1.Project Title

Movie Information Website

2.Project Summary

Our project is a website of movie information. Its functions include user sign up, login, movies and actors' information, rating and reviews, actor information, and movie recommendation for users. The database contains information of movies, information of users, information of review and information actors.

Besides, users can search movies and get the detail information of movies and actors in website, write, modify, and delete their reviews of the movies. And they can see movies' rating of each movie website. And they can modify their labels to get different movies' recommendation.

3.Description of an application of your choice

We want to show users the information about movies and actors, provide them a platform to express their opinions of movies and get others' opinions of movies. Besides, the platform will recommend movies to users according to users' labels and the movies users watched. It is convenient for users find movies they are interested in.

4.Usefulness

Nowadays, many people prefer to watching movies in leisure and they wish to spend less time on looking for movies they might like. The difficulty of looking for movies is partly due to different scores and reviews on different movie review websites, the difference between movie review websites may mislead people's judge about movies.

Therefore, we want to build a website, which collects rating and review data from those movie review websites, display movies and actors' information and build a movie recommendation system for the users, so they can find what they look for more easily. The data will come from websites including Rotten Tomatoes and New York Times reviews. Our project is unique in that it combines the ratings from different websites and recommends movies to users based on their labels.

5.Realness

1). Imdb website

Data source：https://datasets.imdbws.com/,
Title.basics.tsv.gz: movie information
name.basics.tsv.gz: actor information
Title.crew.tsv.gz: Directors and screenwriters

2). Kaggle movie dataset

Data source：https://www.kaggle.com/rounakbanik/the-movies-dataset
Ratings.csv：Ratings of movies
Links.csv: link table for movie IDs of this dataset with movie IDs of IMDB website
movies_metadata.csv：reviews of movies

3). Self-built database that stores user information, including account names, email address, and passwords

6. Description of function

6.1. Description of database

Movie: (movieID, name, ratingFromIMDB, ratingFromTomato, duration, genre, cost, director ID, releaseDate, directedBy);

Watch: (userID, MovieID);

Act: (actorID, movieID, roleName);

Review: (reviewID, content, movieID, source, userID, writtenBy, reviewedMovie);

Actor: (actorID, name, birthday);

User: (userID, username, password, preferredGenres, email, phoneNumber, adultStatus);

Director: (director ID, name, birthday)

6.2. Basic functions

Simple: register new account, login, write/modify/delete reviews, search movies and actor information, change personal information, filter movie reviews based on comment time and source, and look up ratings and reviews on different movie websites，

Complex: movie recommendation, general rating from weighed ratings from several websites

