Functional specifications

Stakeholders:

Thomas, Clémentine, Léo, Louis, Max, Quentin : programmers
Franck Jeannin, Jackie Boscher : sponsors

Project and scope:

We want to create a device with an AI that can listen to conversations and detect the language spoken by the people in the room. The device should display colors or text according to the language spoken.

Definitions of terms:

IA : A set of theories and techniques for developing complex computer programs capable of simulating certain traits of human intelligence (reasoning, learning, etc.).

Deep learning : Deep learning is an AI method that stems from the concept of machine learning. This so-called deep learning method is based more specifically on the notion of artificial neural networks.

How to collect data?

To collect the data we are considering several solutions. The first is to record conversations directly in the project rooms in order to be as close as possible to reality.
The second is to search directly for samples on the internet (which would take less time) but would be more complicated to reconcile with reality and we will have to check all the samples to see if this is what we want.. Other solutions are not excluded but will need to be studied in order to put them in place.

Privacy and confidentiality of the data:

We will not record conversations to respect the privacy of the individuals in the rooms. We will keep data to a minimum and possibly encrypt some information to ensure security and confidentiality.

Use case:

John is an English teacher and wants his students to talk only in English during his classes. He must be notified when someone talks in french to warn his students.