EZTechMovie Logo
Image of EZTechMovie Company Logo  
INT499: Information Technology Capstone Project

Instructor Kanto

# Software Requirement Specification (SRS)

Organizing the Team

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There is a streaming service company named EzTechMovie. This company provides movies that their customers can stream on various devices and platforms. The company proposes expanding its application, StreamList, shifting from individual creation to collaborative development. They plan on transforming their StreamList application into a monthly subscription service. This would give users access to insert a movie into their application and then search for the movie inserted across various platforms, allowing users to stream the movie directly through the app. Users will also have the availability to make a list of their “must-watch” movies that they may want to watch at a later time. The purpose of this document is to provide the software requirements for expanding the application for EzTechMovie. Additionally, it provides specifications on how to develop the app successfully and its objectives.

* 1. Product Scope

There are several benefits to the product EzTechMovie provides. Those benefits include streaming services to their users, users having the availability to customize what movies the users watch or would like to watch in the future by adding it to their “must-watch list,” users controlling when they would like to watch movies without a committed time, users having the capability to watch older and newer movies, users watching movies on all types of devices with an internet connection, and much more. The objectives of this product consist of providing on-demand access to content anytime and anywhere, encouraging users to share their experiences with family, friends, and co-workers to gain more users and revenue for the product, reduce users needing to pay for cable or going to a movie theater to watch movies, provide excellent customer services with users having issues with the product, cost optimization for users that are budgeting, and more. The goals of the product involve increasing the number of users subscribed to this streaming service, updating the product once every three months and increase the product’s quality to ensure it is up-to-date and has fewer risks of malfunctions, and improving customer experiences through great customer service and easy to access and navigate streaming services.

* 1. Product Value

The audience will find value in this product. They will find value in this product because of its functions, convenience, and reasonable pricing. The functions this product will serve are streaming content on various devices and platforms, downloading content to watch offline, and many more. This product will provide convenience to users by allowing them to watch whatever movie they would like and whenever they want to watch that movie instead of waiting on a scheduled showing of the movie. Additionally, they would also have the capability to watch this movie anywhere with an online connection to their device. If they had downloaded the movie previously on an internet connection, then they would have been able to watch this movie anywhere they wanted, offline, too. This product will provide reasonable prices to customers, which can assist customers in staying within their budget and saving money from buying movie tickets or cable.

* 1. Intended audience

This product is intended to serve its customers. The customers will consist of people who like or want to watch movies. The product is intended to serve these customers the convenience and comfortableness of watching movies whenever and wherever they would like.

* 1. Intended use

The intended audience will use this product in multiple ways. They will use this product by inserting a movie’s title in the search bar. The movie title inserted will then search various platforms on which this movie is available. After searching various platforms, the users will have the option to stream that movie directly through the app. Users have the capability of adding movies to a list known as their “must watch movies” list. Additionally, users will be able to download movies to watch without the need for an internet connection.

* 1. General Description

There are multiple functions the software would perform and many features to be included. The functions this software would perform include streaming content on various devices and platforms, downloading content to watch offline, and many more. The features included in the software are customization options such as making a list of movies, original content of the movies, parental control for people with children, availability of playing movies with closed captions, and movies being available in multiple languages.

## Functional Requirements

There are functional requirements for this product. The requirements include design requirements, operating system requirements, and constraints of the product. The design requirements include a user-friendly design, an extensive and well-structured content archive, effective search functionalities, amazing streaming quality, parental controls, adaptable membership subscriptions, and the option to download movies for offline streaming. The graphic requirements include a graphics card, specifically an AMD Radeon GPU, to ensure the movie stream runs smoothly. The operating system requirements consist of compatibility and storage. This operating system will be compatible with various devices such as mobile phones, tablets, laptops, computers, and televisions. The devices must have at least 8 GB of storage available. The constraints of the product include streaming limitations on certain devices, such as needing an internet connection to stream a movie (if the movie was not downloaded beforehand), limiting exposure to new audiences such as prioritizing newer content over older content, and bandwidth limitations considering that streaming high-quality movies may require a significant amount of internet bandwidth.

