Title: UI Requirement - Movie Management Web Application

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**1. Introduction**

This test plan defines the testing strategy, scope, quality objectives, and methodology for testing the implementation of the web-based UI for managing a list of movies. The application allows users to add, display, search, and sort movies using JavaScript, HTML, and CSS.

**1.1 Scope**

**1.1.1 In Scope**

* Developing a Movie class with the properties: Movie ID, Title, Year, and Rating.
* Creating an array of movie objects and displaying them on a web interface.
* Implementing functionality for adding, searching, sorting, and refreshing the movie list.
* Styling the UI using CSS for improved user experience.

**1.1.2 Out of Scope**

* Performance testing.
* Integration with external APIs or databases.

**1.2 Quality Objective**

* Ensure all implemented UI features meet specified requirements.
* Validate that the movie list operations (Add, Search, Sort, Refresh) work as expected.
* Ensure a consistent user experience across browsers and devices.
* Detect and resolve any UI or JavaScript bugs before submission.

**1.3 Roles and Responsibilities**

* **Developer**: Implement the UI layout and JavaScript functionality.
* **Tester**: Execute test cases, document results, and report defects.
* **Reviewer**: Verify implementation, review test results, and validate the final product.

**2. Test Methodology**

**2.1 Test Levels**

* **U** **Unit Testing:** Test individual JavaScript functions (adding, searching, sorting).
* **Integration Testing:** Ensure correct interaction between JavaScript, HTML, and CSS components.
* **UI Testing:** Validate that the UI elements (inputs, buttons, list view) display and behave as expected.

**2.2 Suspension Criteria and Resumption Requirements**

* Testing will be suspended if critical issues (e.g., app crashes, UI not rendering) block further testing.
* Testing will resume once issues are fixed.

**2. Test Completeness**

* All test cases have been executed and passed.
* All critical bugs have been fixed.
* The application meets the UI and functionality requirements.

**3. Test Cases**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Steps** | **Expected Result** | **Status** |
| TC01 | Add Movie | 1. Input Movie ID, Title, Year, and Rating. 2. Click Add Movie button. | A movie object is created and added to the array. | Pass |
| TC02 | Display Movie List | 1. Add at least one movie. 2. Ensure the movie list displays all movies. | The movie list should display all added movies. | Pass |
| TC03 | Refresh Button | 1. Add multiple movies. 2. Click the Refresh button. | The movie list should update with the latest movies. | Pass |
| TC04 | Search Movie by ID | 1. Input a movie ID. 2. Click Search. | The correct movie details should display or “0 result” if not found. | Pass |
| TC05 | Search Movie by Title | 1. Input a search term. 2. Click Search. | All movies with matching titles should be displayed. | Pass |
| TC06 | |  | | --- | |  |  |  | | --- | | Sort Movies A-Z | | 1. Add multiple movies. 2. Click Sort A-Z. | The movies should be displayed in alphabetical order of the title. | Pass |
| TC07 | Sort Movies Z-A | 1. Add multiple movies. 2. Click Sort Z-A. | The movies should be displayed in reverse alphabetical order of the title. | Pass |
| TC08 | |  | | --- | |  |  |  | | --- | | Sort Movies by Rating | | 1. Add movies with varying ratings. 2. Click Best Movies. | The movies should be sorted by Rating (high to low). | Pass |

**4. Resource & Environment Needs**

**4.1 Testing Tools**

* JavaScript runtime (Node.js / Browser Console)
* Code Editor (VS Code, Sublime Text, etc.)
* GitHub for version control

**4.2 Test Environment**

* Windows
* Node.js installed for testing in a non-browser environment
* Developer tools for debugging

**5. Terms/Acronyms**

|  |  |
| --- | --- |
| **TERM/ACRONYM** | **DEFINITION** |
| AUT | Application Under Test |
| ID | Identifier |
| TC | Test Case |

This document will be updated based on test execution results and findings.