UNIVERSITÉ LIBRE DE BRUXELLES

Master Thesis

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Machine learning for analysis of EEG signals in neurosciences.

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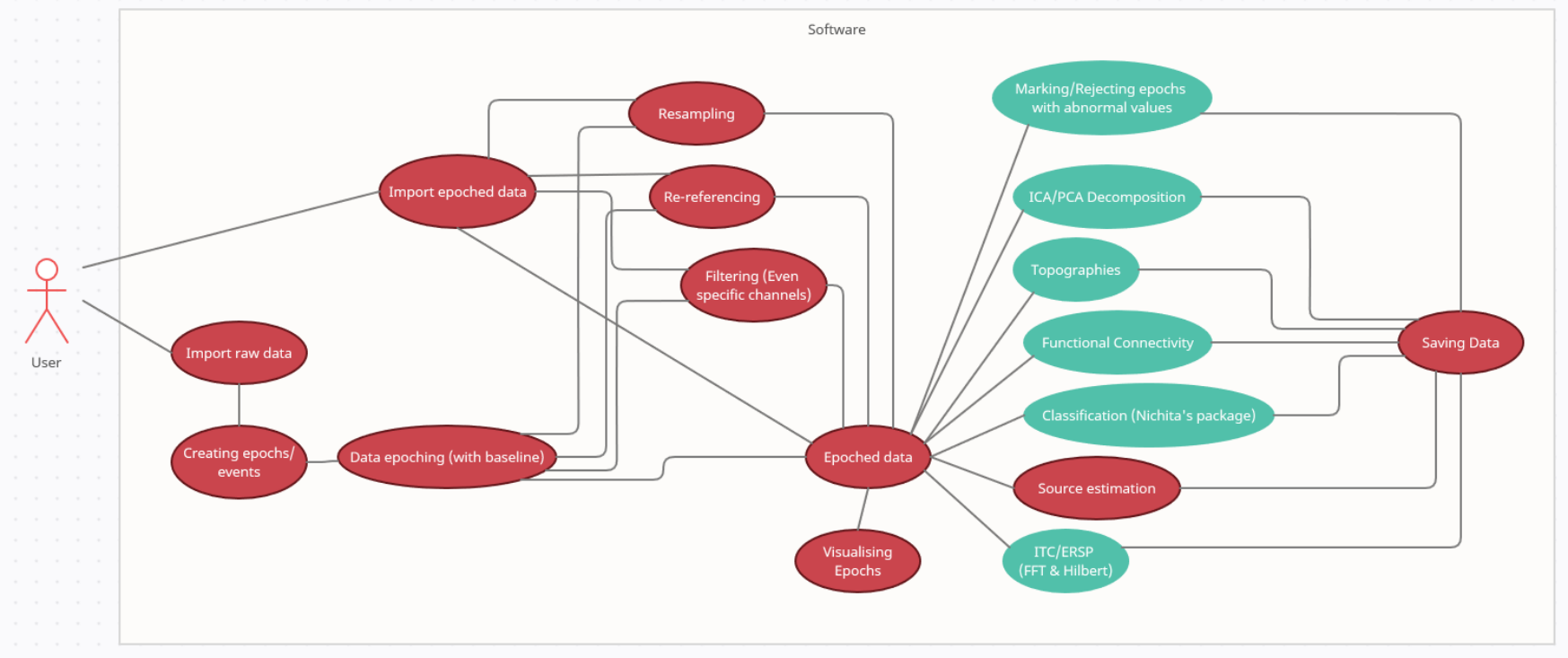
Software

27/10/2021 : Meeting with Anita (The client)

- Setting the different features to implement in the software :
  - First, a main flowline, for EEG data processing and analysis.
  - Second, important features to be added after the main flowline.
  - Third, additional features and classification with Nichita's package.

All the features implemented will be presented regularly to the client to have feedback and do the required modifications.

Software



Use case diagram for the software. In red, the main flowline. In green, the additional features

Software

Advantages compared to EEGLAB and future features for the software :

- Source estimation complex in EEGLAB, can simply it in python and make it usable.
- Add Nichita's package to add articial intelligence (negligible in EEGLAB).
- Add tools developped during the internship, such as SNR computation.