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CrumbAI

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<https://github.com/HamzDevelopment/CrumbAI>

Introduction

CrumbAI is a tool that simplifies video editing for short-form content. Shorts are videos on platforms like TikTok, YouTube Shorts, and Instagram Reels. They are short, engaging clips that cover an entertaining topic.

CrumbAI enhances content creation by automating crucial editing tasks such as interesting segment detection, subtitle generation, cropping, and face/speaker detection. These steps are time-consuming and require knowledge of video editing. CrumbAI solves this by doing everything for you.

CrumbAI requires the user to provide a YouTube link and specify what the user would like to do with the video.

Who is this for?

This is for content creators who want to share their content on platforms such as TikTok. It is also for users who want to share other people's content and establish a successful presence online.

Features:

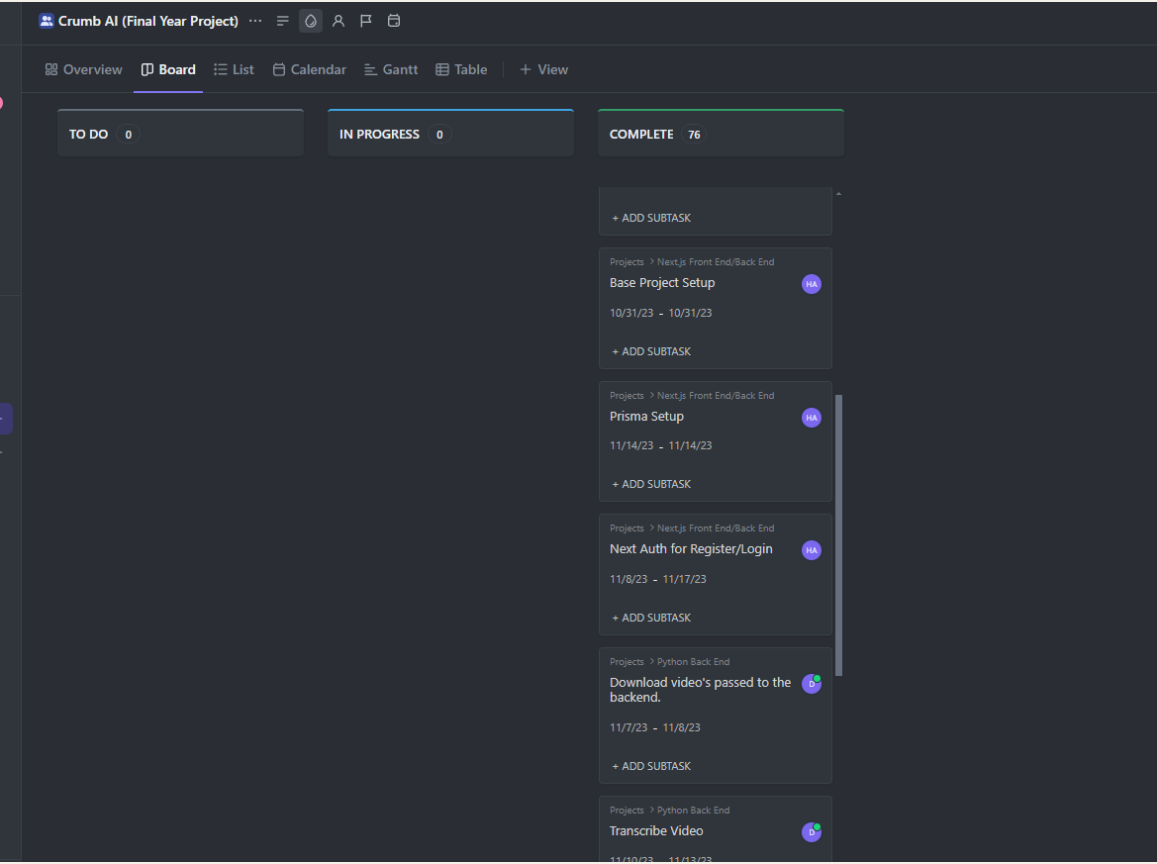
- **User-Friendly Interface**
- Uses AI to **grab interesting segments** and automatically edits them into clips.
- **Face/Speaker detection** to ensure the person talking is always on screen.
- **Subtitle generation**
- Option to add **“Game-play” videos** to boost engagement on your TikTok videos and keep users engaged.

