

Comprehensive Testing Plan for AMDb App (Version 5.3)

1. Introduction

- **Objective:** Ensure that AMDb app version 5.3 functions correctly across all supported desktop platforms.
- **Scope:** Functional, performance, security, usability, and cross-platform compatibility testing.

2. Test Items

- **Standalone Executables:** Windows, macOS, and Linux installers.
- **Application Features:**
 - Movie search functionality
 - Movie details page
 - User reviews and ratings
 - Watchlist management
 - Admin panel (for adding/editing movies)
 - API key handling and encryption
 - Configurations via `config.ini`

3. Features to be Tested

- Installation and setup on each OS
- Search capabilities
- Filtering and sorting movies
- UI elements and their responsiveness
- API interactions and data integrity
- Configuration file handling and encryption verification

4. Test Types

- **Functional Testing:** Verify all features work as intended.
- **Performance Testing:** Ensure the app performs well under various conditions.
- **Security Testing:** Check for vulnerabilities, especially related to the encrypted API key.
- **Usability Testing:** Ensure the app is user-friendly.
- **Cross-Platform Testing:** Verify compatibility on different desktop OS.

5. Test Approach

- **Manual Testing:** For detailed and specific test cases.
- **Automated Testing:** For repetitive and regression tests.

6. Test Environment

- **Operating Systems:** Windows 10, macOS, Linux (Ubuntu)

7. Deliverables

- Test Plan Document
- Test Cases
- Bug Reports
- Test Summary Report

8. Schedule

- Draft Test Plan: Day 1
- Develop Test Cases: Day 2-3
- Setup Test Environments: Day 2-3
- Execute Tests: Day 4-7
- Report Findings: Day 8

9. Resources

- **Tools:** Selenium, JIRA, Postman
- **Team Members:** QA Lead, QA Engineers, Developers

10. Risks and Contingencies

- **Risk:** Delays in setting up test environments.
- **Mitigation:** Have backup environments and tools ready.

11. Approval

- **Sign-off by:** QA Lead, Project Manager

Detailed Test Cases

1. Installation Testing

- **Windows:** Verify the installer runs, installs the app, creates shortcuts, and the app launches successfully.
- **macOS:** Verify the .dmg file installs the app, the app is placed in the Applications folder, and launches correctly.
- **Linux:** Verify the installer script runs, installs the app, and the app launches correctly.

2. Functional Testing

- **Movie Search:** Verify search functionality with various search terms.
- **Movie Details:** Verify movie details are displayed correctly, including metadata and images.
- **Reviews and Ratings:** Verify adding, editing, and deleting user reviews and ratings.
- **Watchlist Management:** Verify adding and removing movies from the watchlist.
- **Admin Panel:** Verify adding, editing, and deleting movies via the admin panel.

3. Configuration Testing

- **config.ini Handling:** Verify that the application reads from and writes to the `config.ini` file correctly.
- **API Key Encryption:** Ensure the API key is encrypted in the `config.ini` file and the app can decrypt and use it.

4. Performance Testing

- Verify app performance with large movie libraries.
- Test the response time of search and filtering functionalities.

5. Security Testing

- Ensure the encrypted API key in the `config.ini` file is secure and cannot be easily decrypted by unauthorized users.

6. Usability Testing

- Evaluate the app's user interface for ease of use.
- Ensure all UI elements are intuitive and accessible.

7. Cross-Platform Compatibility

- Verify that the application performs consistently across Windows, macOS, and Linux.