## External Interface Requirements

3.1 User Interface Requirements

There is logic behind the interactions between the users and the software. The logic consists of screen layouts, style guides, content consumption, and user, hardware, and software interfaces. The screen layouts and style guides are interactable with users by providing icons, buttons, and color schemes. The content-consuming logic refers to users binge-watching movies. The users interact with user interfaces by navigating through the application, receiving user assistance (customer service), and the presentation of the content. The users interact with hardware interfaces through the supported device types. The users interact with software interfaces from the software components, such as movie databases, libraries, and operating systems.

3.2 Hardware Interface Requirements

The supported devices the software is intended to run on include mobile phones, tablets, laptops, computers, and televisions. The network requirements for this software to run are a secure internet connection, a router with a high-speed internet connection, or a modem. The communication protocols to be used are WiFi, the Internet Protocol, Hypertext Transfer Protocol, or Real-time Messaging Protocol.

3.3 Software Interface Requirements

There are connections between the product and other software components. The connections include libraries, video hosting, content delivery networks, encoding and transcoding, security measures such as parental control, user interface, recommendations based on viewing history, and subscription fees. The libraries and video hosting are similar to each other. The libraries hold the movies, whereas the video hosting server stores movie files, and a user can access that server over the internet. The content delivery network will assist in distributing movies to users. Encoding and transcoding will assist in converting the movies into a streamed format through an internet connection. The user interface “allows users to browse and search for content” (Vimond Media Solutions, 2023, para. 13). The subscription fees will be the amount a user will have to pay depending on which subscription plan they choose.

3.4 Communication Interface Requirements

My products will require the usage of communications programs. The communication programs will include emails, embedded forms, multimedia messaging service (MMS), and short message service (SMS). Users will have the option of receiving emails, MMS, or SMS. However, the embedded forms will not be optional for users. The embedded forms will collect data effectively from users interacting with the software to enhance user engagement. MMS will be utilized when the software wants to send out a message that may contain a video or image. SMS will be utilized when the software sends out a message without a video or image. SMS will most likely only be utilized when reminding a user of their subscription’s upcoming payment.

## Non-Functional Requirements

4.1 Security

There will be privacy and data protection regulations that will be adhered to. Users will have accounts with their own special login information, such as emails and passwords, which the company will have no access to. When users input their bank information, they will do so through their private account and not over the phone or the customer service messaging service. The company will never ask its users for any private information, including bank accounts, passwords, social security numbers, and many more.

4.2 Capacity

The current storage needs for this software are at least 8 GB. The future storage needs for this software is 14 TB on a blob storage.

4.3 Compatibility

The minimum hardware requirements for my software are hardware components such as computers, processors with integrated graphics, storage, and updated versions from operating systems.

4.4 Reliability

Users are expected to use this software daily for at least 3 hours a day. The critical failure time of the product would be under normal usage after 8 hours. That would be at least 4-5 movies, which would be a normal time for the product to fail after watching that many movies at once.

4.5 Scalability

The highest workload under software will still perform as expected, which would be over 7 hours.

4.6 Maintainability

Continuous integration should be used to deploy features and bug fixes quickly by merging code changes to update the app after tests have been running. This will be done every three months through their occasional checkups.

4.7 Usability

This software should be super easy for end-users to use. They simply have to insert a movie’s title and name, and the rest of the work is done for them. They will only have to select play on the movie after the search for the movie is done. If a user has any problems using the app, they can call customer service or chat with them through the app to find the best solution to fix the user’s problem.

4.8 Other

There are additional non-functional requirements, which include the app’s performance, combability, scalability, maintainability, and localization.

4.9 Definitions and acronyms

SMS: Short Message Service, used for sending messages with only words; videos or images are not allowed to be sent through this service.

MMS: Multimedia Messaging Service, used for sending messages with videos and images.

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## **References**

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