6.3. Creative component

Recommending system that predict the preferred movies of our users

7. A low fidelity UI mockup

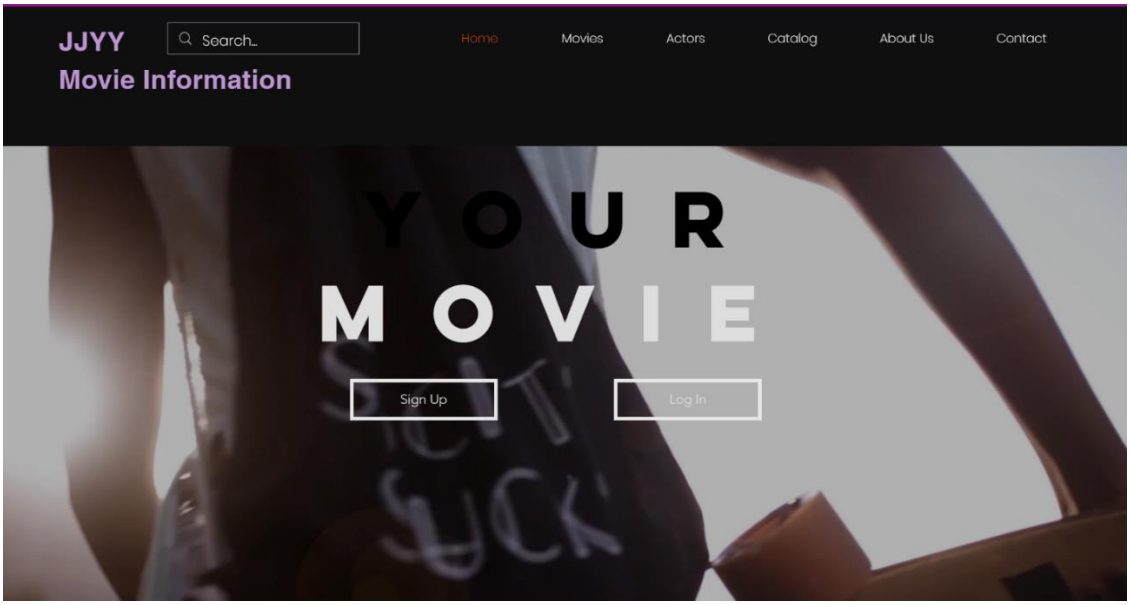

Figure 1 Home page

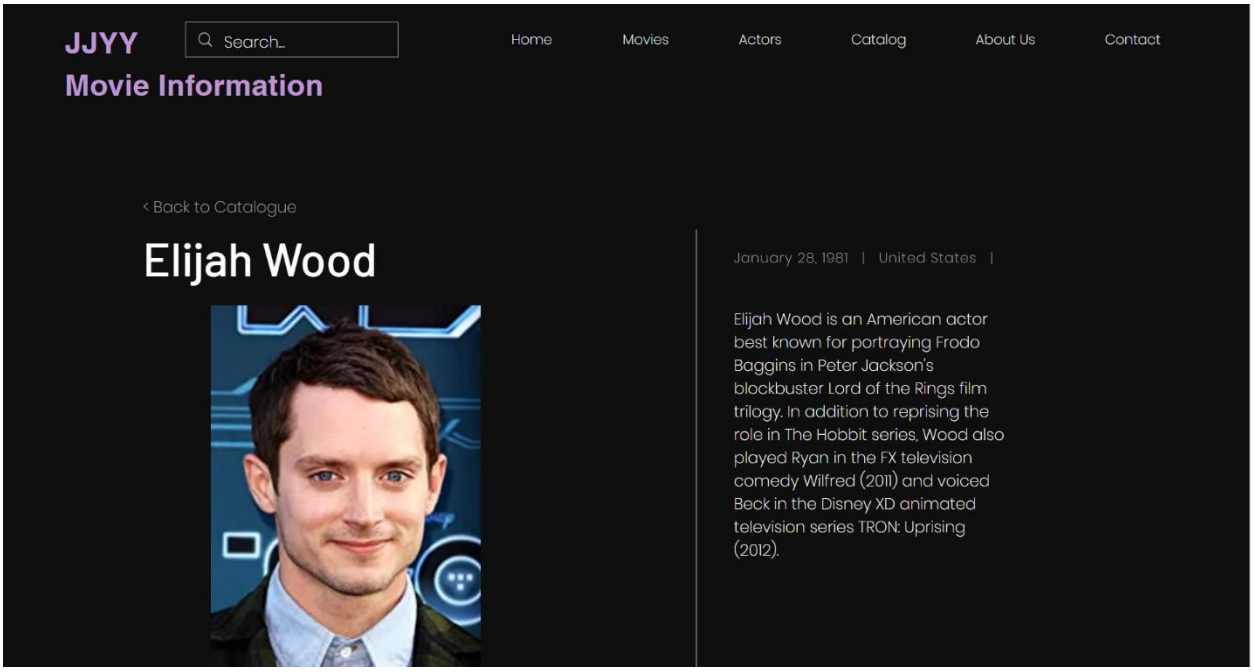

Figure 2 Actor Information Page

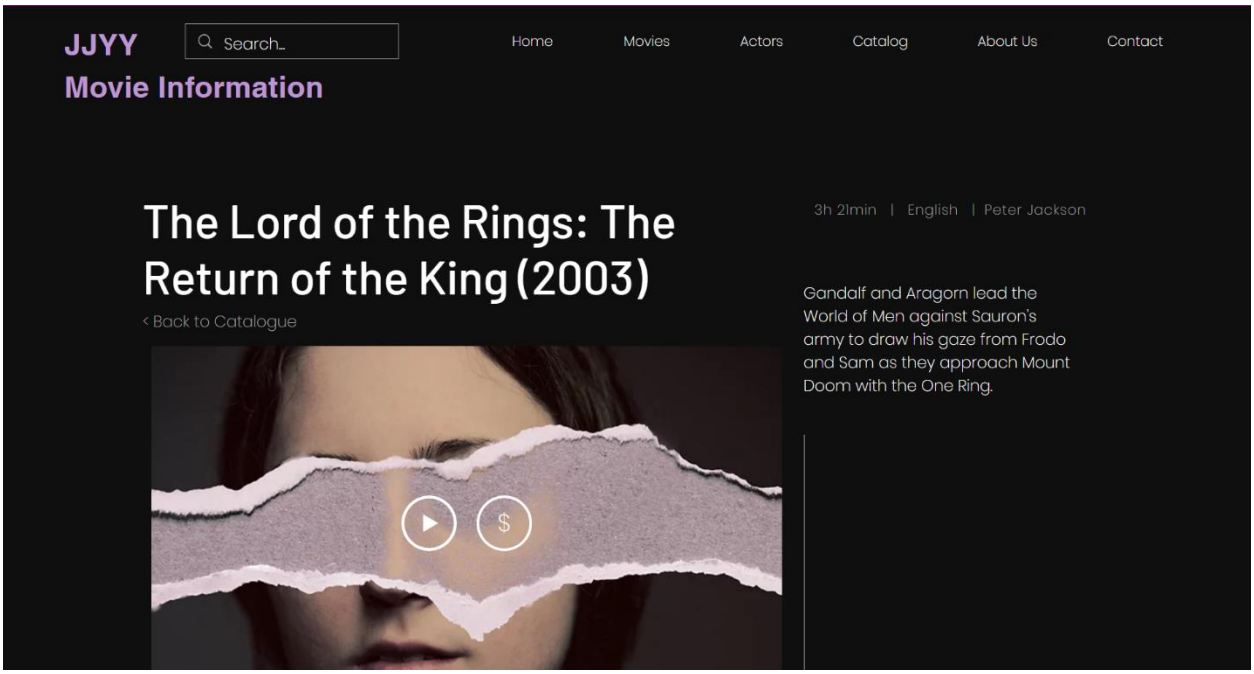

