

(SRS) Document

3/28/2023

1. Introduction

1.1 Introduction

Our system is an online streaming platform that provides a wide range of TV shows, movies, and series to its subscribers. The system serves as a centralized platform for users to access a vast collection of media content.

1.2 Needs for our system

There are several needs that our system fulfills. First and foremost, it provides users with easy access to a diverse range of media content.

Secondly, our system provides users with a convenient way to consume media content.

The system is designed to be user-friendly, with a simple and intuitive interface that makes it easy for users to browse, search, and watch their favorite shows and movies.

This convenience factor is particularly important for people who lead busy lives and may not have the time to watch their favorite shows on traditional TV channels.

Overall, our system fulfills the needs of users who are looking for an easy and convenient way to access a diverse range of media content.

1.3 Briefly description about the system functions

User registration and authentication: Users can create an account, log in, and manage their personal information, subscription status, and viewing history.

Content management: The system manages a large database of media content, including movies, TV shows, series, and documentaries. Content can be organized by genre, language, release date, and other categories.

Search and discovery: Users can browse and search for content using keywords, titles, and actors.

Video playback: The system provides video playback functionality, allowing users to watch content in real-time, pause, rewind, fast-forward, and adjust audio and video settings.

Payment and billing: The system manages subscription plans, pricing, and payment processing for users. It may also provide free trials, discounts, and promotional offers. auction expenses, bid amount, bid increment, bid ID, item donor, item's original value, payment type, bidder name, and bidder email.

Customer support: The system provides customer support channels, such as email, chat, or phone, to assist users with technical issues, billing questions, and content-related inquiries.

Overall, the functions of an online streaming system are designed to provide a seamless, user-friendly, and engaging viewing experience for subscribers, while also managing a complex network of content, data, and services behind the scenes.

1.4 Business Context

An online streaming system is typically a core part of a larger business strategy, serving as a digital distribution platform for media content. The system can generate revenue through subscription fees, advertising, and other revenue models, and is designed to attract and retain users by providing a high-quality viewing experience and a wide selection of content.

2. User Requirements

2.1 Product Functions

Easy registration and login: Users should be able to create an account quickly and easily, without the need for complex forms or verification processes. Once registered, users should be able to log in quickly and securely.

Intuitive navigation and search: Users should be able to find the content they are looking for quickly and easily.

High-quality video playback: Users expect the system to provide high-quality video playback, with minimal buffering, stuttering, or other issues. The system should support a range of video formats and streaming protocols, and be optimized for different devices and connection speeds.

Personalized recommendations: Users may expect the system to provide personalized recommendations based on their viewing history, preferences, and behavior. The system should use advanced algorithms to suggest relevant content, and allow users to provide feedback and ratings to further refine recommendations.

Flexible subscription plans: Users should have access to a range of subscription plans, with different pricing tiers and features. The system should allow users to upgrade, downgrade, or cancel their subscription at any time, and provide transparent billing and payment options.

User support and feedback: Users should be able to access customer support channels, such as email, chat, or phone, to get help with technical issues, billing questions, or other concerns. The system should also provide a way for users to provide feedback and suggestions for improving the service.

Overall, the user requirements for an online streaming system are focused on providing a seamless and engaging viewing experience, with easy registration and login, intuitive navigation and search, high-quality video playback, personalized recommendations, flexible subscription plans, and reliable customer support.

3. Functional Requirements

1. Login: Description → Get into the platform.

Inputs → Registered-Email, Password.

Source → User, Admin

Pre-condition→ Must be registered.

Post-condition→ //

Output→Home page.

2. **Registration**: Description → Create an Email.

Inputs→ Email, Password.

Source→ User, Admin.

Pre-condition→ //

Post-condition→ //

Output→ //

3. **Search and discovery**: Description→ Allow users to search for movies by title, Actor.

Inputs→ Movie name, Actor name.

Source→ User, Admin.

Pre-condition→ Movie exists.

Post-condition→ //.

Output→The Movie.

4. **Upload**: Description →//

Inputs→ Movie

Source→ Admin

Pre-condition→ Registered as admin.

Post-condition→ Movie data.

Output→ Uploaded Successfully.

5. **Favorite**: Description →//

Inputs→ Movie to be added.

Source→ User

Pre-condition→ User must be logged in.

Post-condition→ Movie to be added.

Output→ List of Movie.

