



Guidance for My care shoe Web Application users

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1. Application usage instructions

In order for the user to access the web application, he needs to access the address http://10.8.129.207/mycareshoewebsite/site/log_in.php.

1.1. Page structure and common pages

After this page loads, the structure of the login page shown in Figure 1, which is common to any other of this application, will be displayed, consisting of:

1. Header: where information such as telephone number, e-mail, address is presented, as well as the different menus that you will have access to, and which vary from user to user;
2. Body: where the body of the functionality relative to the chosen menu is presented;
3. Footer: where similar information to the one on the header is presented: quick links and contact information.

The image shows a web browser window displaying the 'My Care Shoe' login page. The page is divided into three main sections highlighted by red boxes and numbered 1, 2, and 3.

- Section 1 (Header and Hero):** The top navigation bar contains links for 'LOGIN', 'ABOUT MY CARE SHOE', and 'CONTACTS'. Below this is a large blue hero section with the title 'My Care Shoe' and the text 'We want to help you, we will analyze your patient's sensor readings, and guide you to a better diagnose'.
- Section 2 (Account Login):** This section contains the 'Account Login' form. It includes input fields for 'Username/E-mail' and 'Password', both with placeholder text 'Enter your username / email' and 'Enter your password' respectively. Below the fields are two buttons: 'SUBMIT' and 'SIGN UP'.
- Section 3 (Footer):** The footer is divided into three columns. The left column contains a paragraph about the project. The middle column, titled 'CONTACT INFO', lists the address 'R. Dr. António Bernardino de Almeida 431, 4200-072 Porto', the email 'mycareshoe@gmail.com', and the phone number '+351 22 83 40 500'. The right column, titled 'QUICK LINKS', contains links for 'About My Care Shoe' and 'Contacts'.

Figure 1 - Login page structure

In this page, it will be possible to log in to the application or proceed to the user registration.

In the case of registration, the user needs to enter a username and e-mail address which have not yet been entered. A valid email address consists of an email prefix and an email domain, both in acceptable formats, separated by the "@" symbol.

After this process, the user needs to obtain permission from the administrator to access this application. In addition, the user must have the profile of a healthcare professional or administrator.

On the other hand, there are two menus that are transversal to the whole application, with the user logged in or not: Contacts and About. In the contacts menu, the members belonging to the My care shoe project will be listed.

The About menu presented in Figure 2, on the other hand, will consist of two sections. In the "Why choose us" section, there will be reasons that explain the mindset used to develop the whole project, and in the "My care shoe APP" section, there will be a preview of the mobile application, as well as links to download it, and the user manuals for this application and the web application.

Why Choose Us

INNOVATIVE SOLUTIONS

We will use several areas of engineering such as Biomedical, Computer Science and Electrical Engineering in order to bring the most innovative solution for the prevention of diabetic ulcers.

STRATEGIC THINKING

We simply have an intentional and rational thought process that focuses on the analysis of critical factors and variables that will influence the long term success of our team.

EXPERIENCED TEAM

We come from different areas of engineering and along this path we have acquired all the knowledge necessary to carry out this project, in order to guarantee success.

CREATIVE APPROACH

We will use a method of analysis of the human gait in order to be able to correct mistakes made by the patients which, if systematic, could lead to the appearance of ulcers.

My Care Shoe APP

Download the latest version of the APP

[Download the user guidance manual to android application usage](#)

[Download the user guidance manual to web application usage](#)

2021
 YEAR OF ESTABLISHMENT

4
 TEAM MEMBERS

Figure 2 - About page

1.2.Healthcare professional view

In case the user can log in and is a health professional, Figure 3 will be displayed. In the header, different menu options will be presented, such as:

6

- All Patients: where all the patients entered in the database and their data will be listed. If the professional wants to access the patient's profile, the patient will need to click on the corresponding line of the table.
- Add a Patient: where the data of the patient who has just been registered will be added;
- Account settings: in this menu it will be possible to change the professional's username, e-mail and password;