Methodologies

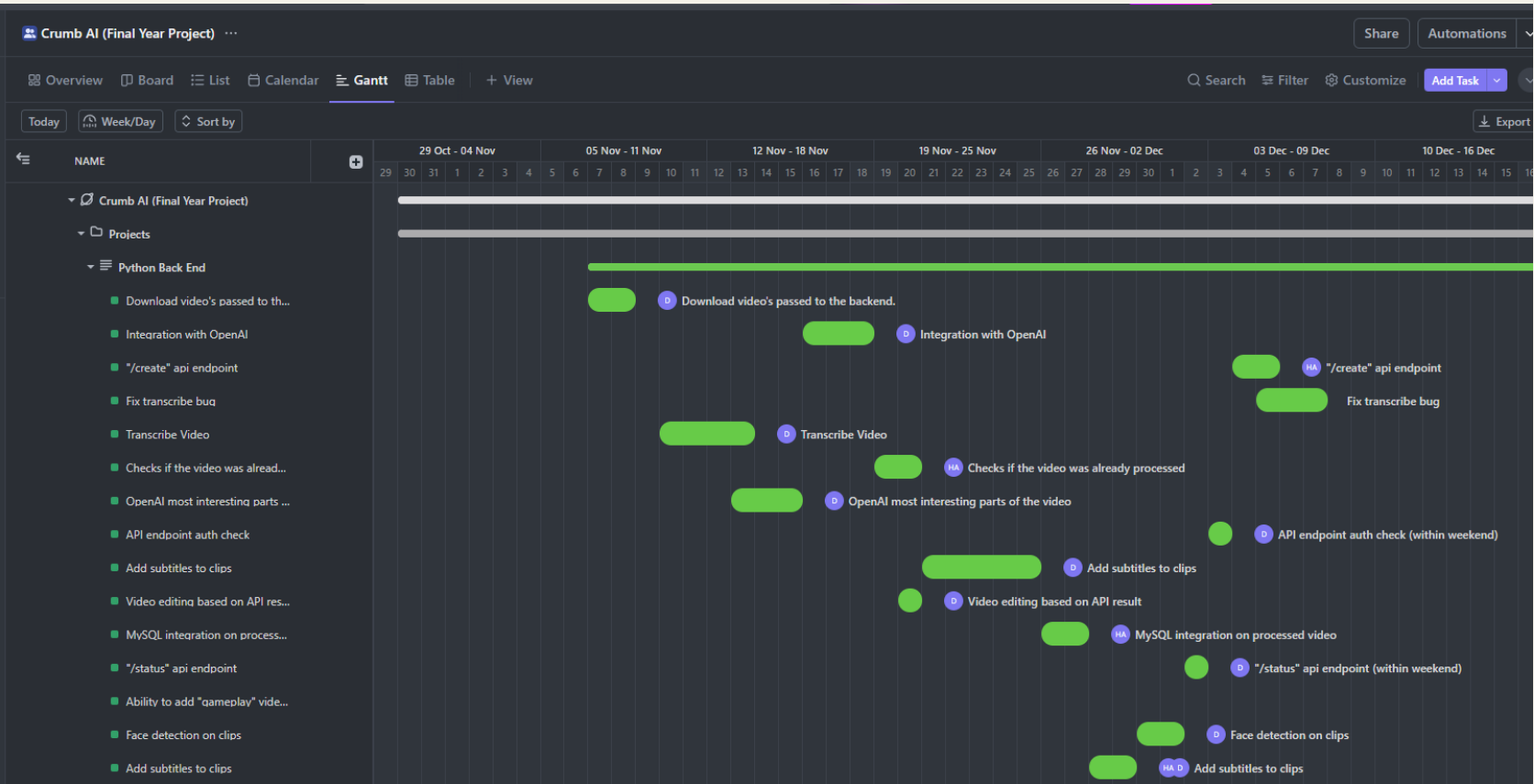
During the development, we used Agile methodologies with the help of Clickup, a project management tool that houses our Kanban and Gantt Charts. This was essential to us as it allowed us to track our progress throughout the project.

We also used Github to track changes, collaborate and maintain version control on the codebase.

