COMP9900

Information Technology Project

2020 Term 3

Project Proposal

**Project 6**: FilmFinder

**Submission Date**: 2020.10.4

**Team Name**: [**COMP9900-H18A-ChongChongChong**](https://webcms3.cse.unsw.edu.au/COMP9900/20T3/groups/22976)

**Team members**

| **Name** | **zID** | **role** |
| --- | --- | --- |
| Yipeng Han | Z5192958 | Scrum Master/Developer |
| Mingyan Yu | z5196418 | Developer |
| Ziwei Li | z5187737 | Developer |
| Kaisen Luo | z5185842 | Developer |

**Background**

In recent years, the film industry has been booming, and advances in film shooting and production technology have allowed the production of films to increase greatly compared to before. Movie lovers may encounter great difficulties when searching for movies. At this time, they yearned for a movie website. This website organizes movie information for them. Including the movie's name, director, genre and other information. More importantly, many movie lovers can publish film reviews and score of movies on the website. This is very attractive to movie lovers who are eager to find movies to watch. First, they save the time of non-stop searching on Google, and secondly, they can get a better user experience, and they can even check the movie reviews before watching the movie to guide whether the movie is worth watching.

We have visited some websites which are trying to achieve this objective. However, the efficiency of these websites is not high enough. First, most movie websites have too many functions. They not only have movie retrieval functions, but also come with a module for buying movie tickets. This is unnecessary for someone who just wants to retrieve and watch movie reviews and scores.

Secondly, the UI of many movie websites is too fancy, not concise, and clear enough, which may cause great difficulties for users when using it. Some misoperations are prone to occur and it is difficult to satisfy users.

Then, many movie websites only support keyword search. If a movie lover is a big fan of George Lucas, he may want to watch all the movies made by George Lucas and their scores, and the scores are sorted from largest to smallest. This is not possible on many websites. Users can only retrieve the movies made by George Lucas but cannot know at a glance which movie is most sought after by fans. Therefore, we will implement this function in the website.

Finally, we found that many movie websites do not have a recommendation function. This makes it difficult for movie lovers to find movies that are highly similar to their favourite movies. Therefore, we will improve this function in the FilmFinder project.

