

Functional Specification

Approvals

The goal of the project is to build a device that can listen to conversations and detect when English is spoken or when French is spoken.

There are two main objectives:

- Search about how to collect/produce voice sample with sufficient quality and quantity for the learning process.
- Think about privacy and confidentiality of the data, how can we be sure that the conversations are not recorded and/or used for something else than detecting languages.

Targets Audience

The application could be used by developers or also users that have some troubles with English or French language and they want to improve their knowledges.

Risks and assumptions

Audio part:

- We could have problems when listening to the conversation (not being able to recognize English or French)
- Lack of data / sample
- The audio could be of poor quality and thus mislead the AI

Requirements

- Be able to distinguish when English is spoken or French is spoken
- The application must be secure and guarantee confidentiality and data privacy

Solution overview

Audio data:

To provide audio data we can use many different sources such as recording student voices, using audio books, datasets

Privacy/Confidentiality:

- To ensure the confidentiality of the data, we can encrypt it in order to protect it from anyone else.
- If the data is no longer used anymore, we can erase it to prevent multiple issues