Anchor-dropping Interface for ReadAlong Studio

Abstract

ReadAlong Studio is an application by NRC to help indigenous language learners by aligning the text and audio streams together, so that when the learner can see the individual words highlighted as they are being spoken in the audio.

The particular challenge is to help the aligner produce better alignments when it fails, by putting the human back in the loop with anchors. The anchors are inserted in XML version of text, and Studio will split the text and audio into chunks before and after the anchor, align them separately, and join the results afterwards. We created an anchor dropping interface to facilitate inserting such anchors in the text.

Methodology

Backend:

- 1. Developing with .NET 5.0
- 2. Unit Test with XUnit and Moq

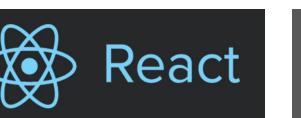






Frontend:

- 1. Developing with React.js
- 2. Unit Test with Cypress





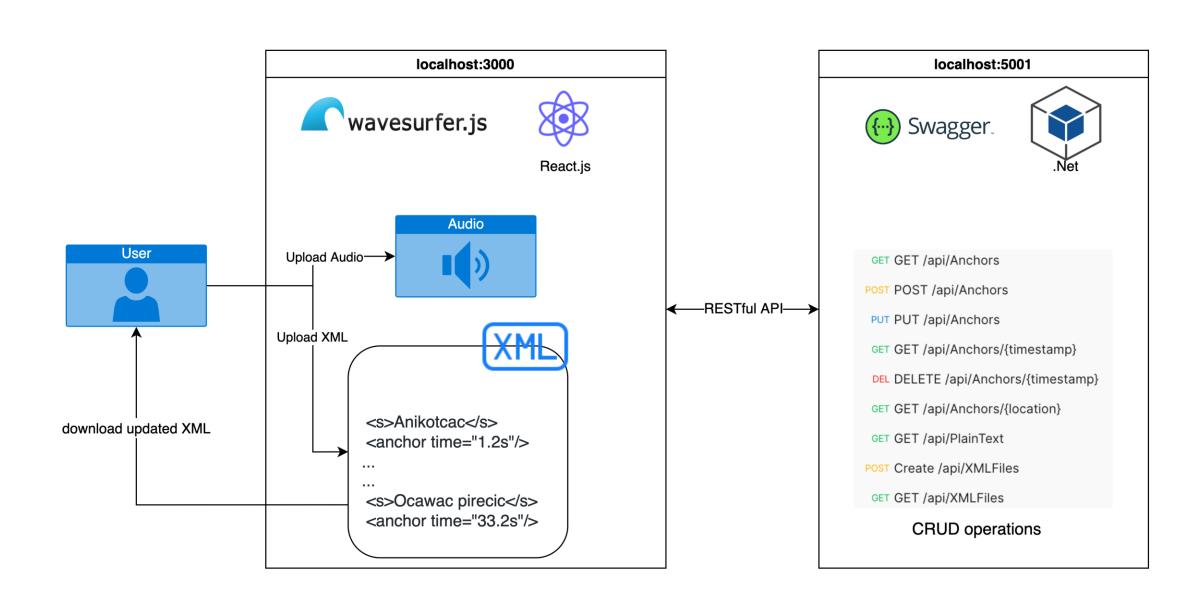
Deliverable

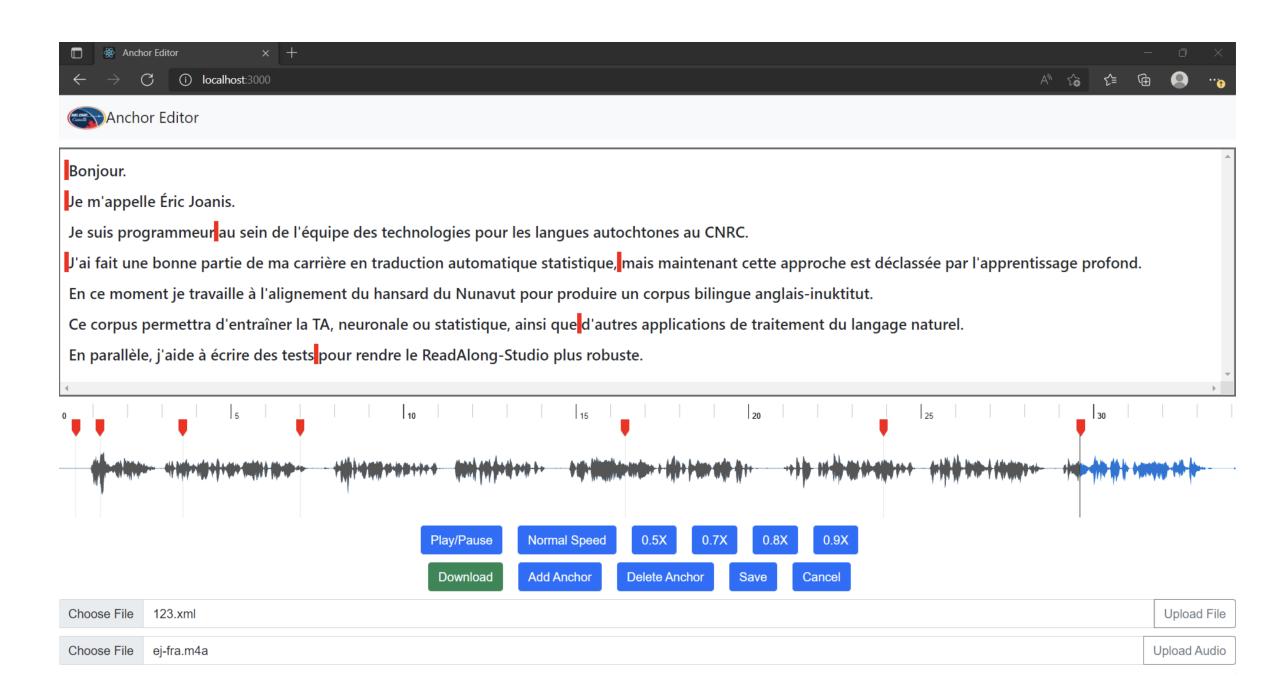
1. GitHub Repo: https://github.com/Rijkstarhn/NRC-Anchor-Editor



- 2. A full manual and unit testing
- 3. A detailed readme

Architecture





Web Application Demo

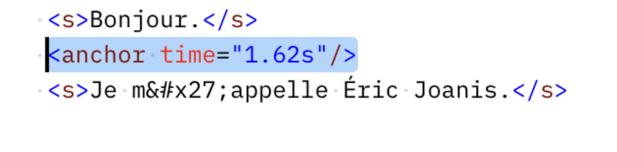
Conclusion

Before:

Users should manually edit the location and timestamps of anchors in XML manually

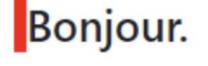
Now:

All anchors editing operations including 1. Add, 2. Delete, 3. Create, 4. Updating anchors can be done in one application





Before: Manual Editing in XML Files



Je m'appelle Éric Joanis.



Now: Automate editing in a Web Application