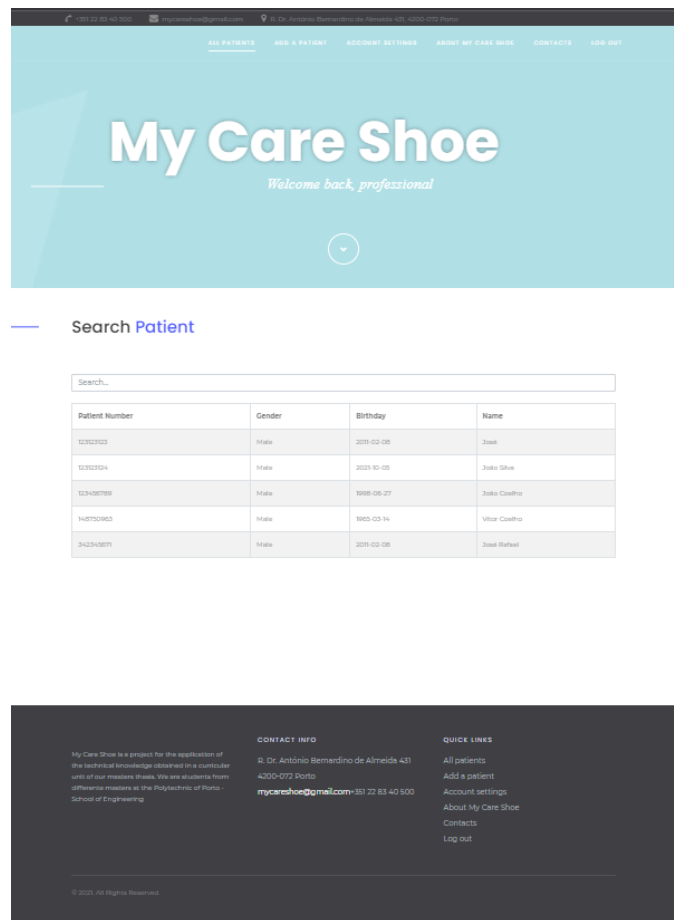


Figure 3 - All patients' page

After the professional clicks on a patient, the screen of Figure 4 will be displayed, with the following sections shown:

- Patient's Personal Information: the patient's profile details are shown, and through the "Edit patient information" button, it will be possible to edit this information;
- Warning specifications: where you can configure the parameters that will trigger a warning;
- Patient's statistics and warnings: in this section, the professional may access statistics or warnings within a chosen time interval.

The screenshot displays the 'My Care Shoe' web application interface. At the top, a navigation bar includes links for 'ALL PATIENTS', 'ADD A PATIENT', 'PATIENT SETTINGS', 'ABOUT MY CARE SHOE', 'CONTACT US', and 'LOG OUT'. The main header area features the 'My Care Shoe' logo and a tagline: 'We want to help you, we will analyse your patients' sensor readings, and guide you to a better diagnosis'.

The 'Patient's Personal Information' section shows a grid of patient details:

- NAME:** John Doe
- CLINICAL NUMBER:** 123456789
- BOUNDS:** None
- BIRTH:** 1990-01-01
- COUNTRY:** United States
- PROVIDER:** Dr. Smith
- WEIGHT:** 70 kg
- FEET SIZE:** 42
- FEET TYPE:** Normal

 A 'EDIT PATIENT INFORMATION' button is located below the grid.

The 'Warnings Specifications' section contains three input fields with dropdown menus:

- Hypertension Value (in mmHg):** 120
- Number of occurrences needed to create a warning:** 5
- Time interval considered (in seconds):** 5

 A 'SUBMIT' button is positioned at the bottom of this section.

The bottom section, titled 'Check Here Your Patient Statistics And Warnings', features two blue buttons labeled 'My Care Shoe' with 'Statistics' and 'Warnings' sub-labels, each accompanied by a 'SEARCH' button. The footer includes contact information for 'Dr. Antonio Bernardino de Almeida MD', a 'CONTACT INFO' section with an email and phone number, and a 'QUICK LINKS' section with links to 'All patients', 'Add patient', 'Account settings', 'About My Care Shoe', 'Privacy', and 'Log out'.

