

**Project Name: Recommendation System****Team# 9****Test Stage:** System**Test Case ID#:** FR-RE-T4**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.

**Automated:** no**Test Date:** 02/12/2025**Name(s) of Testers:** Marko

**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.

**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.

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**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.