

USER GUIDE PREMATURE ATHEROSCLEROSIS FAMILY TREE APPLICATION

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LOGIN

Search for <https://ft.void-zero.nl/> in your browser.

Enter the username and password.

Please, reach out [Ana Esponera](#) or [Sara-Joan Pinto - Sietsma](#) to get the credentials.

The home screen will appear.



Figure 1. Home screen.

TOKEN REFRESH

In case the application has been used for a long time, it may be necessary to refresh the CastorAPI access token.

This will be necessary if a *401 Unauthorized* error screen appears.



Figure 2. Unauthorized popup example.

In this case, you only need to click on the key icon located at the top left of the home screen. Then, try again the action you were performing.

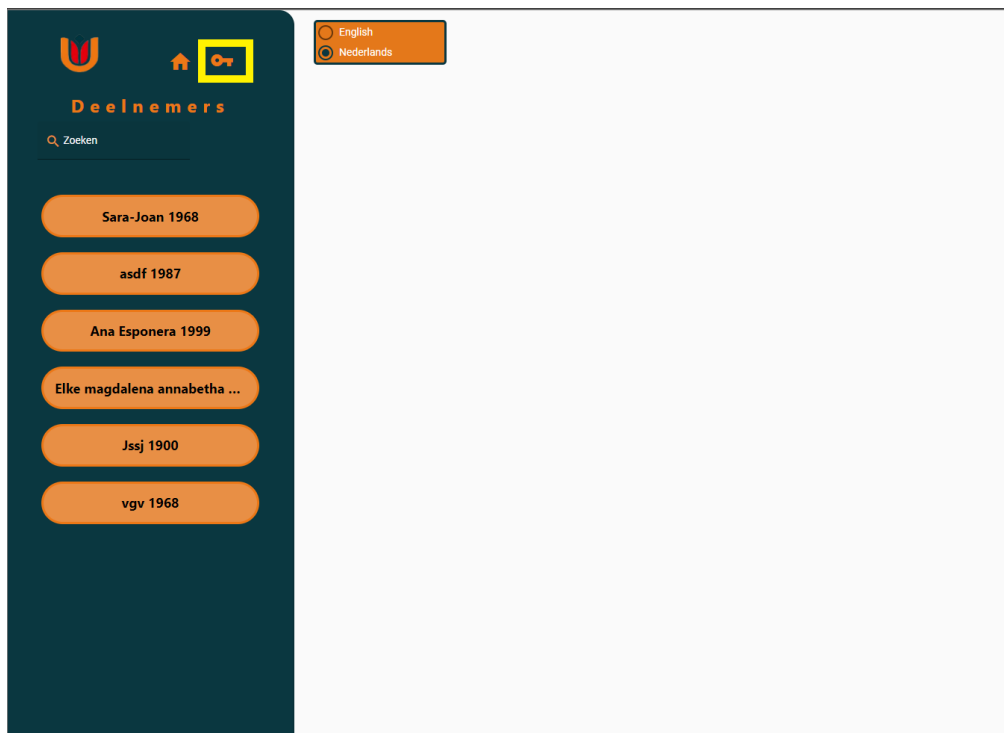


Figure 3. Home screen. Refresh token action highlighted in yellow.

MULTILANGUAGE

The application can be rendered in Dutch or English.

You can change the language of the application at any time by selecting the language in the panel at the top left.

The application text will be translated immediately.

