

Product Backlog

- **Movie Information**

Information is provided by IMDb.

First retrieve information of 100 movies with API: IMDbPY, as sample data stored in server database. More information can be retrieved in need.

- **Review and Comment**

Most importantly, the topic of our web site is movie. Therefore, the basic functionality of our app is leaving movie reviews and comments.

In detail, users could leave their movie reviews under each movie page. One could either choose to leave a short one-sentence comment via a pop-up dialog box or choose to write a thorough, complete review by going to a full editing web page. Also, users could check out others' review and leave comments.

- **Ticket Booking**

Use Fandango's API to implement showtime and online ticket booking.

If the movie is in theater, its information will appear in "In Theater" page, and a "Get Tickets" button will appear under the movie poster in "Movie" page. By clicking "Get Tickets" button, user can get nearby theater and showtime information provided by Fandango's API, and go through the booking process.

- **Recommendation**

Three types of recommendation mechanisms are employed in our application.

One of them is recommending movies in the section "people who liked this movie also liked" under each movie page. In order to accomplish this feature, we could go over the liking-lists of all users who like a certain movie, then select most favorable ones as recommended movies.

Another mechanism is recommending users that have similar preferences to a certain user. We could probably use basic machine learning techniques such as Naive Bayes or kNN to solve this problem, viewing every movie tag or genre as a feature and then every user as a data point. This type of recommendation is usually placed in the side bar.

The last one is recommending movies based on the movie watching history of a specific user. By capturing genre and tags of the movies a user liked, we could customize the recommendation to different individuals.

- **Social Network**

The sociality in our app is reflected in several aspects.

First, all users could post their movie review under each movie page and not surprisingly, they could also post comments under each other's movie review.

Second, users could follow each other. Moreover, we provide an efficient way for users to decide in which user s/he might be interested. That is, by recording users' preferences, including likes and dislikes, we have a good mechanism to recommend other users to a specific user.

Third, in each user's personal homepage, all recent movements, for example, posting a review or clicking a like button, are displayed. Users could check others' personal homepage as well.

- **Account management**

One notable design in our application is that users could participate as a guest. They could view other users' movie reviews, check movie introductions, search for movies, and so on. Users must, however, log in before writing a movie review, leaving comments, clicking "like" or "dislike" button.

As usual, account registration page, log in page, password changing page and password resetting page are included to provide users with a complete account management method.

- **Celebrities**

Directors and stars under a certain movie page all have their own profile page, in which their personal profile, biography, recent works and well-known works are listed.

- **Server Deploying**

Server will be deployed on AWS or Heroku, which will be decided during sprint 2.