

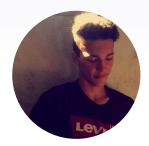
# MI4WEB Elaboration phase

Projeto em Informática - Group 7 LEI / Universidade de Aveiro 2021/2022

#### Team Roles



Architect
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Product Owner

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Architect
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#### Website

https://thescorpoi.github.io/



# Requirements gathering

- Read documentation about medical images.
- Brainstorming.
- Research about the state of art in this area.
- Discussion with coordinators.
- Decide the system boundaries.
- OHIF, ORTHANC, DICOM, DICOMWeb.



#### Context

Technologies are important to govern the heavy dataflows. In this project we are going to:

- Create a Web platform to visualize medical image studies;
- Develop extensions to add functionalities to visualize and process medical images.



#### State-of-Art

- OHIF
- DICOOGLE
- ORTHANC

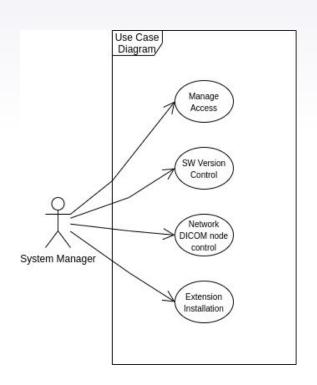


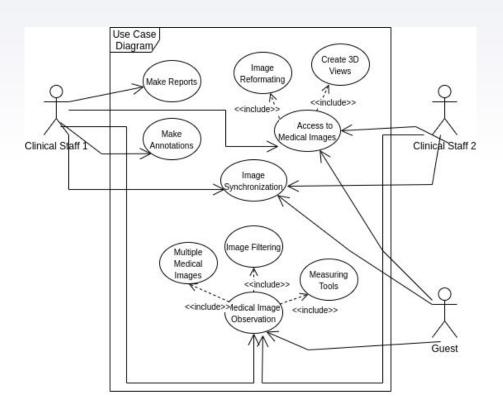
#### Actors

- Clinical Imaging Staff 1
- Clinical Imaging Staff 2
- Guest
- System Manager



### **Use Cases**





### Functional Requirements

- 1. Business Rules
- 2. Administrative functions
- 3. Authentication



# Functional Requirements

- 6. Regulatory Requirements
- ► Login
- Requests to the ORTHANC server through the DICOMWeb API.
- DICOM image import and export.
- All the images that are retrieved from the server can be accessed through the application.



# Functional Requirements

- 6. Regulatory Requirements
  - Image segmentation tools.
- Admin interface.
- CS1 should be able to edit, make annotations and store those images.
- 3D display tools such as plugins and 2D display functionalities.



# Non-Functional Requirements

#### High priority requirements:

- Usability
- Reliability
- Security
- Interoperability
- Availability
- Performance



# Non-Functional Requirements

#### Medium priority requirements:

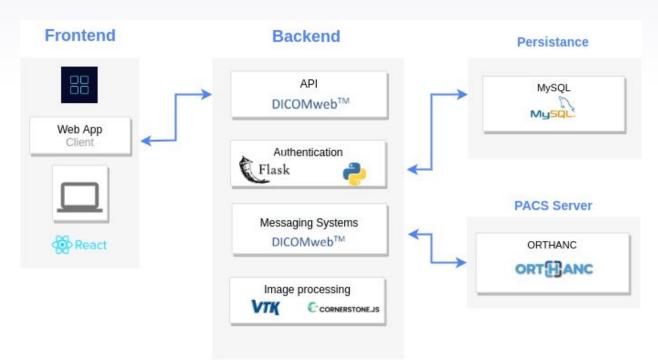
- Scalability
- Portability
- Maintainability



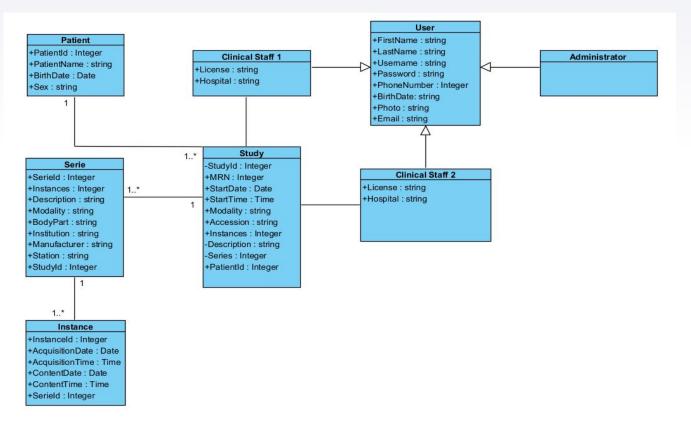
# Assumptions and dependencies

- Knowledge about the functioning of medical image
- Internet connection
- The system must run on any operating system and in any browser