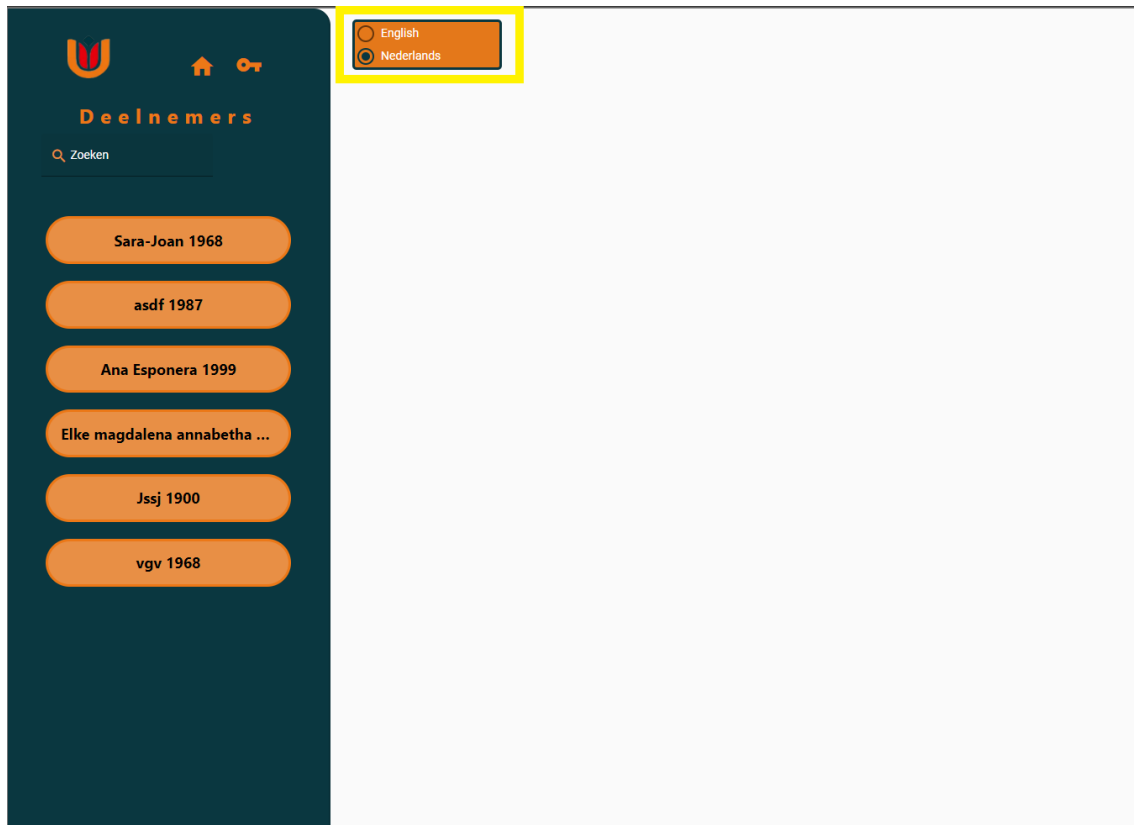


Figure 4. Home screen. Multilanguage box choice highlighted in yellow.

ERROR POP UP MESSAGE

If any problem arises, the error is captured by a popup panel.

The most common errors are:

1. A patient has submitted a form, but it is not complete. Status code **404**.
2. A patient has entered an erroneous value in the form. Status code **422**.
3. The values in the form contradict each other (for example, number of siblings 3 but there is only information for 2). Variable status code.

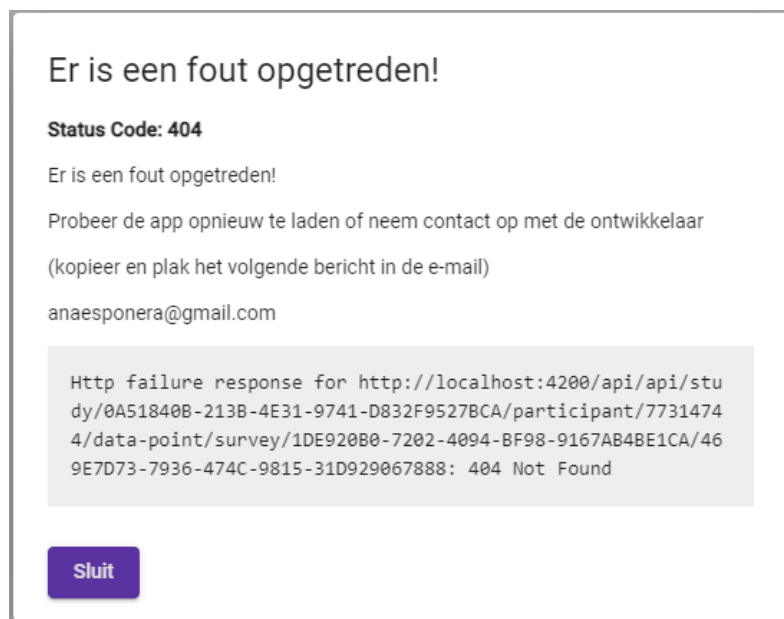


Figure 5. Example error popup.