Figure 3 movie Information Page

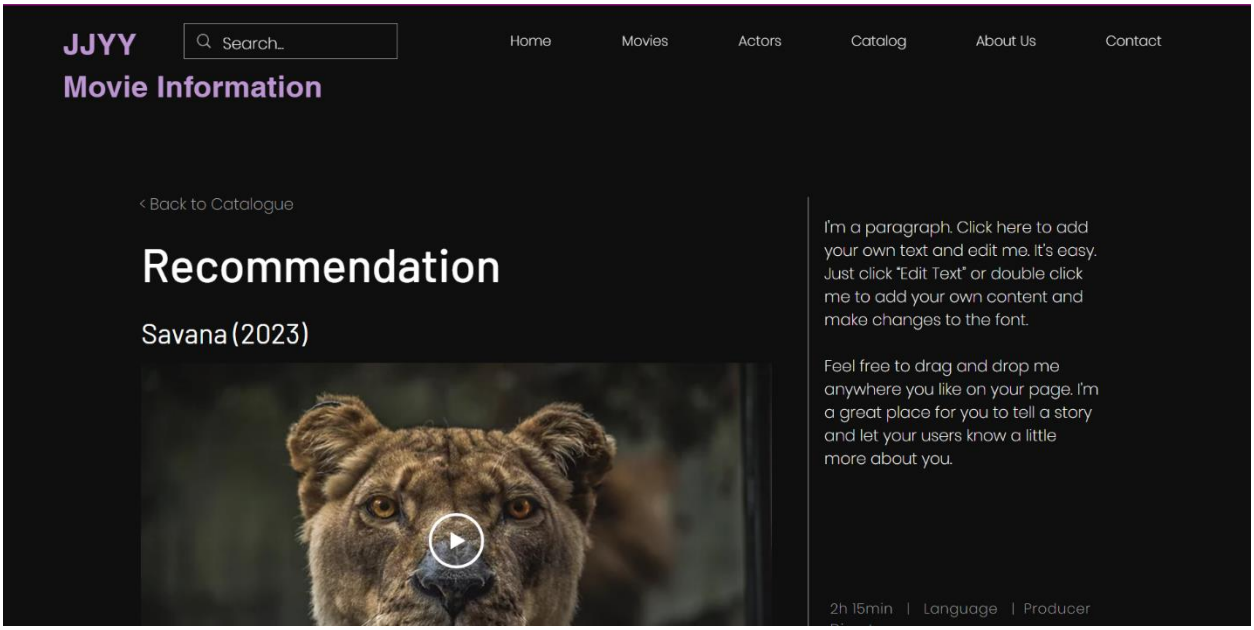

Figure 4 Recommendation Page

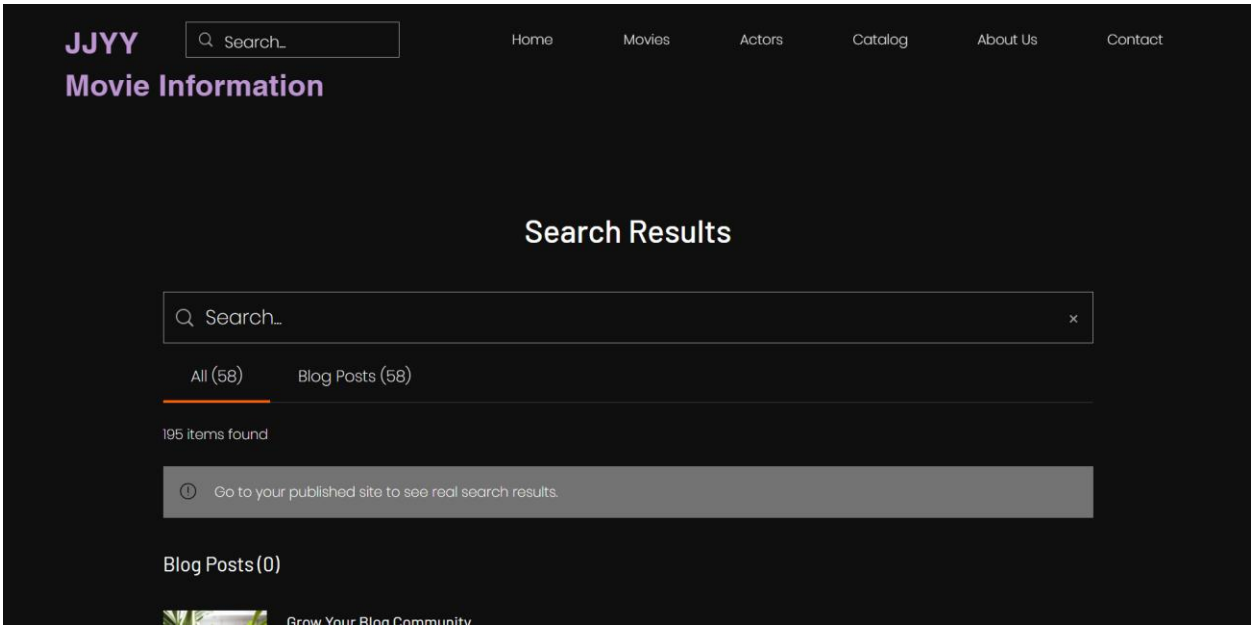

Figure 5 Search page

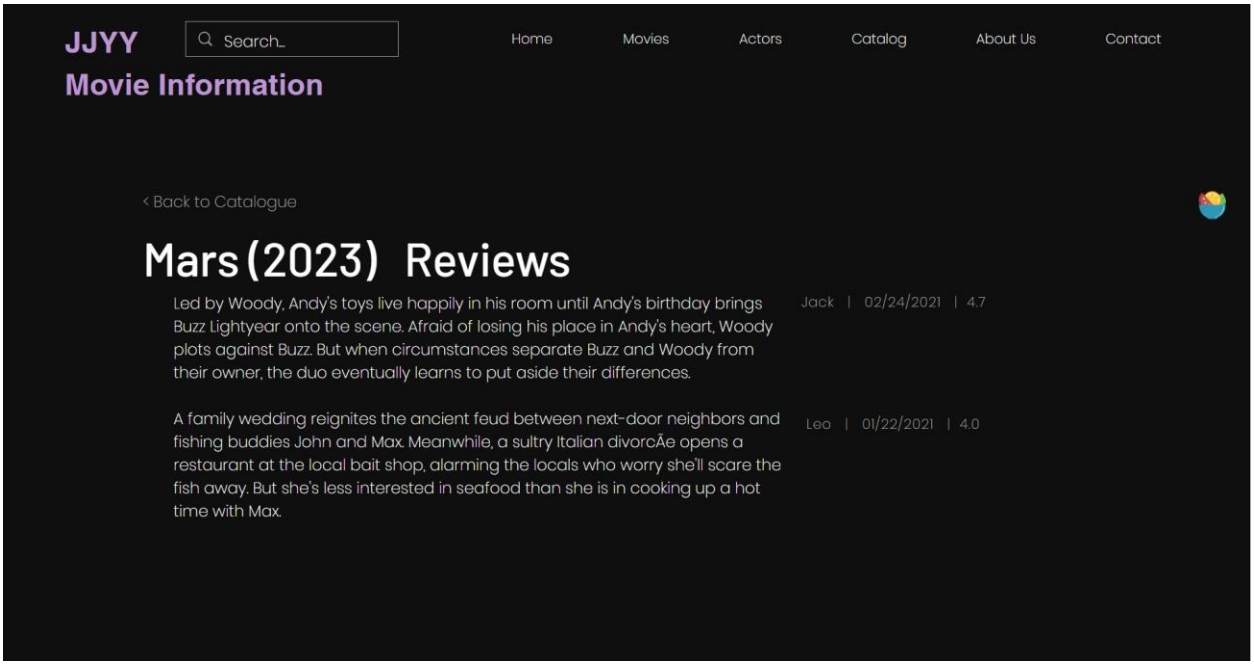

Figure 6 Review page

8. **Project work distribution**

Building databases: all
UI design: Jane Chang
Login and registration functions: Yeting Qi
Looking up movie and actor info (connecting databases and cleaning up data): Jinghong Li, Yizhen Ma
Recommendation algorithm: Yeting qi,Jinghong Li
Adding/Deleting/Modifying movie reviews: Jane Chang, Yizhen Ma