# Software Requirements Specification

# Version 1.0

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Letterboxed: Social Networking Web Platform for Movies

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## Introduction

### Purpose

### The purpose of the Letterboxd platform is to serve as a comprehensive social networking hub for film enthusiasts, enabling them to discover, engage with, and share their passion for cinema. The platform aims to foster a vibrant community by providing tools for exploration, interaction, and expression through films.

### Scope of Project

Letterboxd is a web-based social networking platform tailored for film enthusiasts. The system allows users to:

**1. User Authentication:**

Sign-up, sign-in, and social media login.

**2. Search Functionality:**

Search for tasks (or your chosen subject) by title, genre, date, etc.

**3. Task/Item Addition:**

Users can add new tasks or items (like new movies) with details like description, images, and categories.

**4. Review and Rating System:**

Users can write reviews, rate tasks, and edit or delete their reviews. Remember, other users can review the tasks/items/movies you have created, just like you can rate the ones they have created.

**5. Watchlist/Task List:**

Users can create and manage lists of tasks to complete or review later.

**6. Social Features:**

Follow other users, view their activity, and comment on their reviews.

**7. Recommendations:**

Suggest similar tasks based on user preferences or genre.

**8. Curated Lists:**

Featured lists curated by the website or users highlighting specific themes or categories.

* 1. Definitions, Acronyms, and Abbreviations
* **Letterboxd**: The name of the platform.
* **API**: Application Programming Interface.
* **TMDb**: The Movie Database, an external API providing film data.
* **Watchlist**: A list created by a user to catalog films they intend to watch.
  1. References
* TMDb API Documentation: https://www.themoviedb.org/documentation/api
* W3C Web Accessibility Guidelines: <https://www.w3.org/WAI/>

1. Overall Description
   1. Platform Perspective

The platform will serve as a standalone web application, utilizing the TMDb API for accessing film data. It is intended to provide a seamless user experience for discovering, reviewing, and discussing films within a social networking context.

* 1. Product Features
  2. User profile management.
  3. Watchlist creation and management.
  4. Film reviews and ratings.
  5. Curated and personalized film recommendations.
  6. Social features, including following users and community interactions.
  7. Operating Environment
  8. The platform will be accessible via web browsers on desktop and mobile devices.
  9. Server-side components will run on a cloud infrastructure.

#### Assumptions and Dependencies

* Users have internet access and modern web browsers.

1. System Features
   1. User Profiles

* **Description**: Users can create and customize profiles to display their activity and preferences.
* **Functional Requirements**:
  1. Users can edit profile information (e.g., name, avatar).
  2. Profiles display watchlists, reviews, and ratings.
  3. Watchlists
* **Description**: Users can create and manage watchlists.
* **Functional Requirements**:
  1. Users can add or remove films from their watchlists.
  2. Watchlists can be shared with other users.
  3. Film Reviews and Ratings
* **Description**: Users can rate and review films they have watched.
* **Functional Requirements**:
  1. Users can assign ratings on a 1–5 star scale.
  2. Reviews can be liked and commented on by other users.
  3. Social Features
* **Description**: Enhance community engagement through social interactions.
* **Functional Requirements**:
  1. Users can follow others to view their activity.
  2. Activity feeds display updates from followed users.
  3. Recommendations and Discovery
* **Description**: Provide personalized recommendations and curated lists.
* **Functional Requirements**:
  1. Recommendations are generated based on user activity.
  2. Curated lists are updated regularly by the platform.

1. External Interface Requirements
   1. User Interfaces

* Clean, intuitive design with a focus on usability.
* Responsive layout for mobile, tablet, and desktop.
  1. Hardware Interfaces
* Nonspecific; the platform is web-based.
  1. Software Interfaces
* TMDb API for film data retrieval.
* Integration with cloud services for hosting and data storage.
  1. Communication Interfaces
* HTTPS for secure data transmission.

1. Non-Functional Requirements
   1. Performance Requirements

* Pages should load within 2 seconds under normal conditions.
* The platform must support concurrent usage by up to 10,000 users.
  1. Security Requirements
* Secure user authentication (e.g., OAuth 2.0).
* Data encryption for sensitive information.
  1. Usability Requirements
* Adhere to W3C accessibility standards.
* Provide intuitive navigation and search functionality.
  1. Reliability and Availability
* 99.9% uptime, with failover mechanisms in place.
  1. Scalability
* The system must handle growth in user base and data volume without significant performance degradation.

1. Other Requirements

* Legal compliance with data protection laws (e.g., GDPR).

1. Appendices

A. Glossary

* **Watchlist**: A user-generated list of films they intend to watch.
* **Curated List**: A platform-generated list based on specific themes or genres.

B. References

* TMDb API Documentation.
* W3C Accessibility Guidelines.