

Project Name: Recommendation System**Team# 9****Test Stage: System****Test Case ID#: FR-RE-T3****Test Description:**

Testing the recommendation feature. Testing if recommendations are popular movies (highest avg_rating * num_ratings) given user has reviewed no movies.

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(), makeReviews(), ratingsFileExists(), readRatingsFile(), getMovie(), recommendMovies() are being used.

Results: Pass**Preconditions for Test: No ratings file**

| Step # | Test Step Description | Test Data | Expected Result | Actual Result | Notes |
|--------|--------------------------------------|----------------------------------|---|--|--|
| 1 | Call FileHandler.ratingsFileExists() | None | my_ratings.txt is created with only the header included. | my_ratings.txt is created with only the header included. | Make sure there is no my_ratings.txt file in the milestone2/data directory |
| 2 | Initialize User object | Reviews and moviesInReviews list | User object with empty reviews and reviewedMovies instance variables. | User object with empty reviews and reviewedMovies instance variables | |

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|---|--|--|--|--|--|
| 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 | Prints the five movies with the highest avg_rating * num_rating: “Avengers: Endgame”, “The Dark Knight”, “Avengers Infinity War”, “Inception” and “Interstellar” . | Prints “Avengers: Endgame”, “The Dark Knight”, “Avengers Infinity War”, “Inception” and “Interstellar”. | |

Post condition(s) for Test:

my_ratings.txt contains no ratings and is formatted correctly. No reviewed movies are stored in the reviewedMovies arraylist in User. Recommendations are printed to console.