

Individual contribution

Introduction

My team members and I made a simple video website this semester so that everyone can share and upload their videos on it. Working as a group is not easy, but we finally finished it. I learned how to work as a team and it is a good opportunity to know some examples of how the real IT industry work on web development.

Role and Responsibility

As an IT beginner, I read up a lot of tutorials on website development before starting this project. Then, I noticed that a completed web development should include back end and front end. Based on current popular mode of web developing, we decide to separate the front end and back end since it is convenient for us to divide the project into several pieces developing in parallel and check if errors occur on the front end or the back end.

I choose to mainly focus on the front end and act as a front-end manager on a team to lead members who are responsible for front end to design the UI interface including web page layouts for several functions as well as the interactions with the users. Furthermore, I organize front-end meeting making front end decisions to have better web development.

For my developing part, I am mainly responsible for the sign in/out/up system that users can have access to the website with more functions like watching videos, uploading videos after they sign in the website. As client's request, I developed an administrator system that can be used for website administrator to manage all accounts on this website including deleting, updating as well as adding an account. In addition, I am responsible for video play page which user can like or dislike a video and watch the video.

Recording the process of development is also part of my work. For example, we have a group meeting each week which is aim to find some problems or challenges during the development. As a front-end manager, it is my responsibility to ask the current progress of front-end members and their ideas about client requirements and in which way we can perform these on the UI. After meeting, I would record front end decisions and current work we are doing, have done or plan to do.

As a product owner in agile development, the communication between the team and the client is also important, based on the feedback from the client we can make adjustments and improvements. Therefore, I am the person who contact with the client to organize a meeting to discuss the requirements or something can be improved to meet client's expectation. My client sometimes has some requests that are pretty difficult to achieve at this level. After having several meetings and patiently explain to the client, functional requirements are finally determined and we successfully finish the project.

Project Development

Sprint 1

Sprint 1 happens from week 1 to week 6 which is a preparation stage to determine client's requirements, UI prototype design, start up for developing tools and programming languages and attempts for unit functions implementation. I designed the administrator page, video play page, sign in/up/out page and logo creation during the UI design stage. Then, I recorded client's requirement such as sign in, video play and make the user story. In terms of the developing tools, I did several research on the front-end framework like React, Vue and decided to use Vue for the front end with my front-end members. Furthermore, I learned basic knowledge of front end such as Html, CSS and JavaScript.

Sprint 2

Sprint 2 happens from week 7 to week 9 which is a main development stage to implement client's requirements and establish connections between front end and back end. For development part, I successfully implement the administrator page and sign in/up/out page. Due to the ambiguity on the data format, I failed to connect to the back end to get and send data. Then, I talked with the back-end members and fix that problem quickly. In addition, I learned some knowledge of the Vue since it would be useful for the final integration part.

Sprint 3

Sprint 3 happens from week 10 to week 12 which is an integration stage using Vue components and Vue clip to combine others' work and testing stage. After finishing all requirements functions, I improved my functions like adding like and dislike functions to the video play page, adding searching bar to the administrator page so that administrator can quickly search the account. Combine my Vue components with others'. In terms of debugging, I fixed some bugs like refreshing after data changed, display errors when skip to another pages, data updating errors and so on. In addition, I wrote several test cases about updating and deleting user in admin mode and video play page to make sure all functions work properly.

Presentation

For presentation stage, I gave presentation on the choice of tools and technologies used during the whole development, design of the product like architecture diagram.

Peer feedback

Every member's comment on me is positive, which really makes me happy and I have a great sense of achievement that I am needed by others. However, I feel that I still can have several things to improve. For example, sometimes when I have group meeting with my teammates,

we may have different opinions and sometimes I may have an argument with my team member to persist my stand and ignore team member's feeling, I should be calmer and control my temper better. Anyway, I still enjoy the process of the web developing with my teammates and very happy to have such a wonderful moment during my three-year studies