Shanoir NG – Center Managment

Software Design Description

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# Microservice context

## Microservice presentation

This microservice is a part of the Shanoir-NG application and is responsible for center management and their requests.

## Main functionalities

Shanoir NG main functionalities are:

* Managing centers (create, delete, update)
* Managing investigators (create, delete, update)
* Managing acquisition equipment (create, delete, update)
* Managing coils (create, delete, update)

## Application users

Target population is:

* Shanoir administrators
* Shanoir users of any level (could only update their own preferences)

# Functional architecture

## Center

### Name

May contain letters, numbers, whitespaces, special characters, accents. Minimum 2. Maximum: 200. Input. Mandatory

### Street

Text area. Facultative.

### Postal code

Input. Facultative.

### City

Input. Facultative.

### Country

Input. Facultative.

### Phone number

Input. Facultative.

### Website

Input. Facultative.

## Investigator

Person involved in study. Linked to the center and study.

### First name

May contain letters, numbers, whitespaces, special characters, accents. Minimum 2. Maximum: 50. Input. Mandatory

### Last name

May contain letters, numbers, whitespaces, special characters, accents. Minimum 2. Maximum: 50. Input. Mandatory

### Affiliation center(s)

List of centers affiliated to the investigator. Select but few centers with one investigators are possible.

### Functions

Select but many possible. Possible selections:

* Psychologist
* Medical doctor
* Researcher

## Acquisition equipment

Model with a serial number that is linked to specific center.

### Name

Name that appears on UI is the concatenation of the rest of fields and center’s name:

{Manufacturer} - {Model name} {Model’s magnetic field} T ({Model’s modality}) {Serail number} - {Center name}

### Manufacturer model name

Object Model (see point 2.4)

### Center

Object Center (see point 2.2)

### Serial number

Input (text or numbers)

## Model

Equipment models used for acquisition

### Manufacturer

Object Manufacturer (see point 2.5). Mandatory

### Model name

Input (text) (from 2 to 200 characters). Mandatory

### Modality

MR or PET. Mandatory

### Magnetic field

Input (number)

## Manufacturer

### Name

Input (min. 2, max. 200 characters). Mandatory

## Coil

### Name

Input. Min 2, max 200 characters. Mandatory

### Center

Select from the list of centers. Mandatory

### Acquisition equipment

Select – from the list of available equipments for selected centers. Mandatory

### Serial number

Input. Min 2, max 200 characters. Facultative

### Coil type

One of the following:

* BODY
* EXTREMITY
* HEAD
* MULTICOIL
* SURFACE

### Number of channels

Input. Min 2, max 200 characters. Facultative

## Functionalities