Software Requirements Specification
for
My Movies Website

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01 May 2021

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Revision History

Revision	Date	Author(s)	Description
1.0	01.05.2021	As in Cover Page	SRS for Version 1.0

Chapter 1

Introduction

1.1 Purpose

My Movies is a website which shows information about movies namely Movie name, poster, cast, genre etc. A user can fetch a lot of information about the movie he/she want to look for. Also, user can maintain a personal collection of favourite movies and rate/review movies. This SRS covers all aspects of the complete software.

1.2 Intended Audience and Reading Suggestions

This SRS is intended for end-users, developers, project managers and project evaluators. End-Users and project managers can have an overview of the requirements from chapter 1 and chapter 2. Developers may refer section 2.5, 2.7 and 2.8 for design guidelines, chapter 3 for complete functional requirements in detail and chapter 4 for non functional requirements. There are no specific document conventions in this SRS. An important point to note is that all wireframes/User Interfaces and interface conventions will be part of design documents and hence are excluded from this SRS.

1.3 Product Scope

Movies are quite famous among the public and there are many passionate followers who not only watch movies but also want to know a lot more about them. Just like a playlist of songs, people have a personal list of favourite movies. Also, ratings and reviews of a movie by public are helpful for others to choose to watch a movie or not. All these features are incorporated in My Movies so that all the users who are passionate about movies can do all their activities on a single platform. It will also be helpful for general public to make choices for watching movies.

Chapter 2

Overall Description

2.1 Product Perspective

My Movies is a stand-alone website. Version 1.0 is a primitive version of an alternative/clone of the famous website IMDB.

2.2 Product Functions

The major functions offered by My Movies are as follows: A user can

- Sign up/Sign in/Sign out
- See details of movies irrespective of whether user is logged in or not
- Search movies
- Mark a movie as favourite
- Rate and Review a movie

2.3 User Classes and Characteristics

The major target users of My Movies website are mainly of two classes. People belonging to Class 1 are passionate about movies. They will be the one who will extensively use this website to fetch details of movies. They are also anticipated to be more active in rating and reviewing movies. People belonging to Class 2 are those who search about movies before watching them to make an informed choice. It is anticipated that they will see the details, ratings and reviews of the movies. People from both classes are expected to use the feature of marking a movie as favourite equally.

2.4 Operating Environment

My Movies website requires a web-browser and an internet connection. All it's services are online. In future versions, offline support for some features may be introduced.

2.5 Design and Implementation Constraints

The Tech. stack to be used for developing this software includes

- Front End: HTML, CSS, JavaScript

- Back End: NodeJS with Express

- Database: MongoDB

2.6 User Documentation

As part of user documentation, it is planned to deliver a demonstration video with the software. If there are some different instructions from decision making body then a user manual will be delivered in place of demonstration video.

2.7 Assumptions and Dependencies

My Movies doesn't store details of all movies in it's own database. Rather, it fetches data of movies through various APIs and hence this website is dependent on the data supplied by API. However, details of users along with their favourite list, ratings, reviews are stored in the database of My Movies. Secondly, since the website is developed on NodeJS, hence there are dependencies over various node packages and are managed by NPM (Node Package Manager).

2.8 Software Interfaces

My Movies version 1.0 will be connected to a MongoDB cloud database to perform CRUD operations. User's details, favourites list, ratings and reviews are all stored in database. Secondly, My Movies version 1.0 will fetch data of movies through various APIs.

Chapter 3

System Features

3.1   Sign up/Sign in/Sign out

- User can sign up on My Movies using his/her Email and other details like Password and Name

- User can also sign up using Google

- If a user is already signed up in My Movies and the user is signed out then user can sign in to My Movies using the credentials used while signing up

- If the user is signed in then user can sign out

3.2   See details of movies

- User can see details of movies which include all the attributes of a movie fetched from API.

- The details of movies will be Read-only

- User can do so irrespective of whether user is signed in or not

3.3   Search movies

- User can search a string irrespective of whether they are logged in or not

- That string will be searched as a sub-string in various attributes of all the movies (e.g. - Movie title, cast etc)

- The attribute of movies which will be used for searching can be decided in Designing phase of this project

3.4   Mark a movie as favourite

- If a registered user is signed in to My Movies then he/she can mark any movie as his/her favourite

- The above action can also be reverted back

- If a registered user is signed in to My Movies then he/she can see his/her list of favourite movies

3.5 Rate and Review a movie

- If a registered user is signed in to My Movies then he/she can rate or review (or both) any movie

- User can change his/her rating for a movie if he/she has already rated the movie. For one user and one movie there will be only one rating

- Once user has posted a review for a movie then that review can't be changed. However, user can post multiple reviews for the same movie. (Updating a review may come in future versions)

Chapter 4

Other Nonfunctional Requirements

4.1 Performance Requirements

Since My Movies will be available globally to all the users, it must be scalable and fast so that multiple users can use it at the same time. Website must have an excellent User Interface for better usability for all classes of users.

4.2 Security Requirements

User's details must be protected and his/her credentials must not be compromised to prevent malicious reviews of any movie by a proxy user. Authentication process must be strong enough to support security.

Appendices

Appendix A

Glossary

SRS : Software Requirement Specifications
IMDB : A website whose clone's description is given in this SRS
CRUD : Short from for Create, Read, Update and Delete operations in database
API : Application Programming Interface (Used to fetch selective data from external source)