

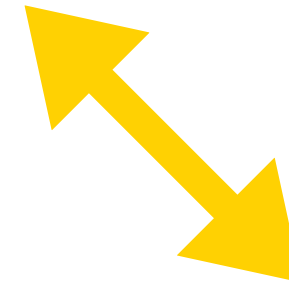
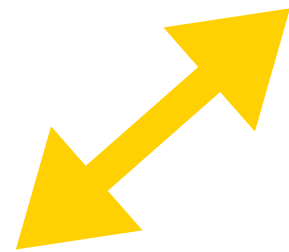
Infotainment Testing Robot

Orchestrator Node

Vision Node

Moveit Node

Audio Node



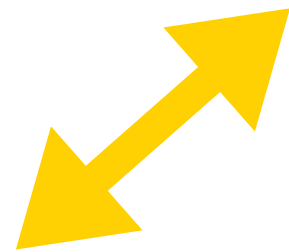
Infotainment Testing Robot

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Problematic

- **Dependencies Version Mismatch**
- **No Real time Detection**
- **Ros 1**

Input

Ros Node

- Text to speech
- Record
- Audio classification

Text to speech



pyttsx3

- **French**
- **English**

Audio Node

Audio node

Text to speech



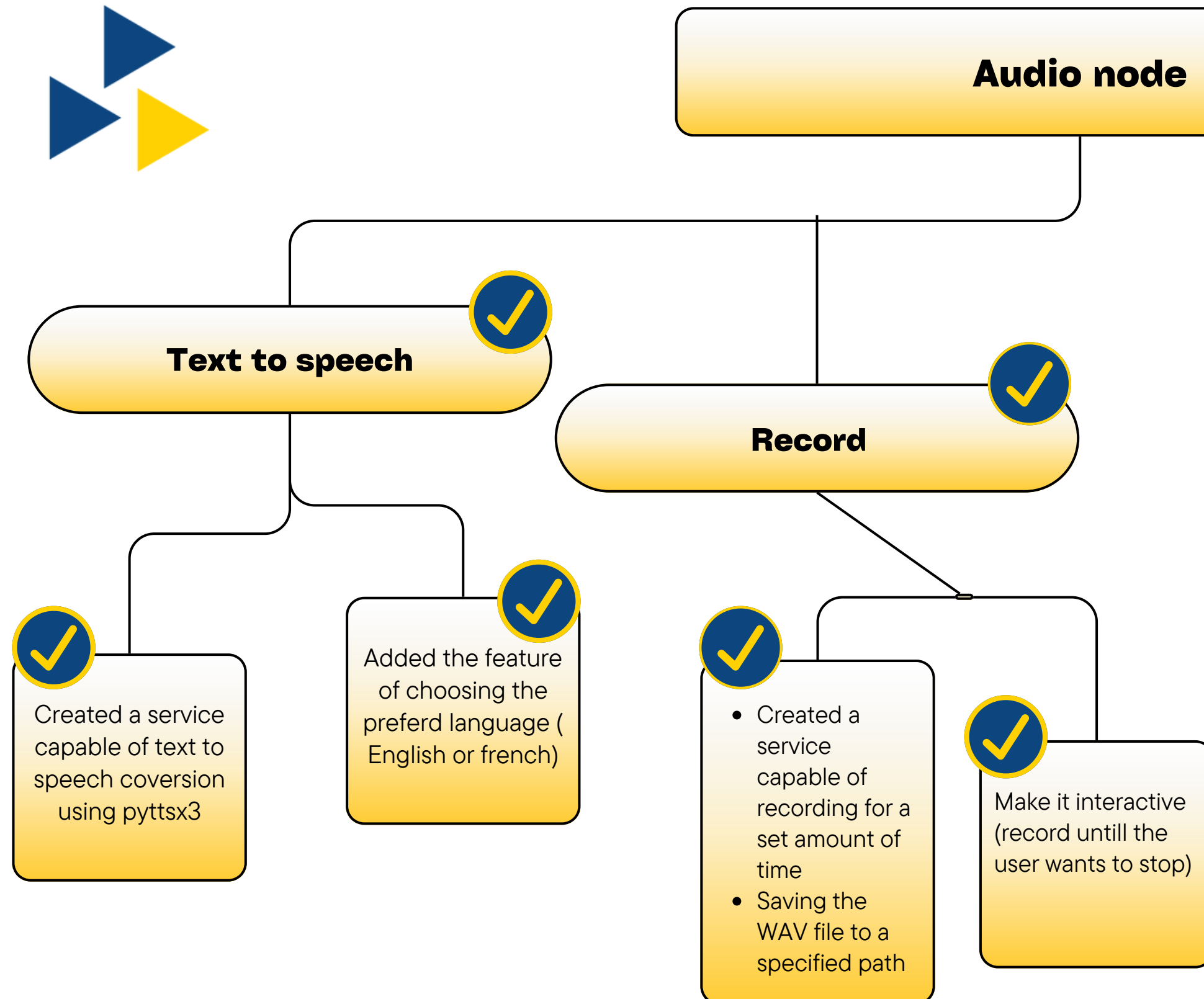
Created a service
capable of text to
speech conversion
using pyttsx3

