**The Reel World Testing Plan**

## All Unit Tests:

### MovieManager

* testCanBeCreated
* testCanGetAllMovies
* testCanGetAllMoviesByKeyword
* testCanGetAllMoviesByRating
* testCanGetAllGenres
* testCanGetAllActors
* testCanGetMatchedGenres
* testCanGetSingleMovie
* testCanAddMovie

### UserManager

* testCanBeCreated
* testCanLogin
* testCanLoginFail
* testCanSignup
* testCanCheckUsername
* testCanCheckInvalidUsername

### RequestManager

* testCanBeCreated
* testCanSaveRequest
* testCanGetRequests
* testCanGetRequestById
* testCanUpdateRequest
* testCanDeleteRequest

### CommentManager

* testCanBeCreated
* testCanGetCommentsByMovie
* testCanAddComment

## Integration Tests:

Tests the integration between the User Interface and the code to access the database.

Tests if the UI accurately displays the following, based on the database query results in the code.

“Grey Box” - Done by Tester (Juliette)

### Test Cases

1. The same movies appear in the UI on the Home page as the results for querying the database for all movies
2. The “Amadeus” movie page UI displays the same information as querying the database for the actors and description for “Amadeus”
3. The “Inception” movie page UI displays the same usernames and comments as querying the database for the comments on “Inception”

## System Tests:

Tests the functionality of the system based on our first and second iteration requirements.

“Black Box” - Done by Customer (Laura)

### Test Cases

1. The repository can be accessed through an online interface
2. Movie images, names, genres, and ratings are viewable on the Home page
3. Clicking on the movie “Cleopatra” brings up a new page, which has a description and actors
4. The sort button can be used to sort movies alphabetically by title
5. The sort button can be used to sort movies by rating
6. The filter button can be used to see movies only of the genres “Adventure” and “Thriller”
7. It is possible to create an account and log in
8. A logged in user can submit a movie request through the movie request form
9. The search bar can be used to search the movies by titles containing “man”
10. A logged in user can leave a comment on a movie

## White Box Tests:

Tests that error handling is being done correctly, and that no malicious user input is possible.

Done by Developers (Linh/Jack/Alex)

### Test Cases

1. The program doesn’t crash if getSingleMovie is passed a movie that doesn’t exist
2. The program doesn’t crash if getRequestById is passed a request id that doesn’t exist
3. The program doesn’t crash if updateRequest is passed a request that doesn’t exist
4. Users cannot input malicious code into the movie request form (injections)