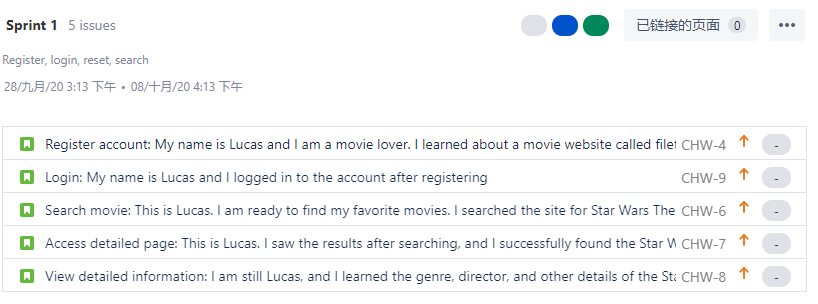
**Objectives**

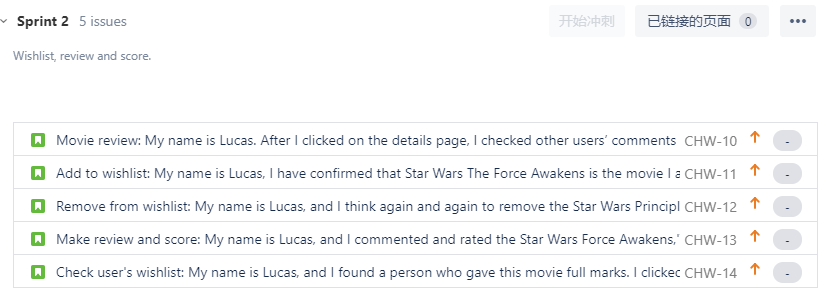
**User Stories and Sprints**

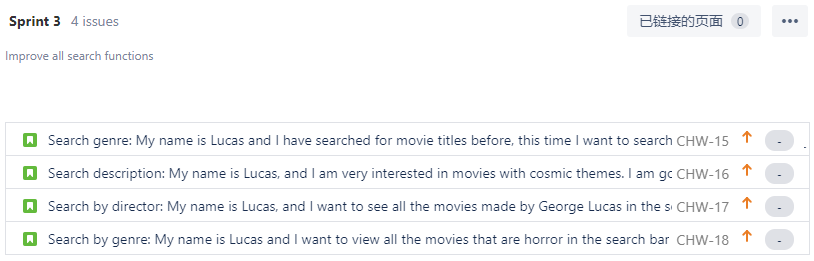
**Sprints**

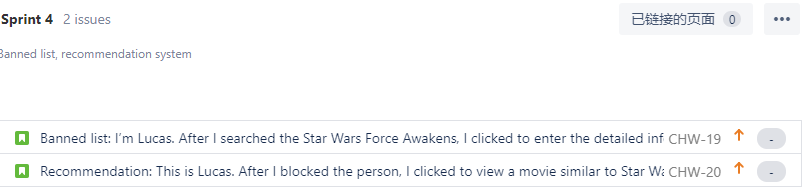
**User Stories**

1. [S1] Register account: My name is Lucas and I am a movie lover. I learned about a movie website called FilmFinder. I found the homepage of this website and registered an account.
2. [S1] Login: My name is Lucas and I logged in to the account after registering.
3. [S1] Search movie: This is Lucas. I am ready to find my favourite movie. I searched the site for Star Wars The Force Awakens.
4. [S1] Access detailed page: This is Lucas. I saw the results after searching, and I successfully found the Star Wars The Force Awakens. After I clicked it, I went to the detailed information page.
5. [S1] View detailed information: I am still Lucas, and I learned the genre, director, and other details of the Star Wars Force Awakens on the detailed information page. It turned out that the director was called George Lucas.
6. [S2] Movie review: My name is Lucas. After I clicked on the details page, I checked other users’ comments on Star Wars The Force Awakens.
7. [S2] Add to wishlist: My name is Lucas, I have confirmed that Star Wars The Force Awakens is the movie I am interested in, and I added him to my wishlist.
8. [S2] Remove from wishlist: My name is Lucas, and I think again and again to remove the Star Wars Principles Awakening from the wishlist, because I know that Disney’s Star Wars is very bad.
9. [S2] Make review and score: My name is Lucas, and I commented and rated the Star Wars Force Awakens,'Trash movie' and 0 point.
10. [S2] Check user's wishlist: My name is Lucas, and I found a person who gave this movie full marks. I clicked on his homepage to view his wishlist.
11. [S3] Search genre: My name is Lucas and I have searched for movie titles before, this time I want to search for horror movies. I typed horror in the search bar.
12. [S3] Search description: My name is Lucas, and I am very interested in movies with cosmic themes. I am going to search according to the description in the search bar, and I enter star
13. [S3] Search by director: My name is Lucas, and I want to see all the movies made by George Lucas in the search bar.
14. [S3] Search by genre: My name is Lucas and I want to view all the movies that are horror in the search bar.
15. [S4] Banned list: I am Lucas. After I searched the Star Wars Force Awakens, I clicked to enter the detailed information page and pulled the first reviewer directly into the banned list.
16. [S4] Recommendation: This is Lucas. After I blocked the person, I clicked to view a movie similar to Star Wars The Force Awakens and went to the detailed information page.



