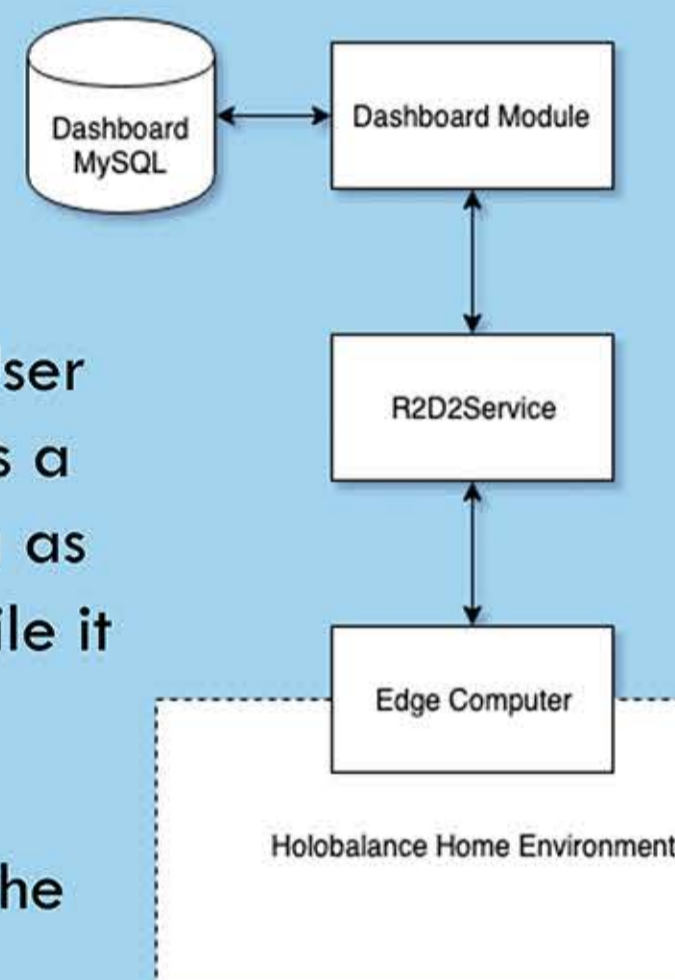# Holobalance Dashboard Module

Description

The Dashboard Module (DM) or "Professional Web Portal" is the main User Interface for the healthcare professionals (i.e. physiotherapists) in the Holobalance project. Healthcare professionals use the Dashboard Module to (1) register new patients in the Holobalance system, (2) store the results of questionnaires and other patient tests, (3) define exercise schedules for patients to perform with the Holobalance platform at home, and (4) view and analyse patient's performance with exercises.

The Dashboard Module was developed in the context of Work Package 3, and will undergo its latest revisions and iterations before November 2019. In Work Package 5, integration of the Dashboard Module into the fully working Holobalance platform will continue.

Methodology/ Technologies

The Dashboard Module, is a User Interface module that provides a view on the Holobalance Data as stored in the R2D2Service, while it uses an auxiliary MySQL Database for storing data structures that are internal to the operation of the Dashboard Module. All data (both in R2D2Service and the Dashboard MySQL database) is accessible to the Holobalance Home Environment, through the connection of the Edge Computer with the R2D2Service through the R2D2Service APIs.