6. /*Search and discovery: Users can browse and search for content using keywords, titles and actors. The system may also provide personalized recommendations based on user's viewing history and preferences.
7. Video playback: The system provides video playback functionality, allowing users to watch content in real-time, pause, rewind, fast-forward, and adjust audio and video settings.*/*
8. Payment and billing: The system manages subscription plans, pricing, and payment processing for users. It may also provide free trials, discounts, and promotional offers.
9. Customer support: The system provides customer support channels, such as email, chat, or phone, to assist users with technical issues, billing questions, and content-

4. Non-functional requirements

6.1 Security

The system shall be designed with a level of security appropriate for the sensitivity of information enclosed in the database. More interaction is needed with client about the volatility of the information. Since there is no obvious information that is of a high security level such as credit card information, the only requirements that could be implemented are encrypting the database and/or making the database password-protected, by user's request.

6.2 Binary Compatibility

This system will be compatible with any computer that has Microsoft Office Professional 2007 or later installed (whether PC or Mac), and will be designed with more than one computer in mind.

6.3 Reliability

Reliability is one of the key attributes of the system. Back-ups will be made regularly so that restoration with minimal data loss is possible in the event of unforeseen events. The system will also be thoroughly tested by all team members to ensure reliability.

6.4 Maintainability

The system shall be maintained by Sheila Roop, of the IDA, or delegated to another employee.

6.5 Portability

The system shall be designed in a way that shall allow it to be run on multiple computers with Microsoft Office Professional 2007 or later installed.

6.6 Extensibility

The system shall be designed and documented in such a way that anybody with an understanding of Microsoft Access shall be able to extend the system to fit their needs with the team's basic instructions.

6.7 Reusability

The system should be designed in a way that allows the database to be re-used regularly for the various silent auctions that the organization shall hold.

6.8 Application Affinity/Compatibility

This system requires the Microsoft Office Professional 2007 suite or later, as it operates primarily through Microsoft Access, in conjunction with Microsoft Excel.

6.9 Resource Utilization

The resources used in the creation of this system include: Dr. Lewis, the client (Sheila Roop), the computers in Davis Hall, and the internet.

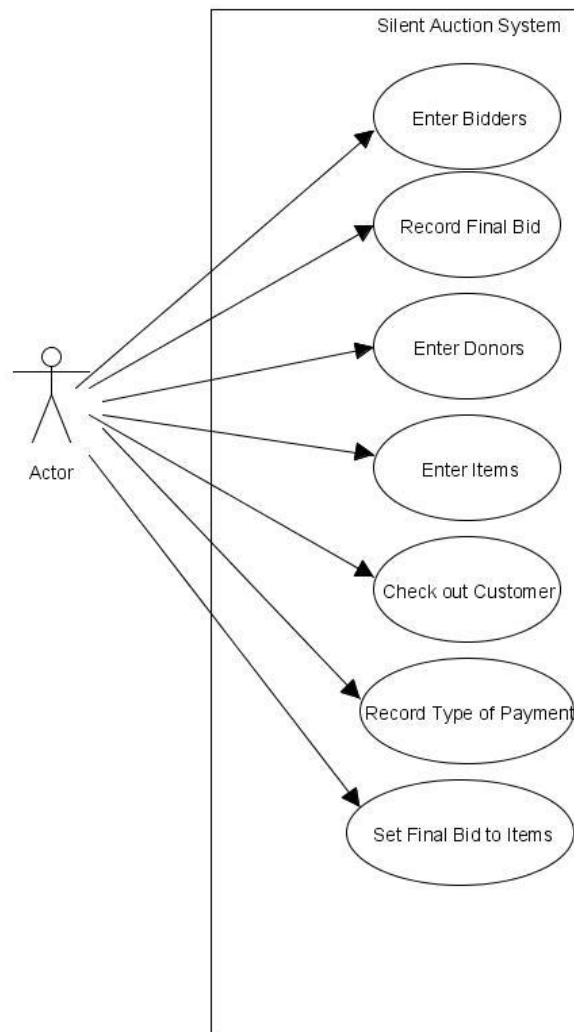
6.10 Serviceability

The maintenance of the system should be able to be sufficiently performed by any person with a basic understanding of Microsoft Access.

8. Preliminary Use Case Models and Sequence Diagrams

This section presents a list of the fundamental sequence diagrams and use cases that satisfy the system's requirements. The purpose is to provide an alternative, "structural" view of the requirements stated above and how they might be satisfied in the system.

8.1 Use Case Model



8.2 Sequence Diagrams