****

****

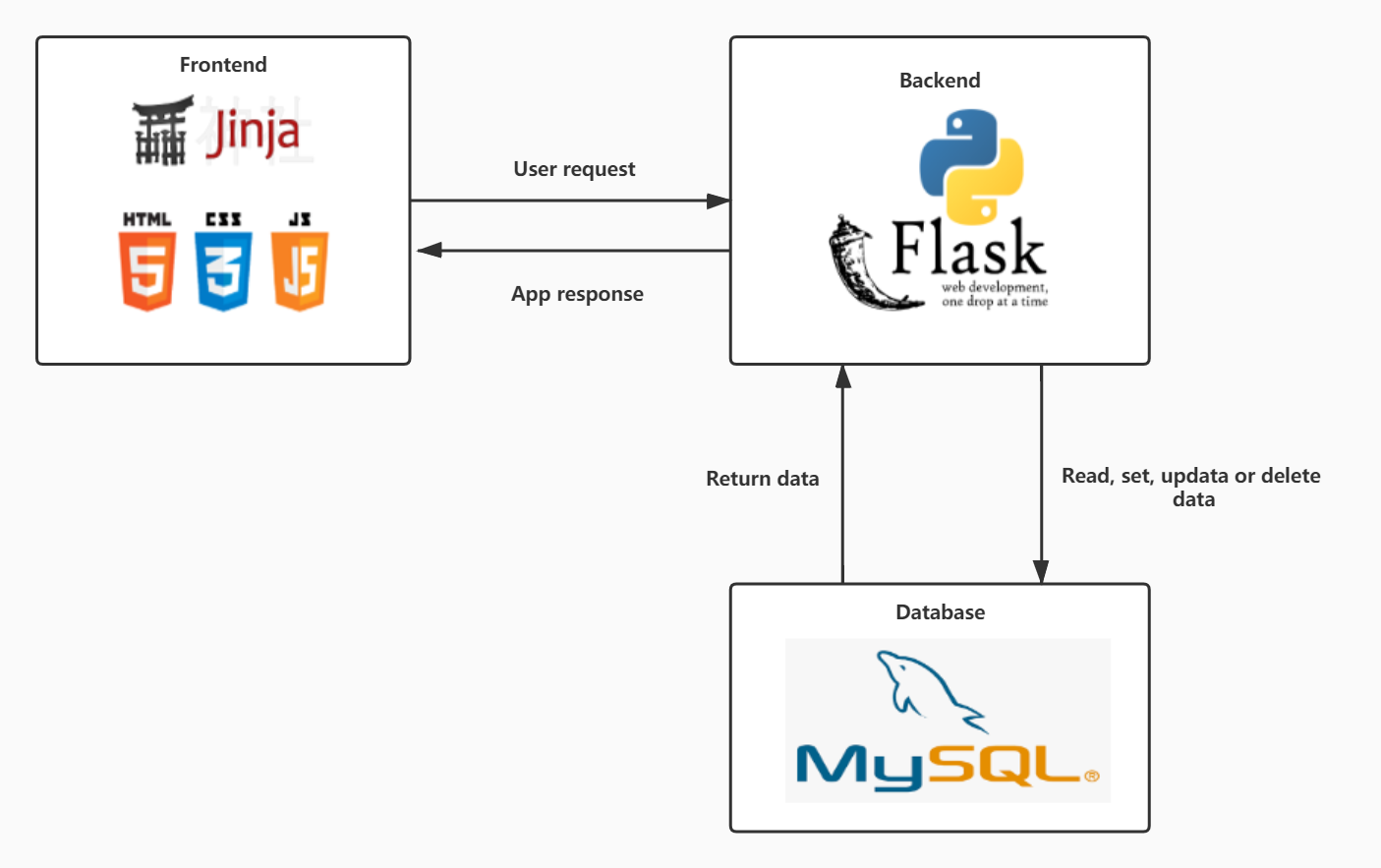
****

**User Story Analysis**

**System Architecture**

The system contains three layers, frontend, backend, and database. The frontend is the client facing application for users to interact with. The backend handles the application logic for reading and storing data in the database and returning relevant information to the frontend client. And the database is for storing all the application and user data. All our users will be interacting with the application through the frontend client facing application.

We will be using Python and Flask framework to implement the backend. We will also be using PyMySQL which is an object-relational mapper to connect the backend with the database. And we will be using MySQL for the database. For the frontend, we will be using Jinja templates with HTML, CSS, and JavaScript.



**Group Management**

1. **Daily communication: By using Wechat, Github and Jira**

Our team members will communicate daily to ensure that we are on the right track and can complete the goal on time**.**

1. **Weekly Video Meeting: In lab (through BB Colab), Wechat group video meeting**

Weekly meetings will ensure that we reach our goals and provide us with a good place to evaluate, revise and stick to the plan.

**Interface and Flow Diagram**

First, all users will see the homepage of the website. Currently, they are visitors.