

# TEST PLAN FOR WATCHLIST+

## *ChangeLog*

Version	Change Date	By	Description
1	17/02/2023	Tyler Clark	Filled in initial info
2	18/03/2023	Tyler Clark	Changed some planned tests and add test environment for integration tests
3	19/03/2023	Tyler Clark	Wrote acceptance tests for each feature

## 1 Introduction

### 1.1 Scope

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#### In Scope:

- Watchlist
- View & Browse
- Reviews & Recommendations
- Account Management

#### Out of Scope:

- More detailed title view information
- More detailed actor information
- More detailed director & producer information
- Updating DB with new titles

## 1.2 Roles and Responsibilities

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Name	Net ID	GitHub username	Role
Tyler Clark	clarkt35	Br0k3N-ET3rNaL	All

# 2 Test Methodology

## 2.1 Test Levels

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- **Account Management:**
  - Unit Tests 1-5: Backend user data validation (user.service.test.js)
  - Unit Tests 6-13: Frontend user data validation (log-in.test.tsx & sign-up.test.tsx)
  - Integration Test 1: Test creating a new user
  - Integration Test 2: Test verifying an existing user
  - Acceptance Criteria: User can create an account and sign-in
  - Acceptance Test:
    - Steps:
      - Open the application
      - Click sign-up in the top right
      - Enter username below "Username:"
      - Enter email below "Email:"
      - Enter password below "Password:"
      - Enter the same password again below "Repeat Password:"
      - Click button labeled "Sign Up"
      - Automatically re-directed to login screen
      - Enter email used to sign-up below "Email:"
      - Enter password used to sign-up below "Password:"
    - Expected Result: User has an account and is now logged-in
- **View & Browse:**
  - Unit Tests 1 & 2: Backend; check valid sorting columns (title.repository.test.js)
  - Unit Test 3: Browse view; test sorting functionality (browse-view.test.tsx)
  - Unit Test 4: Browse view; test page changing functionality (browse-view.test.tsx)
  - Unit Test 5: Browse view; test search functionality (browse-view.test.tsx)
  - Unit Test 6: Combination of previous 3 unit tests (browse-view.test.tsx)
  - Unit Test 7: Title list element; test display of data (title-list-element.test.tsx)
  - Unit Test 8: Title list element; test click functionality (title-list-element.test.tsx)
  - Unit Test 9: Title view; test display of data (title-view.test.tsx)
  - Unit Test 10: Title view; test closing of window (title-view.test.tsx)
  - Integration Test 3: Test getting a page of titles

- Acceptance Criteria: User can scroll through the browse view, switch pages, search for specific titles, and change sorting options
- View Acceptance Test:
  - Steps:
    - Open the application
    - Click on the title of a displayed movie/show
  - Expected Result: User can see a description of the selected title
- Search Acceptance Test:
  - Steps:
    - Open the application
    - Enter desired search in textbox at the top of the screen
  - Expected Result: User can now view titles that match the entered search
- Sort Acceptance Test:
  - Steps:
    - Open the application
    - Select desired sorting by clicking on the dropdown below “Sort By” and clicking the desired sorting option
  - Expected Result: User can now view titles sorted by the desired sorting option
- Page Acceptance Test:
  - Steps:
    - Open the application
    - Scroll to the bottom of the page
    - Click the button labeled “>”
  - Expected Result: User can now view the next page of titles
- **Reviews & Recommendations:**
  - Unit Test 1: View reviews; test display of single review
  - Unit Test 2: View reviews; test display of list of reviews
  - Unit Test 3: Leave review; test creation of new review
  - Unit Test 4: View review; test display of no reviews
  - Unit Test 5: Test close review view
  - Unit Test 6: Test close create review view
  - Unit Test 7: View recommendations; test display of single recommendations
  - Unit Test 8: View recommendations; test display of list of recommendations
  - Unit Test 9: Recommend; test creation of recommendation
  - Unit Test 10: Recommend; test creation of recommendation where title is not unique
  - Unit Test 11: Test close recommendations view
  - Unit Test 12: Test close create recommendation view
  - Integration Test 4: Test creating reviews
  - Integration Test 5: Test getting a page of reviews
  - Integration Test 6: Test creating recommendations
  - Integration Test 7: Test getting a page of recommendations
  - Integration Tests 8 & 9: Test checking title exists when creating a recommendation

