

11.10.2024

Agreed upon meeting practices

- Agreed to meet on Fridays around 1pm every week to discuss the project, retrospect and write development diary
- Other communication is adhoc and probably pertaining to merge requests

Agreed upon development practices

- Using github (<https://github.com/banansku/ComputerScienceProject2024>)
- Merge request for pushing to main
- Python BE
- React TS FE

Some technology considerations:

- Transcription done through AI using assembly.ai
- Downloading youtube done by yt-dlp (can download both video or audio)
- Transcription analysis done by OpenAIs chatGPT 4o
- Some sort of RAG or vector db to manage timestamps of transcription, so AI can tell when something was discussed -> more accurate results

<https://help.openai.com/en/articles/8868588-retrieval-augmented-generation-rag-and-semantic-search-for-gpts>

Next steps

- Setting up server
- Check API pipelines
- Bad UI
- More clarity to how implementation will actually be done

18.10.2024

How are we with previous weeks “Next steps”

- Barebones FE service without any content created
- Barebones BE service without any services created
- Bad UI, would be slightly better than current, since no UI is what we have at the moment
- More clarity ->

Jan ->

- I could start with making skeleton of a text box interface for app
- Interaction UI skeleton

Atte ->

- Barebones API
 - Basic GET and POST for ChatGPT
 - AssemblyAI GET and POST
 - YT-DLP GET
- Checkup on how flask handles WebSocket

Design

- Completely stateless
 - We do not want users or tokens or database management
 - User has single session that lasts until they close the browser
 - We are not yet addressing the need for multiple simultaneous users
- WebSocket connection will keep user in the loop
 - Which stage of query is the service at
 - Downloading

- Transcribing
 - Inferring
 - Ready
- If a need arises to store any data (big IF, since it is stateless)
 - Most rudimentary SQLite DB
- Not very dissimilar UI to what ChatGPT has
 - Industry standard
 - Clear text input
 - Clear text output
 - No frills no thrills