Figure 4 - Patient specifications page

There are some restrictions regarding the inputs of some fields that are displayed in "Edit patient information" page, such as:

- Weight cannot be less than 20kg nor more than 700kg, as it is considered the range where the target population will be inserted;
- The height must be between 0.5m and 3m;
- The foot size must be between 15 and 75 (using European foot size scale).

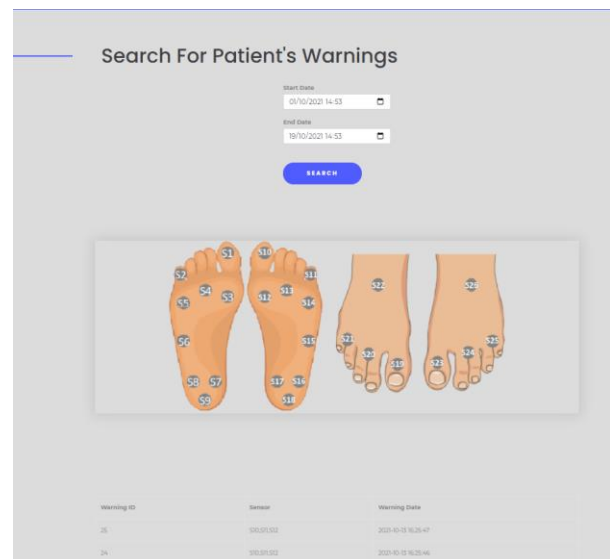
If the professional accesses the statistics or warnings, the pages will have the structure of Figure 5. Thus, it is possible to select the time interval and obtain the results produced in this same interval. In the case of statistics, 11 graphs identical to the one in Figure 5 (a) will be presented, referring to the variables: cadence, balance, steps, as well as left and right foot pressure sensors values, temperature, humidity, and stance time values.

In the warnings page, it will be first shown an image that locates the sensors according to the nomenclature presented in the table below, with the warnings register and the date of their creation.

Search For Patient's Statistics



(a)



(b)

Figure 5 - Searching functionality in: (a) - statistics; (b) - warnings

1.3.Administrator view

Once the administrator logs in, the options shown in Figure 6 will be displayed.

Check Here Your Administrator Operations

Through option "Logs table", you will be able to see the activity on the several tables of the database, and through "Permissions", you will be capable of giving registered user their permissions.

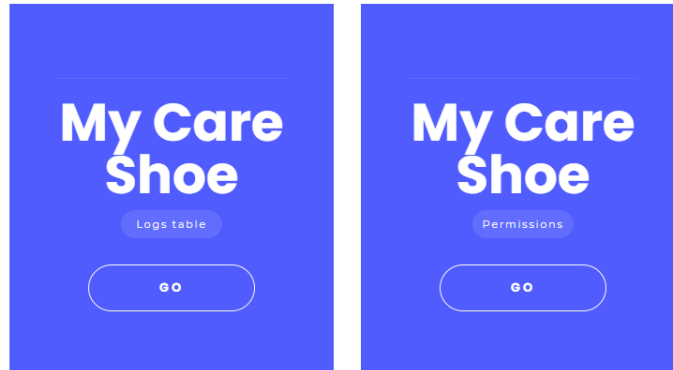


Figure 6 - Administrator operations page

On the "Logs table" page presented in Figure 7, the administrator can view the changes made to the users and personal information tables of the database, in a certain time interval. On the other hand, on the "Permissions" page represented in Figure 8, it will be possible to assign a profile to a registered user and give him access permissions.

Search For Database Changes

Start Date
01/10/2021 15:27

End Date
19/10/2021 15:27

SEARCH

Tracking ID	Table name	Data ID	Field	Old Value	New Value	Date
123	user	3	access_permission	0	1	2021-10-19 14:34:20

Figure 7 - Logs table page

Change User Permissions

User ID
1 - joao

Profile ID
Patient

Access Status
Enable access

SUBMIT

Figure 8 - User permissions page