

Final Project Technical Implementation Plan

Project description

Our final project is a web application about video, it is like simple YouTube. Everyone can watch videos on this website without logging. And if you want to comment about the video you watched, you must login. To build the recommended system, users can also rate the videos, click like. If you want to watch the video in the future, you can collect the video and find it in your profile.

For the videos, they will be stored in the cloud server. Videos can only be uploaded by the admin. Admin has the permission of editing the videos information. Plus, the admin can delete the comment which is violating content.

If users have questions, they can send messages to the admin. In this situation, the application will build an instant chat room for user and admin, it will not record the content, which is like amazon customer service.

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Group Members

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Course Technologies

- **React**

We will use react to build our pages, use this library to realize component development. It is convenient for us to code the frontend and backend.

- **Redis**

Redis will be used to store the cache of homepage which can show the homepage and decrease the visit of database and render. What's more, users token will be stored in it to check whether user is expired.

- **Socket.io**

We will use this tech to build the chat room for users and admin to help users solve their questions.

Independent Technologies

- **ImageMagick**

ImageMagick is a very powerful image manipulation utility. It is a command line utility that essentially allows you to perform any sort of conversion imaginable on an image. We will use this tech to deal with the cover of the video.

- **AWS**

Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering over 200 fully featured services from data centers globally. We will use this tech to help us to easily and quickly arrange the server on the cloud server.

Github:

<https://github.com/linyue1233/554-final-project.git>