

**Title Page**

Individual Project: **Test Plan**

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**Table of Contents**

* [Title Page](#TitlePage)
* [Table of Contents](#TableOfContents)
* [Test Cases + Test Results](#TestCases)
* [Recommendation for system improvement](#Recommendation)

Test Cases

**Movie Management (FRD-1)**

1. **Add Movie**
   * **ID:** TC-[[1]](#footnote-1)MOV[[2]](#footnote-2)-01
   * **Functional Requirement ID:** FRD-1
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Movie details including title, release date, description, poster image URL, trailer URL, runtime, and average rating.
   * **Expected Result:** Movie added successfully.
2. **Edit Movie**
   * **ID:** TC-MOV-02
   * **Functional Requirement ID:** FRD-1
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Modified movie details.
   * **Expected Result:** Movie edited successfully.
3. **Delete Movie**
   * **ID:** TC-MOV-03
   * **Functional Requirement ID:** FRD[[3]](#footnote-3)-1
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Movie to be deleted.
   * **Expected Result:** Movie deleted successfully.

**User Management (FRD-2)**

1. **User Registration**
   * **ID:** TC-USER-01
   * **Functional Requirement ID:** FRD-2
   * **Pre-condition:** User attempts to register.
   * **Test Data:** User registration details.
   * **Expected Result:** User registered successfully.
2. **User Login**
   * **ID:** TC-USER-02
   * **Functional Requirement ID:** FRD-2
   * **Pre-condition:** User attempts to log in.
   * **Test Data:** User login credentials.
   * **Expected Result:** User logged in successfully.
3. **Update User Profile**
   * **ID:** TC-USER-03
   * **Functional Requirement ID:** FRD-2
   * **Pre-condition:** User is logged in.
   * **Test Data:** Modified user profile information.
   * **Expected Result:** User profile updated successfully.

**Genre, Actor, Director Management (FRD-3)**

1. **Add Genre**
   * **ID:** TC-GENRE-01
   * **Functional Requirement ID:** FRD-3
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Genre details including name and description.
   * **Expected Result:** Genre added successfully.
2. **Edit Genre**
   * **ID:** TC-GENRE-02
   * **Functional Requirement ID:** FRD-3
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Modified genre details.
   * **Expected Result:** Genre edited successfully.
3. **Delete Genre**
   * **ID:** TC-GENRE-03
   * **Functional Requirement ID:** FRD-3
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Genre to be deleted.
   * **Expected Result:** Genre deleted successfully.
4. **Add Actor**
   * **ID:** TC-ACTOR-01
   * **Functional Requirement ID:** FRD-3
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Actor details including name, bio, and image.
   * **Expected Result:** Actor added successfully.
5. **Edit Actor**
   * **ID:** TC-ACTOR-02
   * **Functional Requirement ID:** FRD-3
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Modified actor details.
   * **Expected Result:** Actor edited successfully.
6. **Delete Actor**
   * **ID:** TC-ACTOR-03
   * **Functional Requirement ID:** FRD-3
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Actor to be deleted.
   * **Expected Result:** Actor deleted successfully.
7. **Add Director**
   * **ID:** TC-DIRECTOR-01
   * **Functional Requirement ID:** FRD-3
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Director details including name, bio, and image.
   * **Expected Result:** Director added successfully.
8. **Edit Director**
   * **ID:** TC-DIRECTOR-02
   * **Functional Requirement ID:** FRD-3
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Modified director details.
   * **Expected Result:** Director edited successfully.
9. **Delete Director**
   * **ID:** TC-DIRECTOR-03
   * **Functional Requirement ID:** FRD-3
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** Director to be deleted.
   * **Expected Result:** Director deleted successfully.

**User Authentication (FRD-4)**

1. **User Authentication**
   * **ID:** TC-AUTH-01
   * **Functional Requirement ID:** FRD-4
   * **Pre-condition:** User attempts to log in.
   * **Test Data:** User login credentials.
   * **Expected Result:** User authenticated successfully.

**Interpretation Management (FRD-5)**

1. **Submit Interpretation**
   * **ID:** TC-INTERP-01
   * **Functional Requirement ID:** FRD-5
   * **Pre-condition:** User is logged in.
   * **Test Data:** Interpretation content including text and associated movie.
   * **Expected Result:** Interpretation submitted successfully.