If **maintenance** is required, it is necessary to copy the error message from the popup and send an email to the developer anaesponera@gmail.com

LISTING PARTICIPANTS

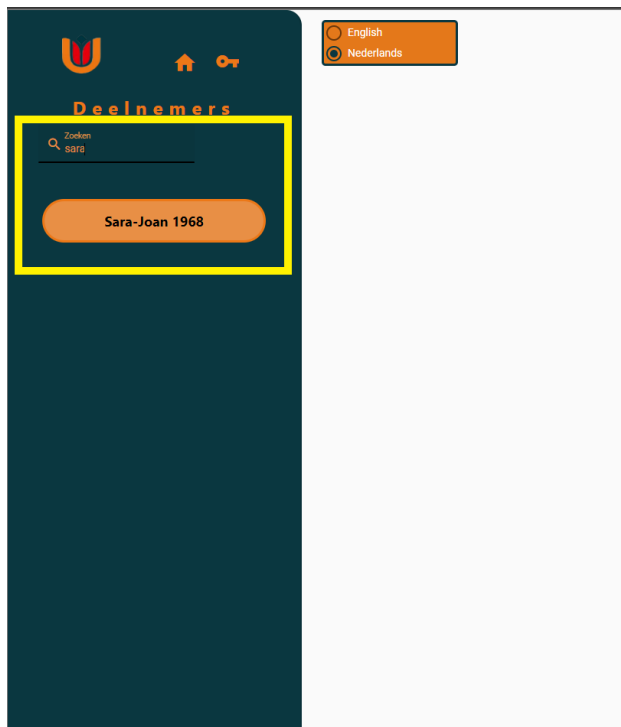


Figure 6. List of participants. Search bar highlighted in yellow.

On the left side of the screen is the list of participants.

These participants are those who have completed and submitted the form.

They are identified by their first name, last name, and year of birth.

There is a **search bar** where patients can be filtered.

You can filter by first name, last name and/or year of birth.

LEGEND

In the upper right corner, there is an icon formed by three horizontal stripes that displays a legend of icons.

This legend contains the meaning of all the icons that can appear in the tree.



Figure 7. Icons' legend menu.

DISPLAY FAMILY TREE

To render a family tree, just select a participant from the list.

Automatically, his or her family tree will be displayed.

The tree is responsive to **zoom and grab** in any direction.

To zoom, it is necessary to press Ctr while using the mouse wheel.

To move the tree to another position, just click anywhere in the background (avoid nodes) and move the mouse.

The tree **expands one side of the family** and contracts the other by default. To view the other side of the family, it is necessary to expand the trefoil icon located on one of the parents.

At any time, another participant can be selected from the list. The new tree will be rendered.

