Important consideration for application deployment (alpha release)

1. Authentication

The authentication and authorization feature of the application uses json web token and cookie. When user credentials are successfully verified the server sends a jwt token in cookies(secure). Since frontend(nextjs) and backend(express) js are running on different ports on development, we need to make sure it works on production(needs to run on same port). Nginx can be an appropriate tool for this purpose.

2. FFmpeg/video conversion

When video is uploaded to the server while creating a course, the fluent-ffmpeg api converts video into different resolutions into the disk. The ffmpeg binary should be installed in the system for the feature to work. This allows playing video in different resolutions. For production we need to upload our video to services like aws s3 bucket. We might also consider adaptive bitrate streaming by integrating aws services.

3. CI/CD

Continuous integration and deployment pipeline needs to be set up. Tools like github, docker, docker compose, travis-ci can be used.