Added the feature
of choosing the
preferred language (
English or french)

Record



Audio Node



Audio classification



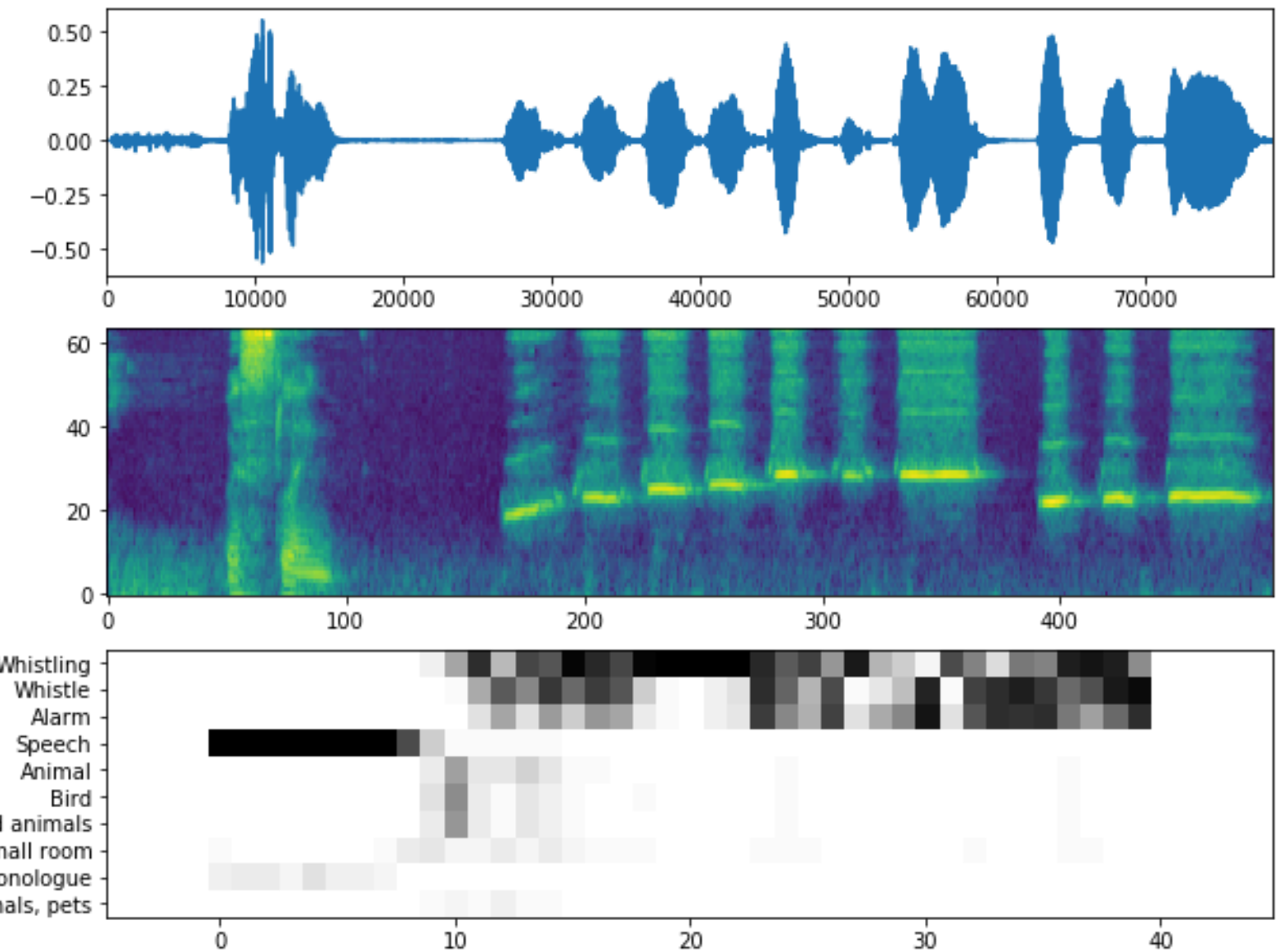
Data

{ ||| | } AudioSet

Audio classification