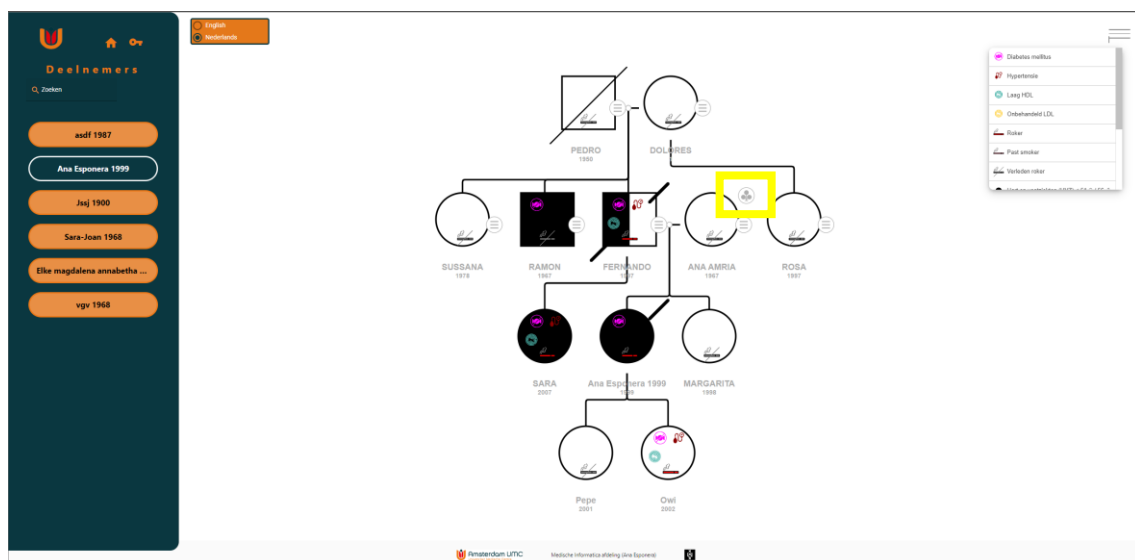


Figure 8. Example of the family tree visualization. Expand other family side button highlighted in yellow.

EDIT MEMBERS

All tree members are editable.

To edit a member, you need to click on the corresponding node.

A menu will appear on the left side with a **detailed view** of its properties.

If you want to edit it, just click on the pencil icon at the top right of the panel.

This button will redirect you to the participant's form to edit the values.

Once the change has been made and saved, return to the application and refresh the screen.

The changes will be reflected.

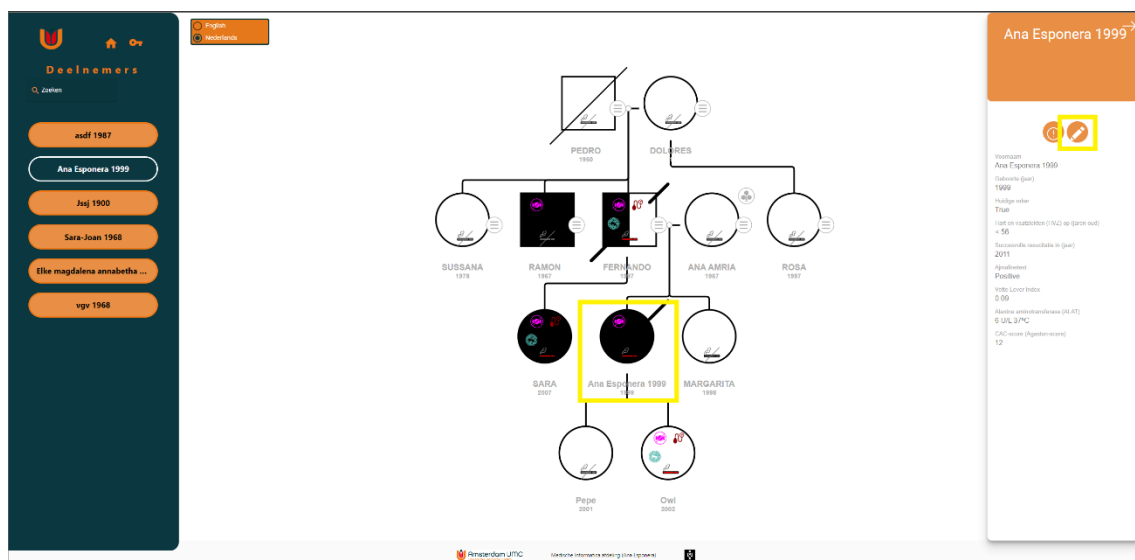


Figure 9. Detailed view of a family member. Corresponding node and edit button highlighted in yellow.

CUSTOM ICON

The other icon found in the detail view of a tree member, offers the possibility to create a custom label.

Click on the exclamation icon at the top left of the panel.

A field to fill in will appear.

Save the change.

You will notice that a new icon will be added in the tree next to the node.

This change is saved in Castor so the next time you select this participant, the custom icon will remain.

Ana Esponera 1999

Voornaam
Ana Esponera 1999

Geboorte (jaar)
1999

Huidige roker
True

Hart en vaatziekten (HVZ) op (jaren oud)
< 56

Succesvolle resectatie in (jaar)
2011

Almalinetest
Positive

Velte Lever Index
0.09

Alanine aminotransferase (ALAT)
6 U/L 37°C

CAC-score (Agaston-score)
12

Aangepast kenmerk
Something customized

CANCEL SAVE AND CLOSE

Amsterdam UMC
Universitair Medisch Centrum

Medische Informatica afdeling (Ana Esponera)

Figure 10. Detailed view of a family member. Custom icon, custom field and save button highlighted in yellow.

