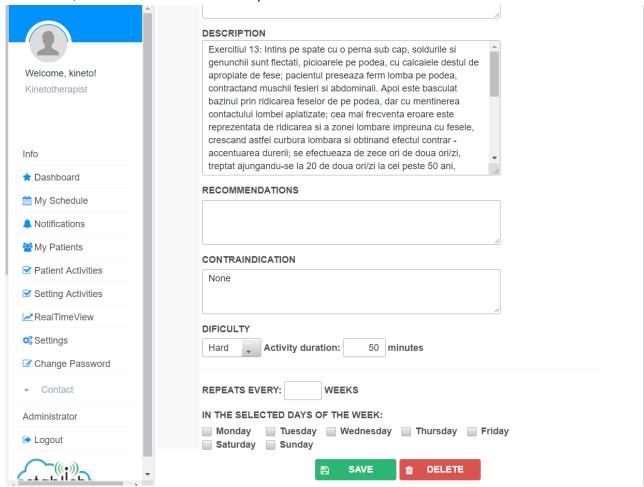


Figure 24 - Setting activities





Evaluate activity

The user with Kineto role has full access to the activities for the patients assigned to him. They can start, reschedule, stop, cancel, or evaluate the activities.

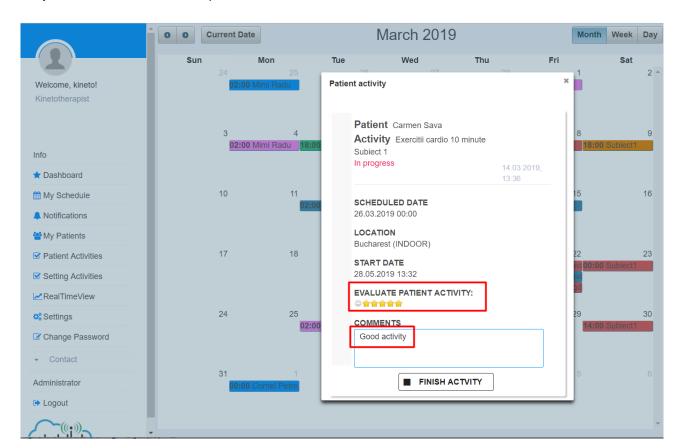


Figure 25- Evaluate activity





Real Time View

Like for patients, the kineto role has access to the real time view of parameters evolution as registered by sensors.



Figure 26- Real time view

Rule definitions

In this page, the user can define notification rules used. The rules are applied to sensor data and also to wearable data.

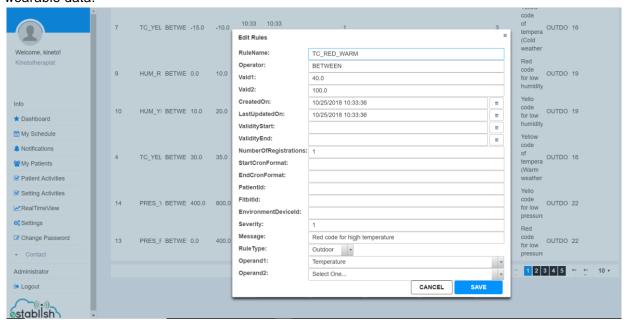


Figure 27-Rule definition





4. Conclusions

This deliverable is an user guide for those who want to know how Establish GUI works .The detailed functionality of each area is presented through images and explanation, in order to provide an overview of the functionalities available for monitoring in healthcare domain.

Furthermore the content of the pages above, present how environmental, physiological and behavioural sensor data empower patients in a rehabilitation stage with decision support tools for behavioural choices and treatment options. Data from ambient sensors (air quality, atmospheric pressure, temperature, humidity) and the biometric, physiological and behavioral sensors, (heart rate and respiratory number of steps) offer a real help to the patients in clinical rehabilitation/ keeping fit programs with decision support tools related to behavior and treatment options.

Deliverable 3.2 shows how this decision support system can specifically target the patient's functional aspect of integration in everyday life, enviorement and work.