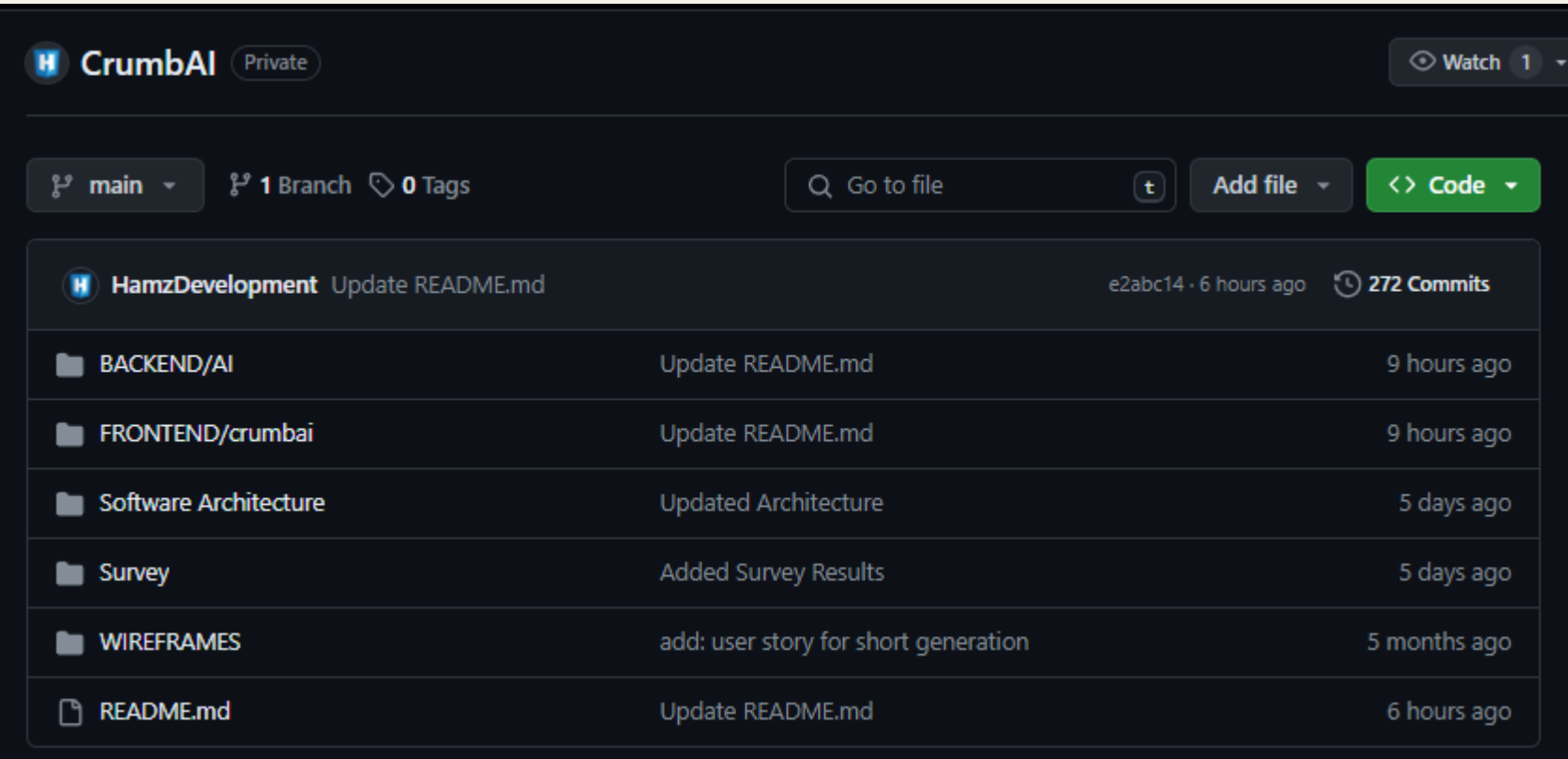
Kanban Chart:



Gantt Chart:

