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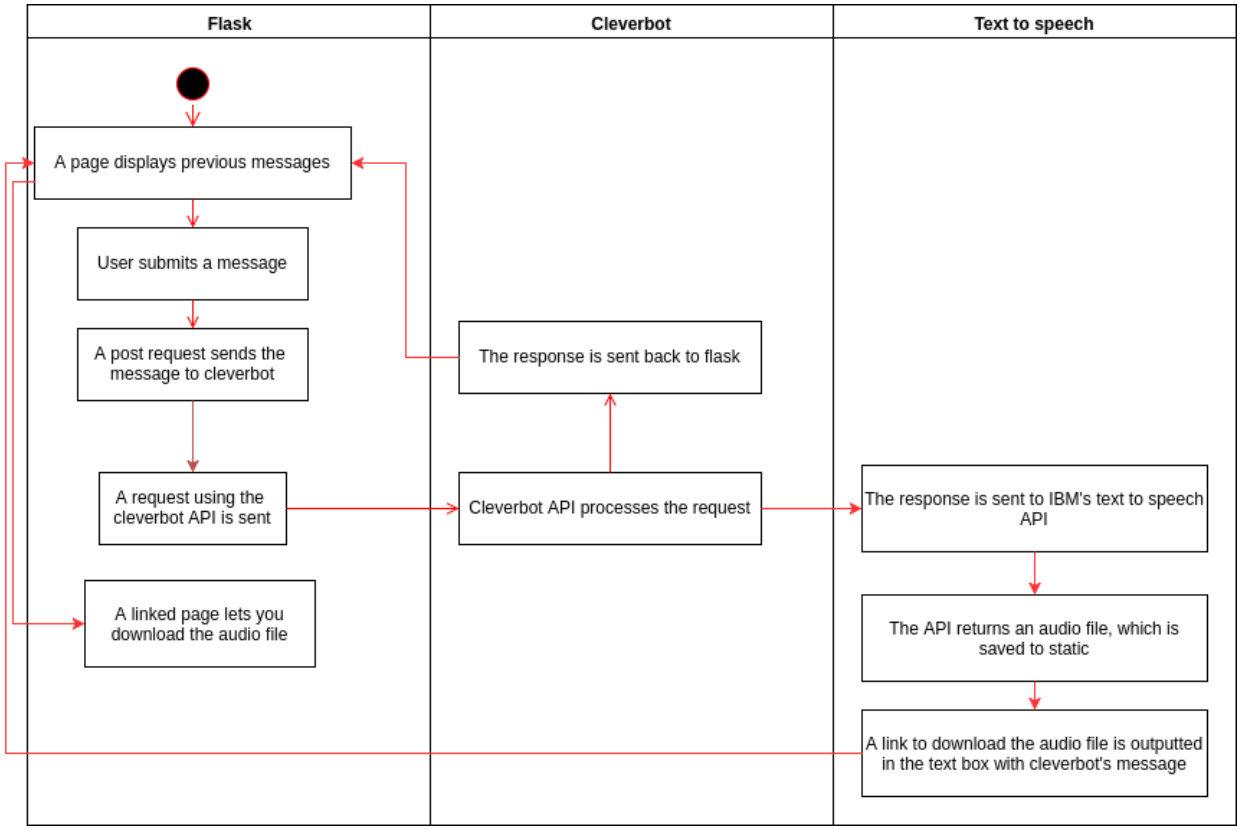
Project: Cleverbot Synthesizer

APIs used: Cleverbot, IBM Watson text to speech (and IBM Watson tone analyzer)

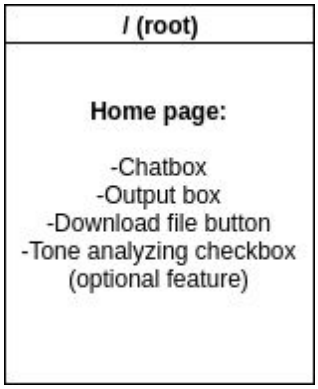
The user inputs what they want to say to Cleverbot, and Cleverbot will return a response to what the user wrote. Cleverbot's response will then be passed into the Watson text-to-speech API, ultimately allowing the user to download an audio file of Cleverbot's response in spoken format.

Optionally, if we have extra time, we will use Watson Tone analyzer to analyze the emotion in a sentence and apply that to our text to speech to make it more expressive.

Component Map



Site Map



Conversation:

The conversation is stored in a chat box, similar to chat boxes that appear on Facebook, google, or other messenger services. You can talk to cleverbot by typing something into the space below the chat bar, and cleverbot will respond in chat, as well as in a linked audio file.

Dependencies:

- Flask
- requests

Files:

- app.py - main file
- Templates
    - index.html - Main file, has the chatbox
- Static
    - This is where downloaded audio files are kept
- Util
    - clever.py
    - text_to_speech.py

Roles

- Holden: Project Manager
- Vivien: Front-end and helping with Cleverbot (and Tone analyzing)
- Arif: Text-to-Speech (and Tone analyzer integration)
- Shaina: Front-end and helping with Cleverbot (and Tone analyzing)