Model



Detection

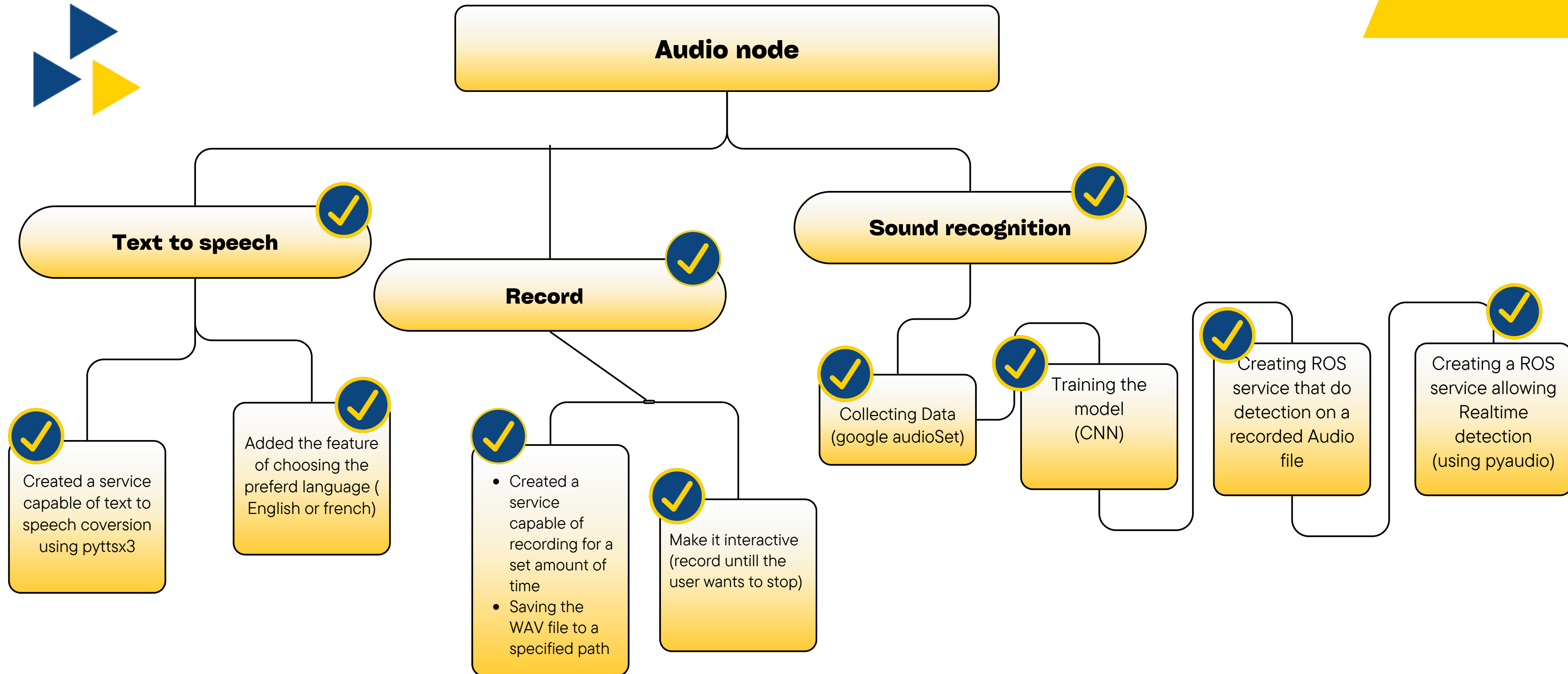


Real time

Saved audio file



Audio Node



Features to add



- **Publish to a topic in case of beep**
- **provide log file for real time detection**