Shanoir NG – Import

Software Design Description

Table des matières

[1 Microservice context 1](#_Toc486500170)

[1.1 Microservice presentation 1](#_Toc486500171)

[1.2 Main functionalities 2](#_Toc486500172)

[1.3 Application users 2](#_Toc486500173)

[2 Functional architecture 2](#_Toc486500174)

[2.1 Imports 2](#_Toc486500175)

[2.1.1 Import from DICOM CD/DVD 2](#_Toc486500176)

[2.1.2 Import from PACS 2](#_Toc486500177)

[2.1.3 Import from ShanoirUploader 2](#_Toc486500178)

[2.1.4 Import processed dataset (NifTi) 3](#_Toc486500179)

[2.1.5 Import from files 3](#_Toc486500180)

[2.2 Steps 3](#_Toc486500181)

[2.2.1 Choose modality 3](#_Toc486500182)

[2.2.2 Upload files 3](#_Toc486500183)

[2.2.3 Select series 3](#_Toc486500184)

[2.2.4 Select clinical context 3](#_Toc486500185)

[2.2.5 Describe dataset 3](#_Toc486500186)

[2.2.6 Select/create data processing 3](#_Toc486500187)

[2.2.7 Anonymization 3](#_Toc486500188)

[2.2.8 Nifti conversion 4](#_Toc486500189)

[2.2.9 Select settings for research study 4](#_Toc486500190)

[3 Software/technical Architecture 4](#_Toc486500191)

[3.1 Anonymization 4](#_Toc486500192)

# Microservice context

## Microservice presentation

This microservice is a part of the Shanoir-NG application and is used to import data.

## Main functionalities

Shanoir NG main functionalities are:

* Import from DICOM CD/DVD
* Import from PACS
* Import from ShanoirUploader
* Import processed dataset (NifTi)
* Import from files

## Application users

Target population is:

* Administrators
* Experts
* Users

# Functional architecture

## Imports

### Import from DICOM CD/DVD

Steps of this import are:

* Choose modality
* Upload dataset (DICOM zip)
* Select series
* Select clinical context
* Anonymization
* Nifti conversion
* Select settings for research study

### Import from PACS

Steps of this import are:

* Choose modality
* Define DICOM query and import data
* Select clinical context
* Anonymization
* Nifti conversion
* Select settings for research study

### Import from ShanoirUploader

Steps of this import are:

* Choose modality
* Upload files
* Anonymization
* Select series
* Nifti conversion

### Import processed dataset (NifTi)

Steps of this import are:

* Upload files
* Describe dataset
* Select/create data processing
* Nifti conversion

### Import from files

Import from files allows to upload:

* Processed dataset (NifTi)
* Extra data
* Spectroscopy data

Steps to import processed dataset are:

* Upload files
* Describe dataset
* Select/create data processing
* Nifti conversion

Steps to import extra data are:

* Upload files
* Select clinical context

Steps to import spectroscopy data are:

* Upload files
* Select clinical context

## Steps

### Choose modality

### Upload files

### Select series

### Select clinical context

### Describe dataset

### Select/create data processing

### Anonymization

### Nifti conversion

### Select settings for research study

# Software/technical Architecture

## Anonymization

Anonymized fields are: