SRS DOCUMENTATION

Letterboxd

-Amfoss curriculum

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1.Introduction

1.1 Purpose

This is the system requirement specification (SRS) which aims to refine and ex- pand on the required capabilities of letterboxd. This SRS is intended for the developers of the letterboxd system as well as the clients who own the system. It will refine what is required of the system, what the main purpose of the system will be and what additional capabilities it will have.

1.2 Scope

Letterboxd is a social networking platform for film enthusiasts where users can discover, rate, and review films, as well as interact with a community of like-minded people. It allows users to create watchlists, log films they've watched, and write reviews. Additionally, it offers curated lists, film recommendations, and the ability to follow other users to see their activity.

This system will bring major change in the current movie streaming industry because of it's adaptability and functionality.Users can have a custom conversation within each movie which makes the watch an interacting one.The interface will provide a smooth,intuitive and user-friendly experience.In the current scenario there is a gap for such a website that can provide all these features and letterboxd aim to fill this gap and become the upcoming giant in the streaming industry.

Moreover, the website will also be able to suggest movies based on their preferences by assessing their previous activities.

2.Overview

2.1 Features

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.

2.2 System Requirement

Some high resolution movies require a faster connection and greater processing power for optimal streaming speeds. Here's what you need:

Newest version of Google Chrome, Firefox, or Safari
Operating system: Windows 7+, Mac OS X 10.7+, or Ubuntu 10+
Internet connection with 1+ Mbps

It can help to close other tabs, browsers, and programs while streaming your video. It may also help to hardwire your internet connection, instead of using a wireless network connection.

The table below shows the approximate speeds recommended for playing each video format.

Video Resolution	Recommended sustained speed
4K UHD	20 Mbps
HD 1080p	5 Mbps
HD 720p	2.5 Mbps
SD 480p	1.1 Mbps
SD 360p	0.7 Mbps

2.3 User characteristics

There will be 3 ways to access the website Sign-up, sign-in, and social media login. Additionally , there will be a visitor user interface . A visitor will be limited to overview the website and could not perform major task's like searching,streaming,review.

2.4 Development Cycle

Frontend

The front end of a website is the part that users interact with directly. It involves designing and building the user interface (UI), which includes everything from the layout and design to the buttons and forms. The front-end of letterboxd will be based on **Next.js** .

Backend

The backend is a server-side codebase that handles and manages all your data behind the scenes. The backend of letterboxd will be based on **Flask** and **REST APIs**.

Platforms

- **System used** : Linux x86_64
- **Code editors** : VS code
- **Database** : MongoDB

2.5 Constraints

Bandwidth

Slower internet speeds can negatively impact the viewing experience.

Licensing

It's important to take care of the legal aspects of video creation and distribution. This can be done by signing a licensing agreement or obtaining exclusive rights for some films.

Security

Cyber-attacks can exploit the functions of the website,Also it can affect the privacy of the user.

Streaming

If the streaming server goes down at a particular time it can affect the overall flow of the website.