

# Recommender System

## Software User Manual

### **SUBMITTED BY: -**

ANKIT KUMAR (IRM2016002)

AVINASH YADAV (ITM2016004)

NEERAJ MISHRA (IIM2016003)

CHIRAG MEEL (ISM2016006)

# 1. General Introduction-

Our project is a web app for movie website like netflix or MovieLens where a user is allowed to create an account and watch movies. This web app has mainly focused on the quality of recommendations we make to the user . From the various forms of recommendations we have used some of the most appropriate ones. The user can view the already watched and rated movies in the dashboard. But before that when the user opens the web app he is prompted to login the website if not registered we can as well register.

The web app has a nice GUI with every button and field labeled with their respective role. So, the user will not face any difficulty in using the web app.

## 2. Basic Modules

There are various major entities defined for the use case of this web app. They are –

**(i). Login and Register Module:** This module is what will see first after opening the web app. Here the user is asked to enter the username and password to be able to log in and see the dashboard.

If not registered, user can go to the registration page. Where it can fill the details and get registered after which certain questions will be asked for solving the “cold start” problem.

**(ii). Top K Recommended List and Watch List Module:** This module basically deals with already registered user where we display already rated movies by the user where user can as well change the ratings.

Then there is Top k recommended list module which shows the user recommended list of movies based on the user-based collaborative filtering method.

**(iii). Movie Details and similar movies Module:** This module is responsible for showing any particular movie details with the predicted ratings. Then there is separate section showing the similar movies based on the attributes and tags using item-item collaborative filtering.

This module inherently gets called whenever the user clicks on the movie to see the details.

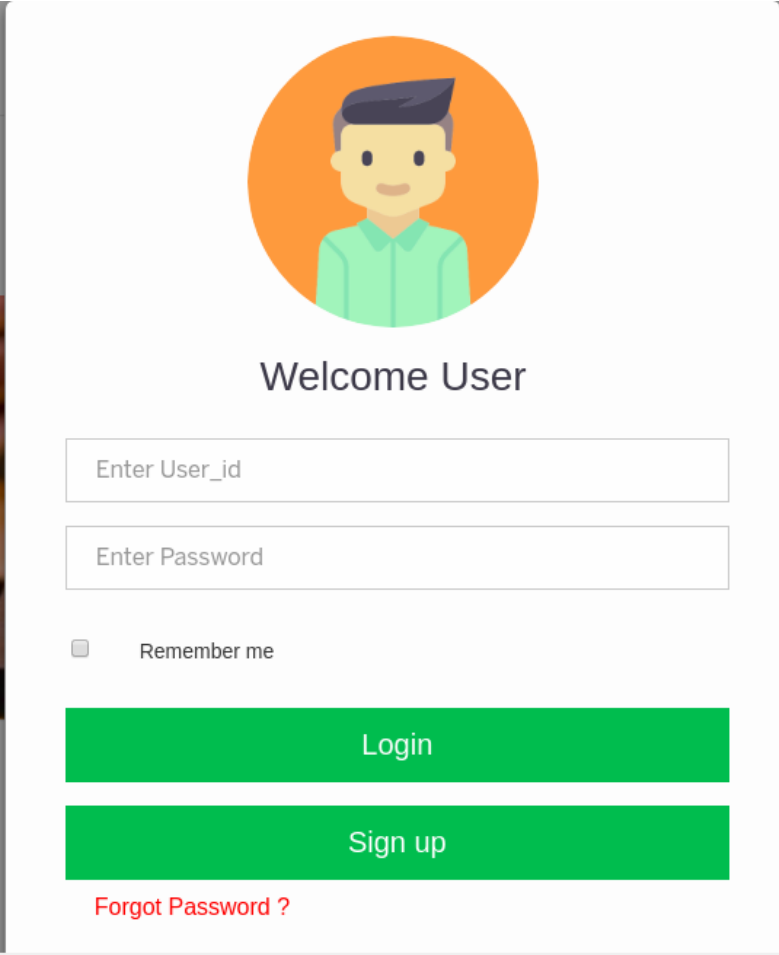
### 3. System Summary

First of all the user has to perform the following tasks :

1. When the user types the name of the website in the url, website will launch on his system.
2. The user will now be able to see the GUI components of the website asking the user to enter login details or register as new user.