RELATE PARTICIPANTS

It is possible to link a member of a tree as a participant from the list.

To do this, it is necessary to click on the icon with three stripes on the corresponding node.

This will open an icon with a person that displays a menu.

Select the participant you want to relate.

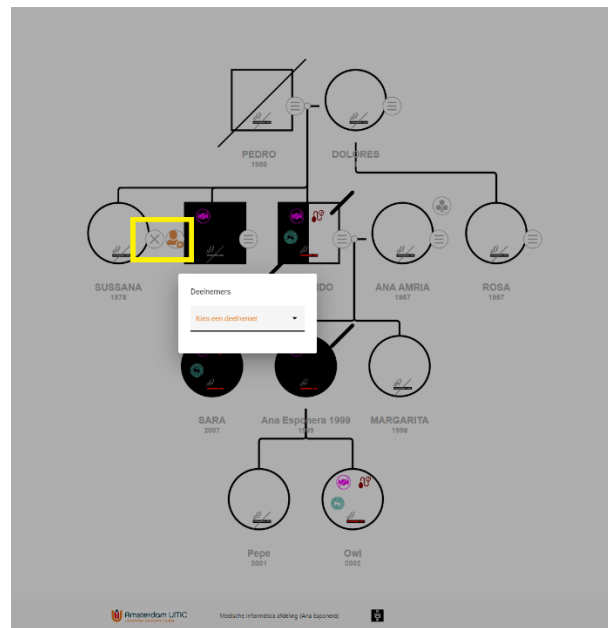


Figure 11. Linkage of a node with a participant. Link button highlighted in yellow.

Immediately, both trees will be combined.

The incoming information from the participant will not override the existing information but only add the new information.

For example, the node *SUSSANA* is related to *Sara-Joan 1968* participant.

The new incoming information would be:

- *Sara-Joan 1968* node
- *Grandfather* nodes (with respect to *Sara-Joan 1968* node)
- *Grandmother* nodes (with respect to *Sara-Joan 1968* node)

Therefore, 1 node will add more information and 4 new nodes will be added.

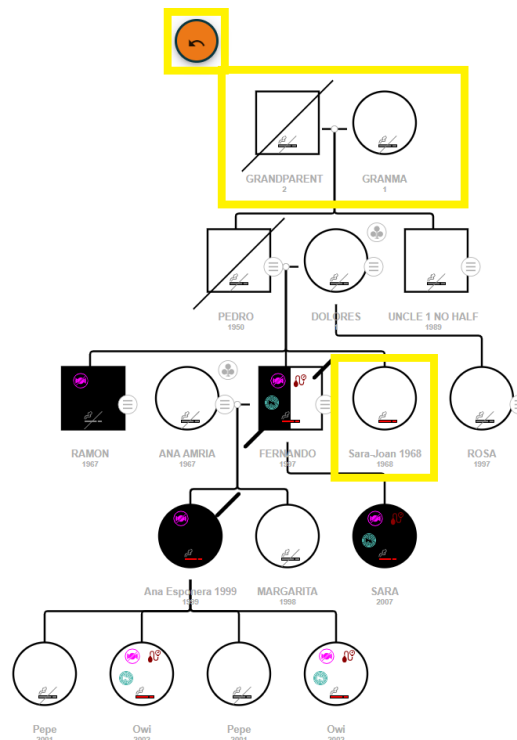


Figure 12. Combined family trees results from linking a family member to a participant. Undo button, new nodes and edited node highlighted in yellow.

No other nodes from the tree will be edited or added. The reason behind this is that the index participant *Ana Esponera 1999* has already added the required information about all the common family members. Since the linkage operation is always done on the index participant, we will always assume the values from the index participant is the correct one.

This change is saved in Castor so the next time you select this participant, the linkage will remain.

If you want to undo the change, just click on the **undo button** at the top center of the screen. The link will be deleted both on the screen and in Castor.