

Project Name: Recommendation System

Team# 9

Test Stage: System

Test Date: 02/12/2025

Test Case ID#: FR-RE-T4

Name(s) of Testers: Marko

Test Description:

Testing the recommendation feature. Testing if recommendations are movies with the highest number of average ratings, number of ratings and genre similarity given that the movies rated have different genres.

Indicate where are you storing the tests (what file) and the name of the method/functions being used.

Test resides in recommendationTest.java file under the testing directory in milestone2. loadMovies(), add(), makeReviews(), ratingsFileExists(), readRatingsFile(), getMovie(), recommendMovies() are being used.

Automated: no

Results: Pass

Preconditions for Test: Empty ratings file, Ratings file is formatted correctly

Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Add reviews	List movies: "Forrest Gump", "Good Will Hunting", "Amélie", "Coco", "Toy Story"	All five movies are in my_ratings.txt and have a 5 star rating	All five movies were in my_ratings.txt and had a 5 star rating	Make sure your my_review.txt has no reviews before running test.
2	Initialize User object	Reviews list containing the 5 movies movies and moviesInReviews list containing the 5 movies.	User object with reviews list and reviewedMovies instance variables.	User object with empty reviews and reviewedMovies instance variables	

3	Initialize RecommendationEngine object	User object	Recommendation Engine object with user instance variable.	Recommendation Engine object with user instance variable.	
4	Call recommendMovies()	my_ratings.txt, reviewedMovies arraylist	Five movies with the highest number of average ratings, number of ratings and genre similarity	“The Lion King”, “Toy Story 3”, “Avengers: Endgame”, “Up”, “Interstellar”.	All movies in the result share at least one genre with one of the user rated movies, have a high avg_rating, and have a high num_ratings.

Post condition(s) for Test:

my_ratings.txt has the new ratings. Reviewed movies are stored in the reviewedMovies arraylist in User. Recommendations are printed to console.