

# Movie-Book Cross-Domain Recommender System

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# Key Requirements

- **SIGN UP/ LOG IN** (unique username)
- **SOCIAL NETWORK:**
  - A user can search for other users, follow/unfollow them, see their rated movies/books and the users they follow in turn
- **PROVIDING MOVIE/BOOK RECOMMENDATIONS**
  - Users would be provided with recommendations on the basis of their previously provided ratings, the genres they like, and the overall ratings of books/movies, and also based on the likings of the users they are following
- **RATING A BOOK/MOVIE**
  - Users can update the database by providing a number rating (on a scale of 1-5) to a book/movie
- **LIKING/DISLIKING A GENRE**
  - Users can like/dislike any GENRE and see related movies/books and see other related genres to a particular genre
- **SEARCHING FOR A MOVIE/BOOK/GENRE**
  - Users can search for a particular movie/book which would take them to the details page of that. The page contains details of a movie/book like the Plot, Cast, Director, Writer, etc, and also its related movies and books.
- **RELATED PEOPLE**
  - User can see people related to a particular person on the basis of books and movies they have worked on together
- **CROSS-DOMAIN RECOMMENDATIONS**
  - Users will also receive suggestions for books based on their likings in movies and vice versa
- **ANALYTICS**
  - Spotlight feature where user can see popular movies, book and genres

# Implementation Notes

- Backend : NodeJs and Neo4j
- Frontend : React

Some Key features :

Social Network to follow/unfollow other users.

Cross domain recommendation : Since good book recommenders are not available in general, our app provides book recommendations based on movie likings of users

## Movie-Book Recommendations App

[Search by Name](#)[Search by Genre](#)

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[Log out](#)

### In the Spotlight

#### Movies



Frozen



Fargo



Beowulf



Solomon Kane

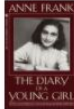


Hugo

#### Books



Twilight



Het Achterhuis: Dagboekbrieven 14 juni 1942 - 1 augustus 1944



An Excellent conceived Tragedie of Romeo and Juliet



Insurgent



Pride and Prejudice

#### Genres

[Adventure](#)[Romance](#)[Drama](#)[Animation](#)[Musical](#)

### My Recommended Movies and Books



Forrest Gump



The Godfather



Angels & Demons



An Excellent conceived Tragedie of Romeo



Catching Fire



Flickan som lekte med elden



Fahrenheit 451



Wuthering Heights

# Test Results

All test cases of the implemented use cases passed .

Some minor functionality like subjective reviews and ability to edit user details were left out for the better use of time, adding useful features. Additional features which weren't reported earlier were added like "Friends are Enjoying" and "Spotlight Genre" Section.

Git Link : [https://github.com/yashgupta-7/rec\\_sys](https://github.com/yashgupta-7/rec_sys)