# Al Tools For Media Servers

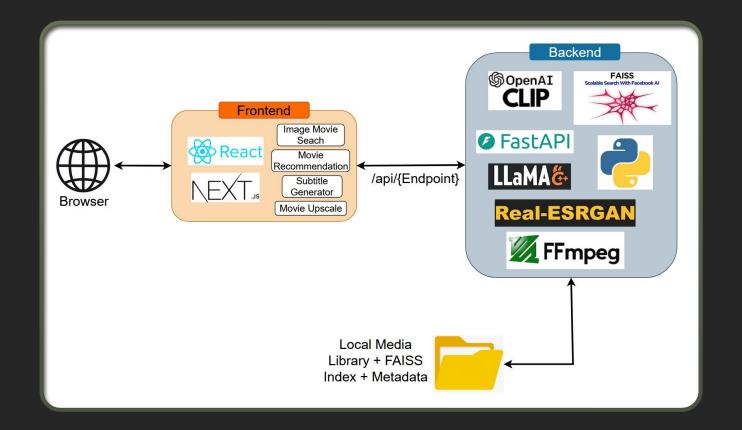
By Cillian Jennings

### Overview

- A website with four tools for media management
- Media Recommendation
- Subtitle Generation
- Image Movie Search
- Video Upscaling

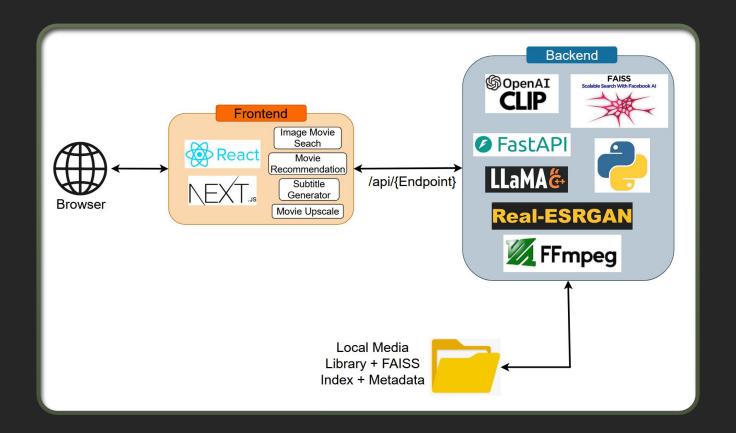
#### Frontend Technologies

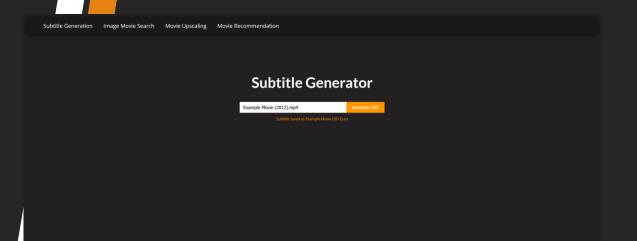
- React Javascript library for building UIs
- Next.js React framework for building web applications
- Four pages with navigation bar at the top.

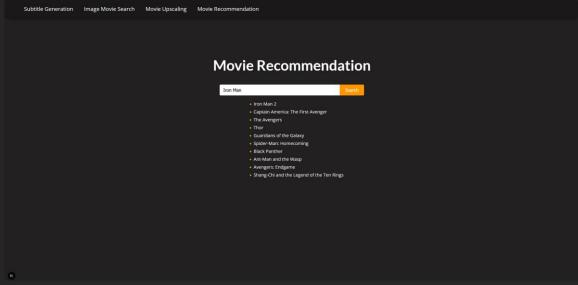


#### Backend Technologies

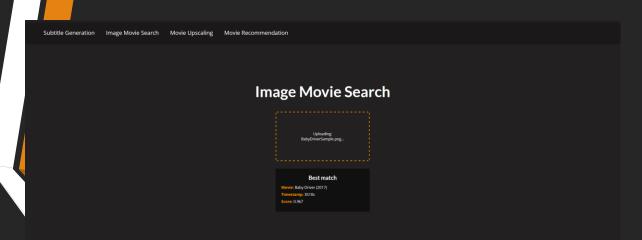
- Four python scripts FastAPI routers and one main script.
- FastAPI web framework for building web applications
- Real-ESRGAN Image superresolution model
- Llama.cpp Run Llama models locally.
- Ffmpeg commands for handling multimedia
- OpenAl Clip model create embeddings
- FAISS library for similarity search over vector collection.
- OpenAl Whisper Speech recognition model

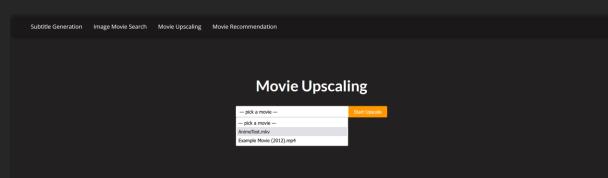




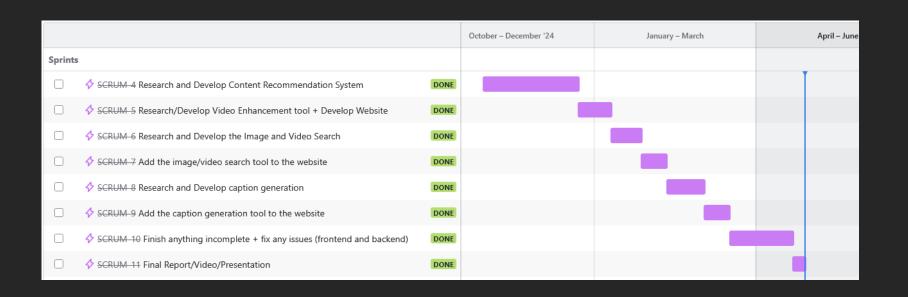


## Results





## Project Management



- I used Jira as a project management tool
- Created epics for each feature
- Also used Github and OneNote for storing files and notes.