References

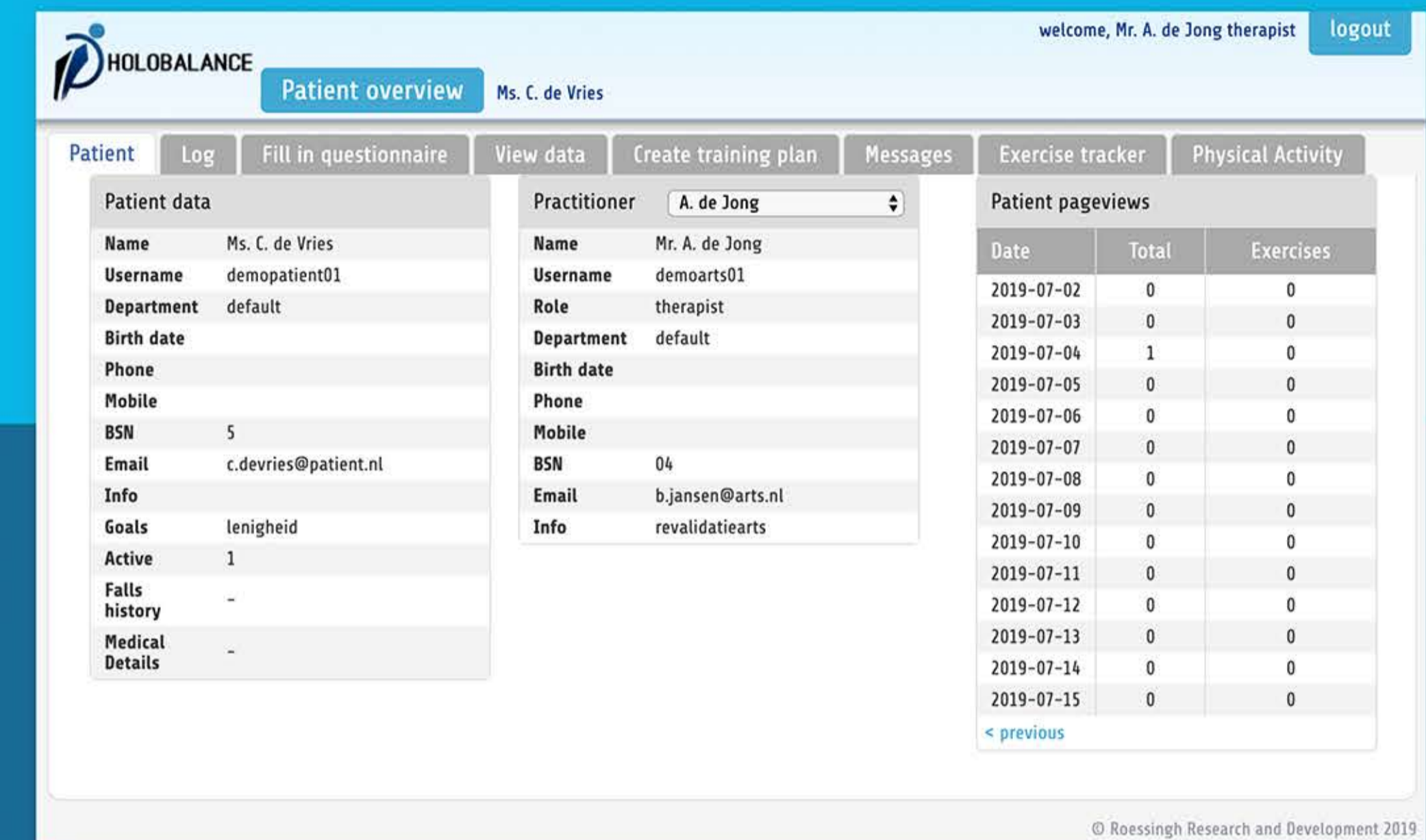Available Online at:
http://portal.rrdweb.nl/holobalance/