Once the web app opens up the user will have the following functionality :

- a. The web app has one main layout where the user gets an option for logging in / register as a new user. This is the page where user gets the option of selecting whether we want to register or login. The following picture shows the layout of main page:



Enter User\_id

Enter Password


☐ Remember me

Login

Sign up

[Forgot Password ?](#)

And for a new user the registration page looks like:



## New User

### Personal Details

User\_id

Please enter User\_id

Name

Please enter your name.

Password

Please enter your password

Confirm Password


Please re-enter your password

☒ By clicking Create Account, you agree to our Terms and confirm that you have read our Data Policy, including MovieRec Cookie Use Policy.

Create an account


b. The Logged in user will see the following screen.

### Your Watchlist




French Connection

Rating: ★★★★★




Tron (1982)

Rating: ★★★★★



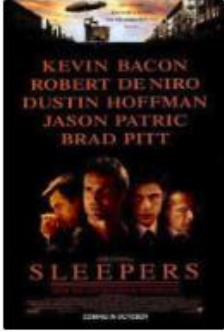
Cinema Paradiso (Nuovo cinema Paradiso) (1989)

Rating: ★★★★★




Dracula (Bram Stoker's Dracula) (1992)

Rating: ★★★★★



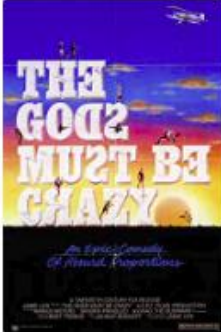
Sleepers (1996)

Rating: ★★★★★



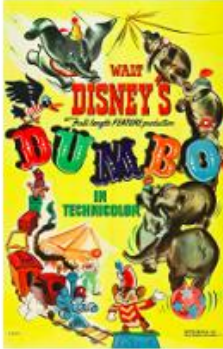
Blazing Saddles (1974)

Rating: ★★★★★



The Gods Must Be Crazy

Rating: ★★★★★



Dumbo (1941)

Rating: ★★★★★

C. The user can click any movie to see the details as shown.

localhost:5432/ratings/1/38061



Home → Movie Review → Kiss Kiss Bang Bang (2005)



## Kiss Kiss Bang Bang (2005)

**Plot:** A murder mystery brings together a private eye, a struggling actress, and a thief masquerading as an actor.

**Language:** English

**Country:** USA

**BoxOffice:** \$4,200,000

**Production:** Warner Bros. Pictures

**Predicted Rating:** ★★★★★

**Length:** 103 min

**Premiere:** 18 Nov 2005

**Category:** Action, Comedy, Crime

**Directors:** Shane Black

**Writers:** Brett Halliday (novel), Shane Black (screen story), Shane Black (screenplay)

**Stars:** Robert Downey Jr., Val Kilmer, Michelle Monaghan, Corbin Bernsen

- d. Below the above screen user will get list of recommended similar movies as shown.

Similar Items -

Kiss Kiss Bang Bang (2005)



L\u00e9on: The Professional (a.k.a. The Professional) (L\u00e9on) (1994)

Predicted Rating:



Moon (2009)

Predicted Rating:



Office Space (1999)

Predicted Rating:



Shaun of the Dead (2004)

Predicted Rating:



Children of Men (2006)

Predicted Rating:



In Bruges (2008)

Predicted Rating:



Hot Fuzz (2007)

Predicted Rating:



Thank You for Smoking (2006)

Predicted Rating:





- e. The user can also view a top K recommended list of movies based on the similar user who have rated the movie :

## User based collaborative filtering



Kiss Kiss Bang Bang (2005)

Predicted Rating:

★★★★☆  
(29)



The Intouchables (2011)

Predicted Rating:

★★★★☆  
(27)



\*Shawshank Redemption

Predicted Rating:

★★★★☆  
(311)



Her (2013)

Predicted Rating:

★★★★☆  
(25)



Inside Man (2006)

Predicted Rating:

★★★★☆  
(28)



10 Things I Hate About You (1999)

Predicted Rating:

★★★★☆  
(57)



\*Game

Predicted Rating:

★★★★☆  
(76)



Harry Potter and the Deathly Hallows: Part 2 (2011)

Predicted Rating:

★★★★☆  
(34)