Left Column

Manage simulations and Settings

Mange Simulations

In the first view you can show or hide the information with the arrow on the right.

This button will only be shown if there is no simulation loaded, after loading a simulation or creating a new one, this button should be hidden, the plus button will be the only access to create or add a simulation.

When the doctor creates a new simulation, by default it will have the following options.

- Load simulations
- Delete simulations
- Edit information
- Save simulation
- Send Invitation
- Clone Simulation

Save, Delete or Edit the simulation

If the simulation has not been saved, you will have two different accesses to save the simulation, one from the left column and another from the viewport of the new simulation.

Clicking on the icon to save the simulation will also display options to delete or edit the simulation

When the doctor needs to save the simulation, a window will open where he must save the simulation data, he can save the same information with or without implants.

The simulation can only be cloned if it has been previously saved, by default the button will be disabled.

Load the simulation on the viewport

Clicking on the simulation name will load the simulation in the viewport.

Print Icon

The options to export in pdf etc... will be displayed to print normally or in 3D.

Send Invitation:

After saving the simulation, the doctor will have the option to send the simulation to a patient.

After sending the simulation, the doctor will be able to see the status of sending the invitation in the left column. There will be a tooltip with a delay time to notify the doctor the status of the invitation.

The process of sending the invitation will have two states, one when sending, the status will be pending and when the invitation is accepted, the status will be accepted.

If the invitation has been sent a long time ago and has not been accepted, a notification should alert the doctor, then the doctor could click on the send icon to resend the invitation.

When the patient accepts the invitation, the doctor will be able to manage access to the simulation.

Step to reproduce the functionality:

1. Click on the save icon on the left.
2. Click on save and send invitation
    a. You will see a confirmation message in the upper right corner.
    b. You will see on the right a tooltip with information on the status of the invitation sending
    c. A few seconds later you will see an example of the status change to accepted with a tooltip in the same position as the previous one, will contain a link where you can access to manage patient access as the current one.

You will see a toast notification when the invitation has been sent.
Also you will see a tooltip in the left column, to inform the doctor about the status of the invitation.
After a few seconds you will see on the left that the status of the invitation will change to accepted.

Settings

At the bottom of the left column you will see a settings button, will open the current modal.

Bottom tools

At the bottom of the application, the doctor will be able to move the simulation as he currently does, the tools have been focused on making it more usable and especially on devices such as tablets.

To the right of the accesses, you will have an access with the move icon, this will display the options to move, zoom in and zoom out and rotate.

More to the right you will have the options to measure and the progressive transitions

Top bar

On the left you will have the option to return to the CMS by clicking on the arrow.
If the doctor clicks on the bars button in the menu, he will be able to open or close the bar on the left.

It will also have the accesses for 5D dynamics and clothes as it currently exists.
On the right you will have an access with the name of Connectivity, it will display the connectivity options, in this case only VR.
The doctor will also be able to access analyses as he currently does.

To the right of the doctor icon, an indicator will be shown if you have received a notification or important information, a green bubble will be shown if you have received a notification, for example.

Procedures main navigation

On the right the procedure options will be shown, if any of the procedures or custom tools is selected, the procedure or the selected customizable tools will be loaded in the right column.
Custom tools will open a modal window with the advanced tools, so that the doctor has the freedom to create his own simulations with the tools he wants.

By selecting breast augmentation, a modal window will open that will inform the doctor of the different procedures and the doctor will be able to navigate in the information of each procedure, also the doctor could have the option to see examples of use of the procedure in video.

At the bottom of the modal window, the doctor will have the option to show once the modal with the procedure information.
To re-open the procedure information, on the main procedures navigation will have a help icon near the procedure title, clicking on the help icon, will open the procedure information.

Once the doctor has selected and loaded a procedure, you can return to the main menu of procedures by clicking on the button located next to the name of the procedure with the name of Change.

General procedure tools

Within each procedure, there will be three commonly used components:

- Select the desired number of viewports
- Select the joystick for manual use (it will only be enabled when the procedure or the customizable tools that are loaded need it)
- Select a symmetrical or asymmetrical view of a body part.

Implants

Implants Coverage section will show a slider with the different coverages in the implants.
If a cover is selected, it must be very clear visually.

Same functionality for Implant Round / Anatomical

Symmetry

Work symmetrically or asymmetrically at a general level, change the symmetry will affect all the components.

Joystick

The doctor may choose to use the joystick when he needs to perform more precise work, the joystick will be enabled at a general level, by default it will be used for manipulating implants, but if the curves tool is added, it will be possible to use it. activating the component from curves.

The first time the joystick is clicked it will show disabled with two recommended steps before using it, if the steps are followed the joystick will be activated

Tools

Modifying the values of the tools with a slider will make it easier for the doctor to manipulate them in environments such as ipad.

If the doctor moves the slider, the numeric field above should show the value in relation to the increase or decrease of the slider

The doctor will be able to undo the changes or delete them to return to a default state.
He will be able to add the catalogues of implants that he wants and enable them individually when he needs it, he will also be able to eliminate them.

The tools of each part of the procedure can be hidden to clean the view.

If changes have been made to the procedure and they have not been saved, trying to change the procedure should display a confirmation window.

At the bottom of every component, the doctor will have the option to undo, redo or return to the default state of the component clicking on the erase icon.

Catalog

The catalog component and Custom tools, if no component has been added, a button will be displayed with the name "Add Catalog" in the case of the catalog component and "Add Tools" in the case of custom tools.
Once the component(s) have been added, this button will be disabled and tools or catalogs can only be added from the plus button on each component.

Close or open the component

Each component of each procedure, if the doctor clicks on the arrow to the right of each component, it can be closed to clear the view.

Activate or deactivate a component

Each component can be activated or deactivated, selecting or deselecting the checkbox associated with the Activate label

All the tools that are added, whether they are implants belonging to a catalog or tools belonging to customizable tools, can be activated or deactivated.

Breast Augmentation example of functionallity

Step to reproduce the functionality:

1. Click on breast augmentation
2. Click on load procedure
3. Clicking on change will return to the list of procedures
4. Clicking on joystick will show joystick disabled with a message
5. If you follow the steps described, it will activate the joystick, with the legend Implants
6. Click on add custom tools, will show you a modal window, select curves
7. Select checkbox and you will see how the name of the joystick changes to Curves, then you can use the joystick with the curves component
8. If you unselect the curves checkbox, you will see how the joystick changes from label to implants, it is the default state.
9. You can go to the general icon of the joystick and disable it.
10. Go to the add implants from catalog component and click add
11. Select the first 2 sample items
12. You will see how the 2 catalogs are loaded,
13. The checkbox associated with each one you can activate or deactivate the catalog, only one can be visible at a time

Viewports

This example loads up to three simulations, I do not recommend more since the precision level to apply the tools in the simulation would be lost.

Step to reproduce the functionality:

1. Go to procedures and select mastopexy / reduction
2. Go to select number of viewports and click on 2 to view to viewports
    a. You will see how 2 viewports are loaded
    b. It is not included in the prototype but the main idea is that when you click on each viewport, the information in the right column is loaded.
3. To bring one viewport to the front and minimize the rest, click on the fullscreen icon located at the top right of the first simulation.
    a. You will see how the simulation and the after are minimized.
4. To restore the windows to their default state, click, at the top right, again on the fullscreen icon which has now changed visually.

Pending

It is still pending to define which tools are part of the customizable tools belonging to each procedure.

It has also been pending to define which tools will be part of the customizable tools but at a general level.

Note

In the steps with the examples with interactions, explained above, there are examples of all the components that should be followed as a pattern and with the possibility of scaling, in the body and face.