Main Functionalities

The Dashboard Module allows Professionals to perform the following tasks:
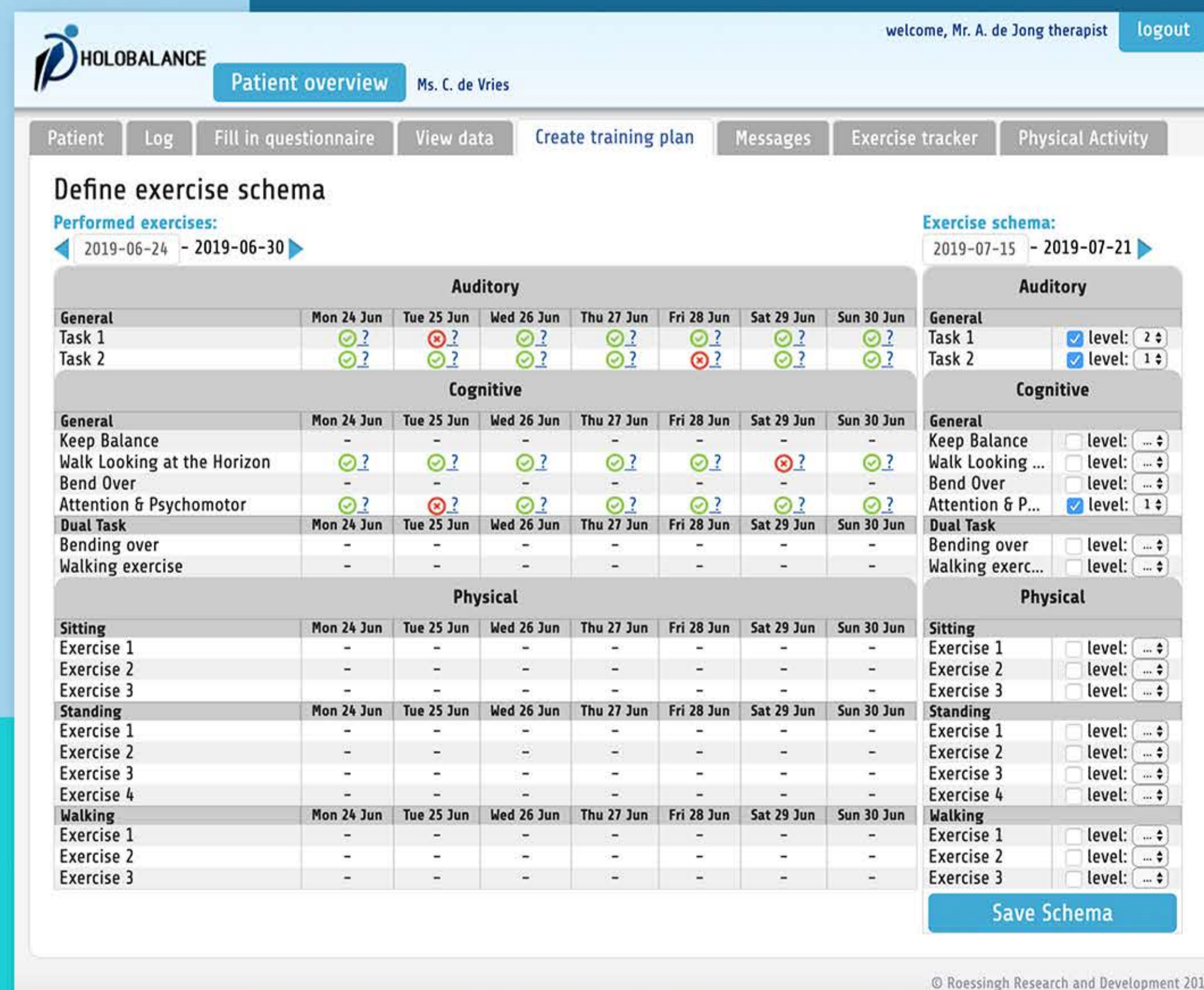
- Authenticate (login) securely, to access their patient's information.
- Manage patient accounts (create, edit or remove patients and assign additional healthcare professionals).
- Store assessment information (questionnaires, test results) in their patient's profiles
- View stored assessment information in overviews or details
- Log relevant event information (adverse events, clinical information or performance information)
- Complete questionnaires online (with the patient), directly into the portal
- Create personalized training plans
- Select exercises to perform and exercise levels
- Get insights into patient's exercise adherence
- View details of performed exercises
- View detailed information of physical activity
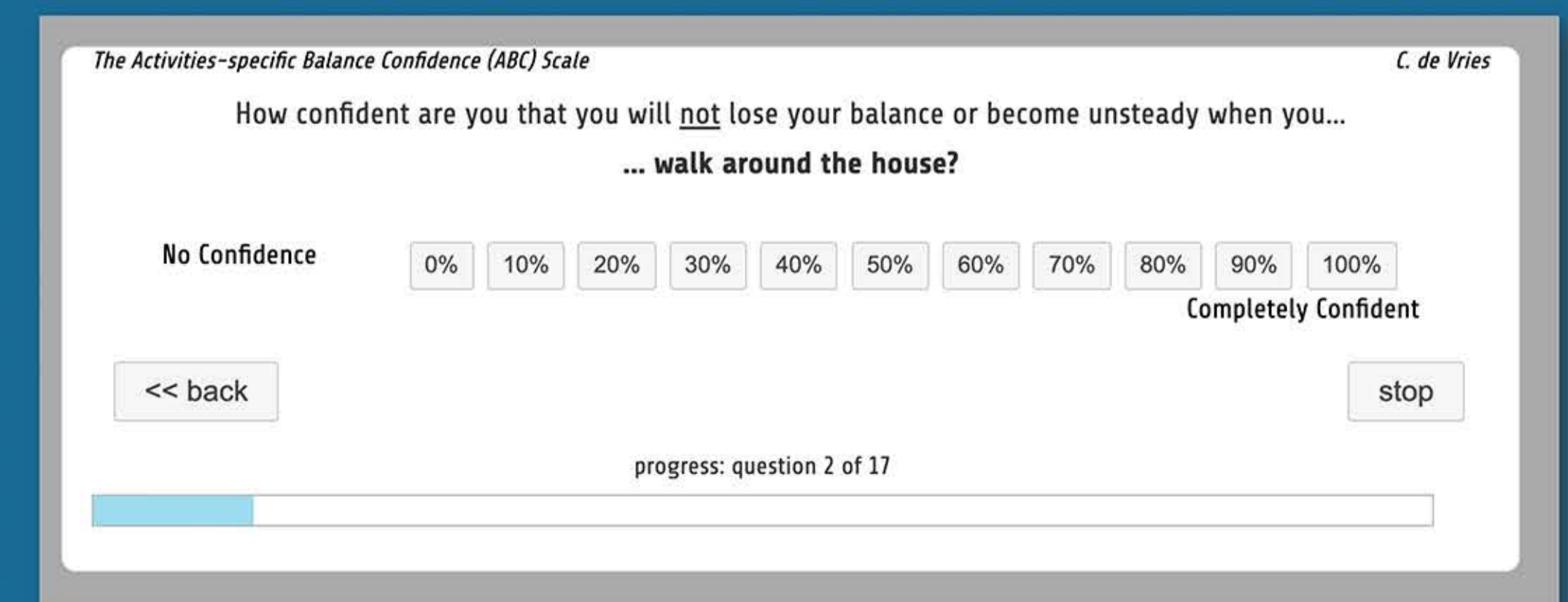- And more…

Results/ Interfaces

<u>Below:</u> Professionals can see at a glance which exercises were performed in the previous week, while defining the exercise schedule for next week (image below, right side).

<u>Above:</u> Patient overview screen for a demo user. Specific patient information is adjustable and will be finetuned. Patient's practitioner's information is displayed in the middle part of the screen.

<u>Below:</u> Example of filling in the ABS Scale questionnaire in the Dashboard Module. The questionnaire system developed supports multiple question types and dependencies.