**Review Management (FRD-6)**

1. **Submit Review**
   * **ID:** TC-REVIEW-01
   * **Functional Requirement ID:** FRD-6
   * **Pre-condition:** User is logged in.
   * **Test Data:** Review content including rating, text, and associated movie.
   * **Expected Result:** Review submitted successfully.

**Recommendation System (FRD-7)**

1. **View Recommendations**
   * **ID:** TC-RECOMMEND-01
   * **Functional Requirement ID:** FRD-7
   * **Pre-condition:** User is logged in.
   * **Test Data:** User preferences and viewing history.
   * **Expected Result:** Personalized movie recommendations displayed accurately.

**Statistics and Analysis (FRD-8)**

1. **View Analytics**
   * **ID:** TC-ANALYTICS-01
   * **Functional Requirement ID:** FRD-8
   * **Pre-condition:** Administrator is logged in.
   * **Test Data:** System usage data.
   * **Expected Result:** Accurate statistics and analysis displayed.

**Web App Specific Test Cases:**

**Movie Browsing and Searching (FRW[[4]](#footnote-4)-1)**

1. **Browse Movies**
   * **ID:** TC-WEB-BROWSE-01
   * **Functional Requirement ID:** FRW-1
   * **Pre-condition:** User is logged in.
   * **Test Data:** None.
   * **Expected Result:** User can view a list of available movies.
2. **Search Movies**
   * **ID:** TC-WEB-SEARCH-01
   * **Functional Requirement ID:** FRW-1
   * **Pre-condition:** User is logged in.
   * **Test Data:** Search criteria (e.g., movie title).
   * **Expected Result:** User can search for specific movies and relevant results are displayed.

**Profile Management (FRW-3)**

1. **Update Profile**
   * **ID:** TC-WEB-PROFILE-01
   * **Functional Requirement ID:** FRW-3
   * **Pre-condition:** User is logged in.
   * **Test Data:** Modified user profile information.
   * **Expected Result:** User can update their profile successfully.

**Interactivity and Engagement (FRW-4)**

1. **Rate Movie**
   * **ID:** TC-WEB-RATE-01
   * **Functional Requirement ID:** FRW-4
   * **Pre-condition:** User is logged in.
   * **Test Data:** Movie to be rated and rating value.
   * **Expected Result:** User can rate a movie, and the rating is recorded accurately.
2. **Submit Interpretation**
   * **ID:** TC-WEB-INTERP-01
   * **Functional Requirement ID:** FRW-4
   * **Pre-condition:** User is logged in.
   * **Test Data:** Interpretation content including text and associated movie.
   * **Expected Result:** User can submit an interpretation successfully.
3. **Write Review**
   * **ID:** TC-WEB-REVIEW-01
   * **Functional Requirement ID:** FRW-4
   * **Pre-condition:** User is logged in.
   * **Test Data:** Review content including rating, text, and associated movie.
   * **Expected Result:** User can write a review for a movie, and the review is saved accurately.

**Recommendations and Personalization (FRW-5)**

1. **View Personalized Recommendations**
   * **ID:** TC-WEB-RECOMMEND-01
   * **Functional Requirement ID:** FRW-5
   * **Pre-condition:** User is logged in.
   * **Test Data:** User preferences and viewing history.
   * **Expected Result:** User receives personalized movie recommendations based on their preferences.

**Social Integration (FRW-7)**

1. **Share Movie Recommendation**
   * **ID:** TC-WEB-SHARE-01
   * **Functional Requirement ID:** FRW-7
   * **Pre-condition:** User is logged in.
   * **Test Data:** Movie to be shared.
   * **Expected Result:** User can share movie recommendations on social media platforms successfully.

**Recommendation for system improvement:**

After conducting thorough testing based on the defined functional requirements, it is recommended to focus on the following areas to enhance the system's usability and reliability:

* Enhance error handling and validation mechanisms.
* Optimize system performance, especially during peak usage times.
* Implement additional security measures to protect user data and prevent unauthorized access.
* Improve scalability to accommodate future growth in users and data.
* Enhance user interface for better user experience across devices.

This test plan serves as a comprehensive guide to ensure the functionality and performance of the Individual Project's system.

1. Test Case [↑](#footnote-ref-1)
2. Movie [↑](#footnote-ref-2)
3. Functional Requirement Desktop App [↑](#footnote-ref-3)
4. Functional Requirement Web [↑](#footnote-ref-4)