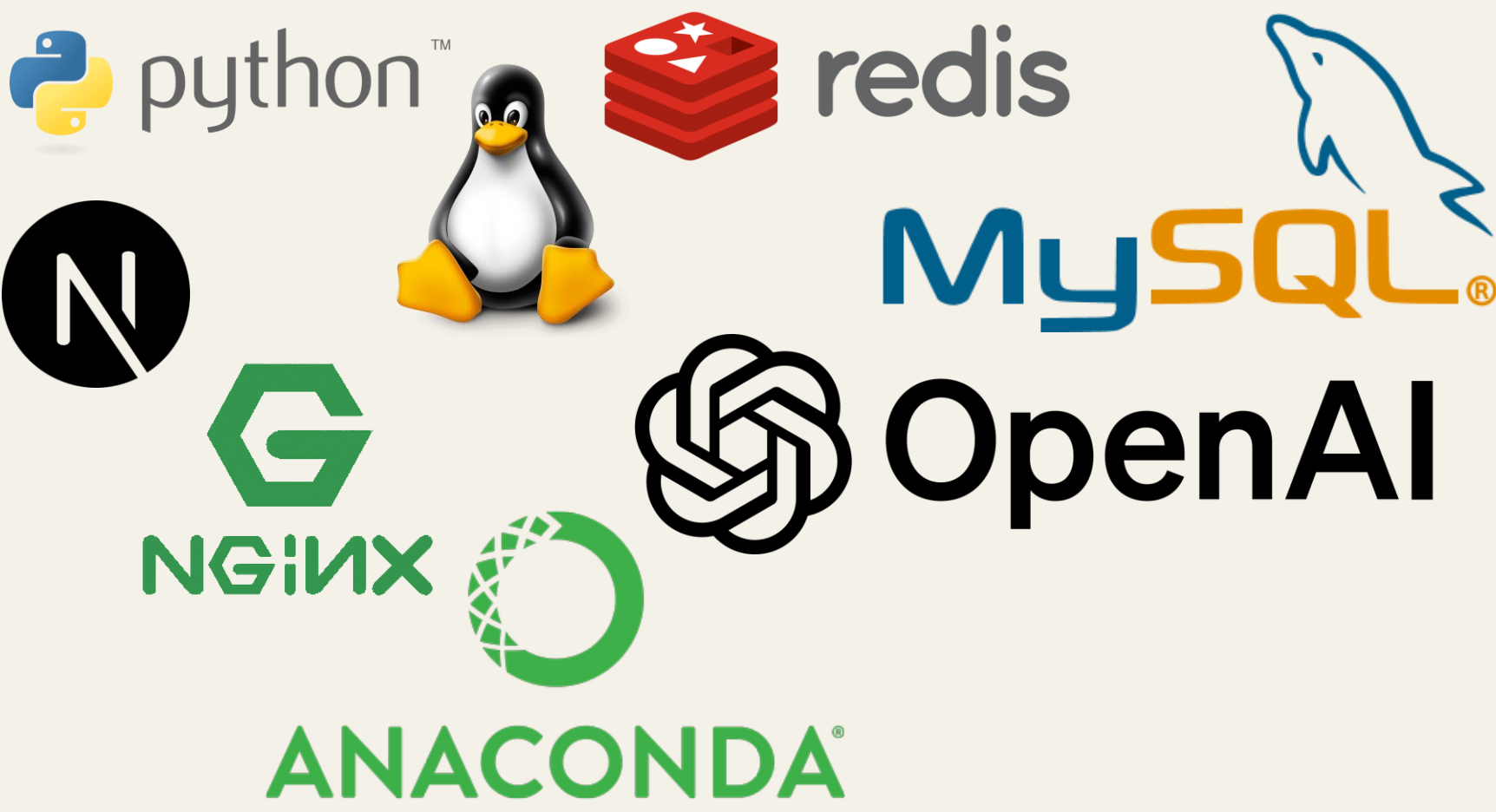


CrumbAI Github:

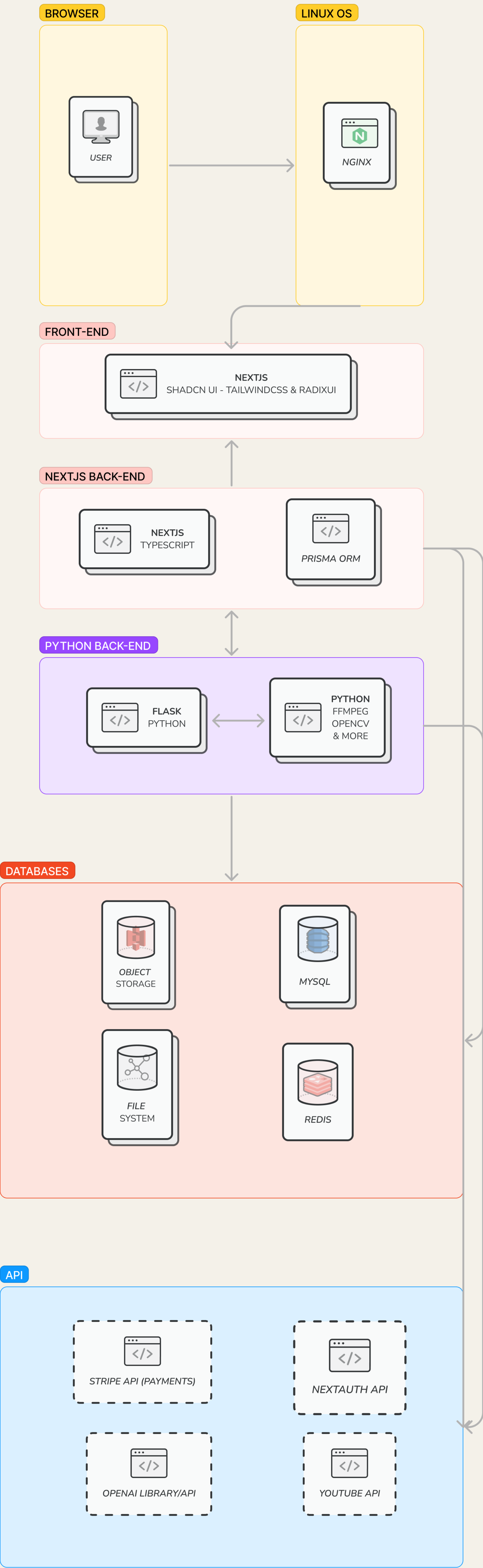


System Architecture

Technologies used:



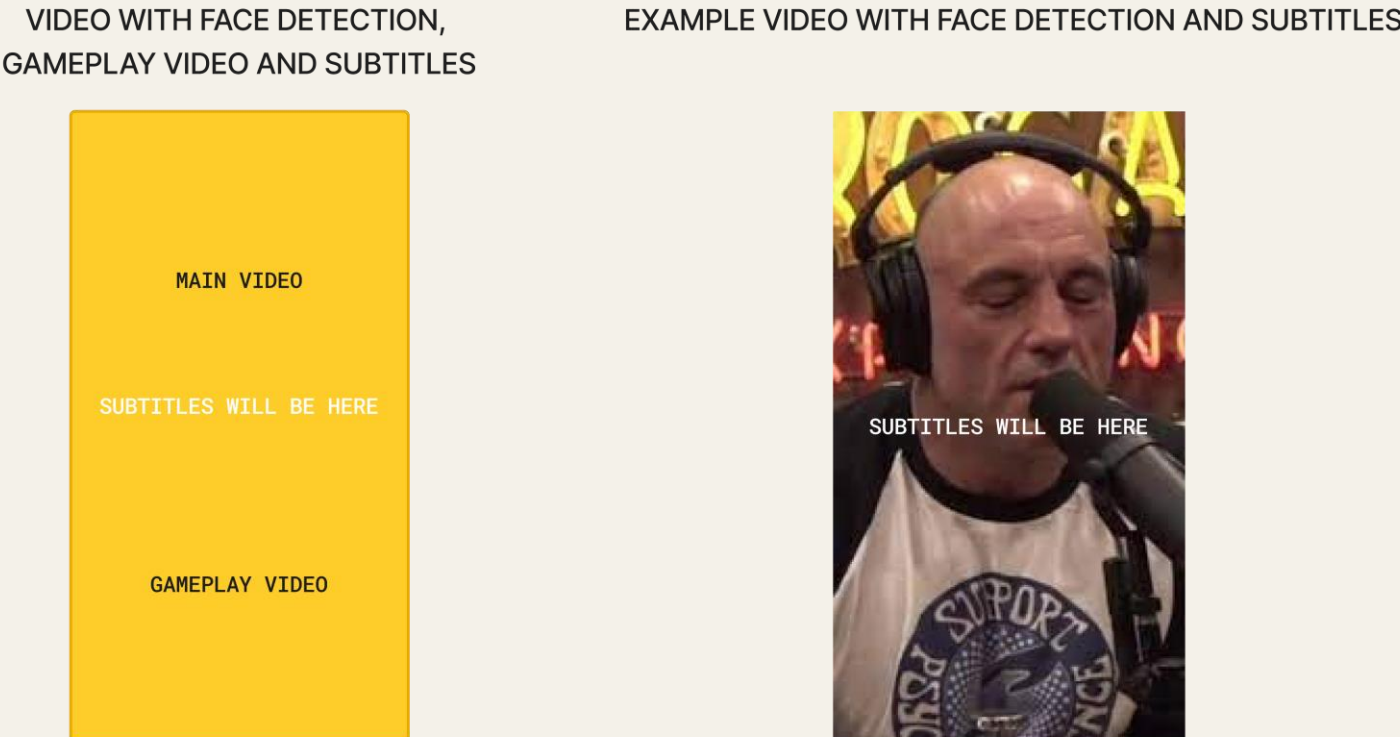
Software Architecture:



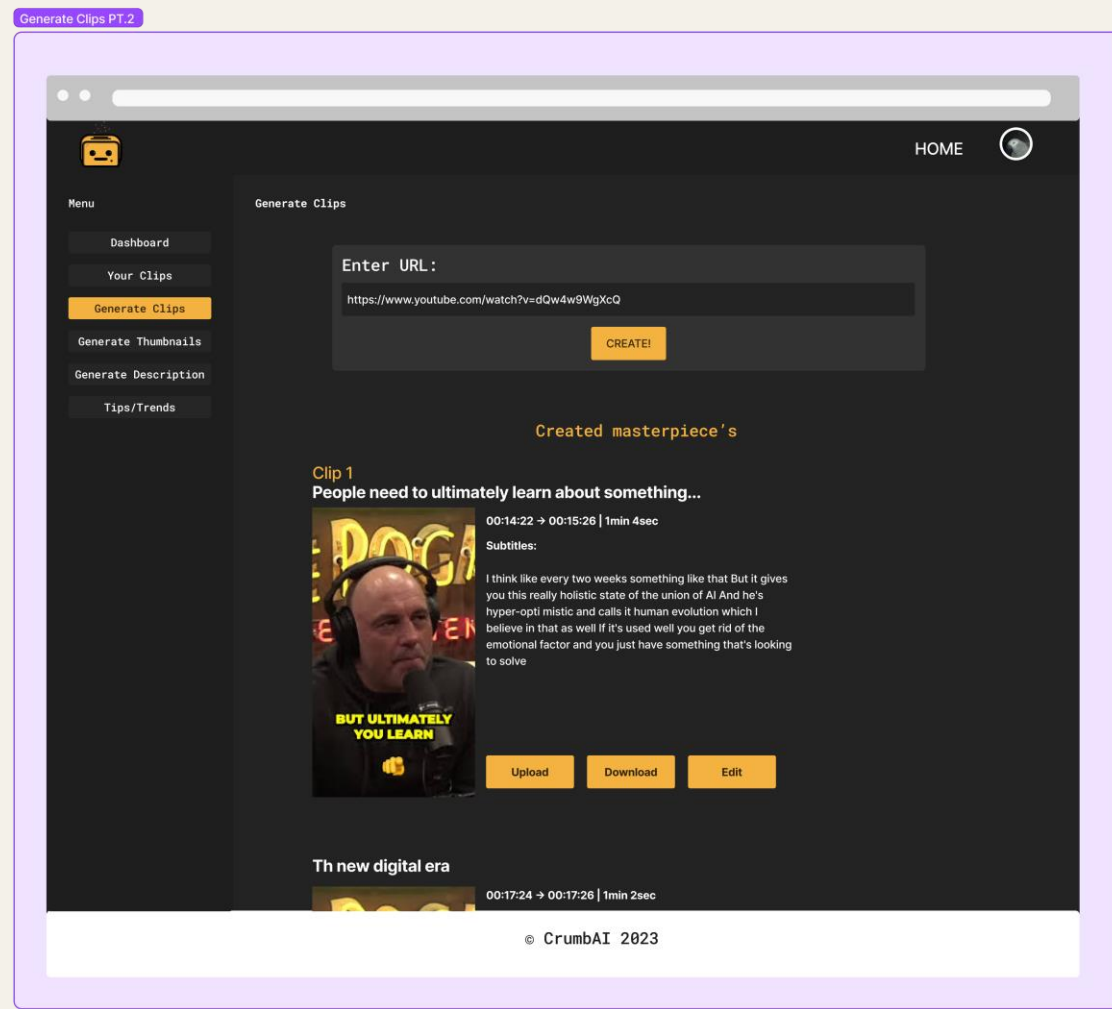
Wireframes

During the planning phase, wireframes were used to visualise the product's end goal. They helped us envision the desired appearance of videos and the user interface design.

Video Wireframe



UI Wireframe



Results

Videos outputted by CrumbAI: Features, face detection, subtitles and a “gameplay” clip.

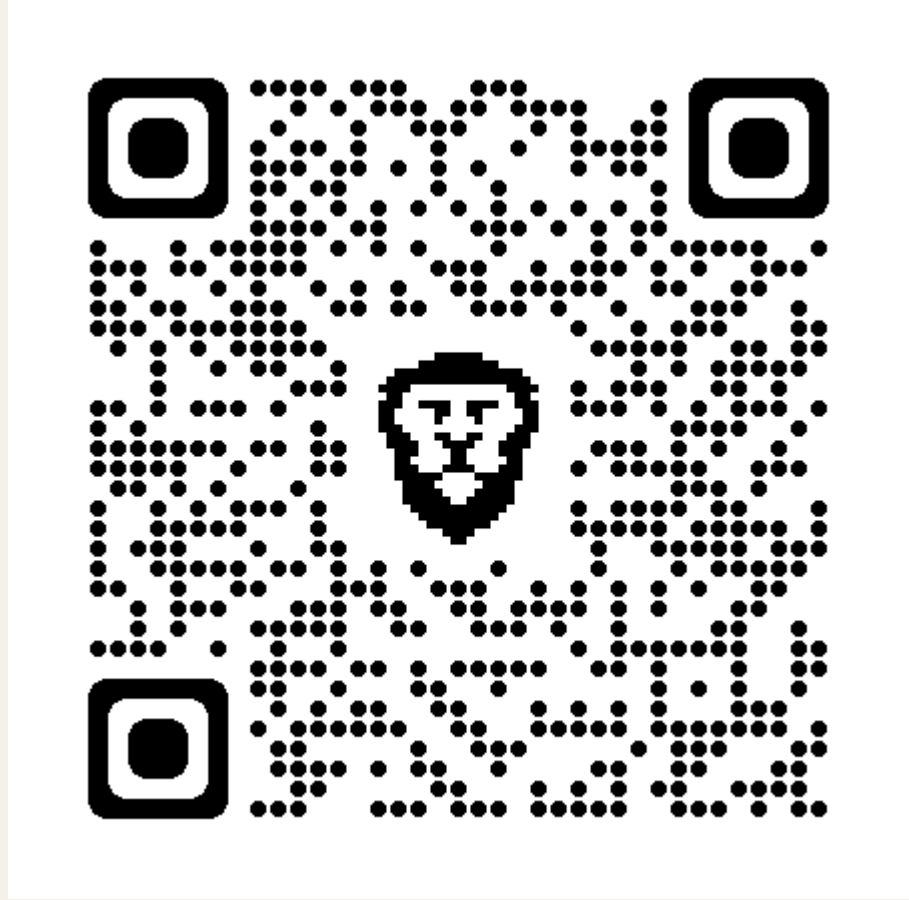


Demo Tiktok:

If you would like to see some more videos, check out our TikTok account: @crumbshorts

Demo Login:

Visit:



Or visit, crumbai.com

Either create an account or use the demo account below:

Username: demo@crumbai.com
Password: Demo123

Conclusion

CrumbAI has successfully shown us how AI can streamline the video editing process and produce quality short-form content for platforms like TikTok that could garner millions of views.

Ultimately, we were happy with the result and met our personal and project objectives.