- Acceptance Criteria: User can leave reviews for titles they've seen, view other users' reviews, leave recommendations for titles they've seen, and view other users' recommendations
- Create Review Acceptance Test:
  - Pre-conditions:
    - User is logged-in
    - User has selected a title
  - Steps:
    - Click the button labeled "Leave a Review"
    - Enter review in textbox
    - Click button labeled "Submit"
  - Expected Result: User has left a review for the selected title
- View Reviews Acceptance Test:
  - Pre-conditions:
    - User has selected a title
  - Steps:
    - Click the button labeled "View Reviews"
  - Expected Result: If there are any reviews for the selected title, they will be visible to the user, otherwise the user will see "No reviews yet"
- Create Recommendation Acceptance Test:
  - Pre-conditions:
    - User is logged-in
    - User has selected a title
  - Steps:
    - Click the button labeled "Recommend Another Title"
    - Enter the title of the movie/show to recommend based on the selected title
    - Click the button labeled "Submit"
    - If there are multiple movies/shows with the entered title, then
      - Enter movie or show below "Movie/Show", depending on the type of the title
      - Enter the release year of the movie/show below "Release Year"
      - Click the button labeled "Submit"
  - Expected Result: The user has left a recommendation for the entered title, based on the selected title
- View Recommendations Acceptance Test:
  - Pre-conditions:
    - User has selected a title
  - Steps:
    - Click the button labeled "View Recommendations"
  - Expected Result: If there are any recommendations for the selected title, they will be visible to the user, otherwise the user will see "No recommendations yet"
- **Watchlist:**
  - Unit Test 1: Test adding title to watchlist

- Unit Test 2: Test removing title from watchlist
- Unit Test 3: Test switching between watchlist views
- Unit Test 4: Test display watchlist element
- Unit Test 5: Test watchlist sorting functionality
- Unit Test 6: Test watchlist links to display title and edit
- Unit Test 7: Test basic watchlist display
- Unit Test 8: Test close edit watchlist view
- Unit Test 9-10: Test editing watchlist items
- Integration Test 10: Test updating a watchlist entry
- Integration Test 11: Test deleting a watchlist entry
- Integration Test 12: Test adding title to watchlist
- Integration Test 13: Test getting a page of watchlist entries
- Acceptance Criteria: User can view their watchlist, add titles to it, remove titles from it, switch between watchlist views, edit items in their watchlist, sort their watchlist, rate titles on their watchlist
- Add to Watchlist Acceptance Test:
  - Pre-conditions:
    - User is logged-in
  - Steps:
    - Click the button labeled “add” next to the title to add
  - Expected Result: The selected title has been added to the user’s watchlist
- View Watchlist Acceptance Test:
  - Pre-conditions:
    - User is logged-in
  - Steps:
    - Click “Watchlist” in the top right
  - Expected Result: User can view their watchlist
- Sort Watchlist Acceptance Test:
  - Pre-conditions:
    - User is logged in
    - User is viewing their watchlist
  - Steps:
    - Select desired sorting by clicking on the dropdown below “Sort By” and clicking the desired sorting option
  - Expected Result: User can now view their watchlist sorted by the desired sorting option
- Watchlist Page Acceptance Test:
  - Pre-conditions:
    - User is logged in
    - User is viewing their watchlist
  - Steps:
    - Scroll to the bottom of the page
    - Click the button labeled “>”
  - Expected Result: User can now view the next page of their watchlist
- Filter Watchlist Acceptance Test:
  - Pre-conditions:

- User is logged in
- User is viewing their watchlist
- Steps:
  - Select desired status filter by clicking the dropdown below “Status” and clicking the desired status filter
- Expected Result: User can now view their watchlist filtered based on the selected status filter
- Regression testing covering all previously mentioned unit and integration tests to be done automatically on commit using GitHub Actions

## 2.2 Test Completeness

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- 100% code coverage
- All Manual & Automated Test cases executed
- No flaky tests
- All open bugs are fixed or will be fixed in next release

# 3 Resource & Environment Needs

## 3.1 Testing Tools

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- **Bug & Requirement Tracking:** GitHub
- **Automation:** GitHub Actions

## 3.2 Test Environment

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- Windows 8 and above
- GitHub Actions
- Jest + ts-jest + testing-library for Frontend
- Jest for Backend
- Jest + supertest for integration tests

# 4 Terms/Acronyms

Make a mention of any terms or acronyms used in the project

TERM/ACRONYM	DEFINITION
API	Application Program Interface
AUT	Application Under Test