### System Architecture



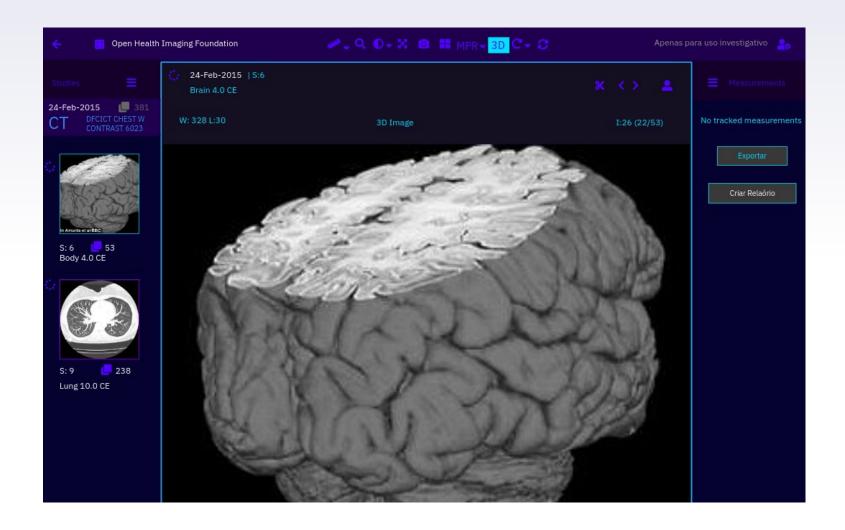
#### **Domain Model**

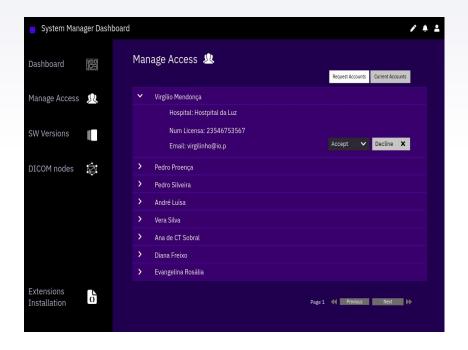


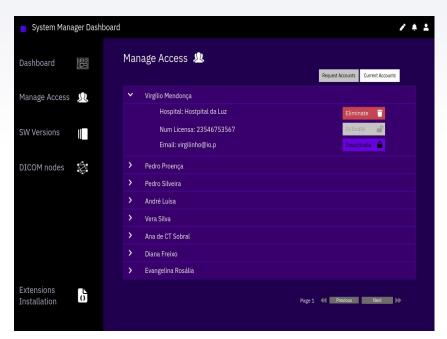
# Design mock-ups

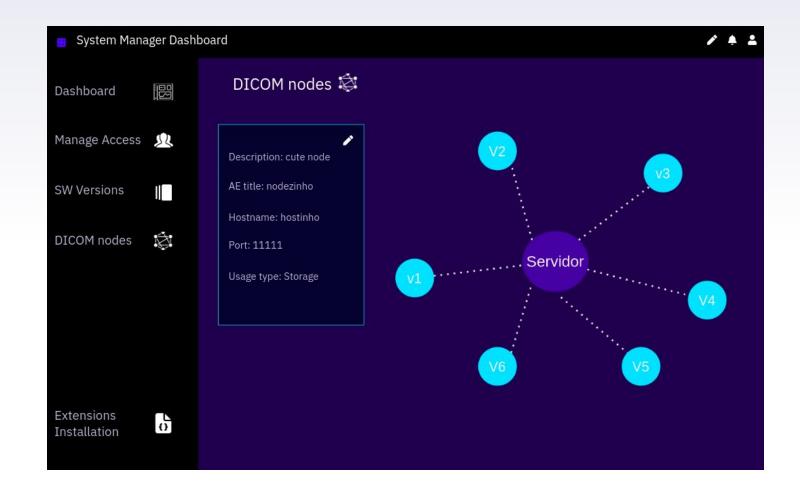












# THANKS!

**Any questions?** 



