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MUSIC STREAMING WEBSITE

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Abstract: A music streaming website is an online platform that allows users to listen to and discover music over the internet. These websites provide access to a vast library of songs from various genres, artists, and labels that can be streamed on-demand or played in radio-style channels. Music streaming websites typically offer two types of services: free and paid. Free services usually come with ads and limited access to features, while paid services offer an ad-free experience with unlimited access to all features, including high-quality audio, offline playback, and personalized recommendations. To provide users with a seamless music listening experience, these websites use sophisticated algorithms that analyze user data to create personalized playlists, suggest new music, and recommend concerts and events. They also offer social features that allow users to share music with friends, follow their favorite artists, and engage in discussions. The popularity of music streaming websites has exploded in recent years, with millions of users worldwide. This has led to intense competition among streaming platforms, with each company striving to offer better features, exclusive content, and a larger music library to attract and retain users.

Keywords: services, music, website

Introduction

Music streaming services have become the most popular method for consumers to listen to music. Streaming services offer consumers unlimited access to large catalogues of music. These services store the music in a server that users can connect to via their laptops and mobile devices. Whilst connected to the internet users can listen to any song they wish, by selecting it on the application from which it can then be played. On many services the consumer can choose to store the music locally, by making it available offline. This means that the music is stored on the consumer's device within the memory of the streaming service app. The user does not own any of the music in the catalogue, in this way it is similar to how people rent books from a library. Users are also unable to access the individual MP3 files within the catalogue and therefore they cannot make copies for their own use. Through a monthly subscription whether paid or free, users are able to stream their favourite artists easily on their own devices. The technology of streaming services whether music or video has been growing consistently over the past ten years. Most streaming services allow users to download an application for free from which they are able to access the full service, rather than just using the services main website. Music streaming has grown in popularity due to the fact that many consumers have access to a smart phone with internet on a regular basis. Thus showing that the rise of music streaming services has been dependent on the technology which has been created alongside it. Music streaming has offered the music industry and its artists a new method of sharing and distributing music to consumers across the world.

An online product catalog that can be browsed: The work starts with adding many new product catalog features which includes displaying categories, products, and product details. Basic keyword search: In this approach, the visitor enters one or more keywords in the text box, and the website searches for those keywords in the song names and descriptions. The search results are displayed in a list or grid, sorted by relevance or some other criteria. The visitor can then click on a result to view the song details and listen to a preview or purchase the song. Handling Customer Accounts: In customer account system, details such as credit card numbers are stored in a database so that customers don't have to retype this information each time they place an order. Customers can log in via a login page or dialog box to get access to secured areas of the web site. Once logged in, the Web Application remembers the customer until the customer logs out (either manually via a Log Out button or automatically, if the session times out or a server error occurs)

- **Purpose**

The purpose of this music streaming website is to serve as a valuable resource for academic research in the fields of musicology, cultural studies, sociology, and beyond. Unlike traditional music streaming platforms geared towards entertainment, this website is specifically designed to facilitate scholarly inquiry, analysis, and exploration of musical content.

- **Scope**

The scope of a music streaming website for research encompasses various aspects aimed at facilitating scholarly inquiry, analysis, and exploration of musical content. Here are some key components within the scope:

Extensive Music Catalog:the website should provide access to a diverse and extensive catalog of musical recordings spanning different genres, styles, and cultural traditions. This catalog should include both historical and contemporary recordings, covering a wide range of musical compositions and performances.

Search and Discovery Features: The website should incorporate advanced search and discovery features to help researchers find relevant musical content efficiently. This includes search filters based on genre, era, geographical region, artist, composer, instrumentation, and thematic keywords. Additionally, recommendation algorithms can suggest related tracks or albums based on user preferences and browsing history.

User Authentication and Access Controls: The website should implement user authentication and access controls to ensure that only authorized users, such as researchers, educators, and students, have access to research-related features and content. User accounts may be required to track usage, manage permissions, and provide personalized recommendations and services.

Literature Review

The rise of music streaming services has led to a significant shift in the way music is consumed and distributed. In recent years, there has been a surge of interest in music streaming, and a growing body of research has emerged on the topic. This literature review will provide an overview of some of the key themes and findings in the literature on music streaming websites. One of the primary areas of research has focused on the impact of music streaming on the music industry. Many studies have found that music streaming has led to a decline in album sales, as consumers increasingly turn to streaming platforms to access music. However, some researchers have argued that streaming services can also provide new revenue streams for artists, particularly those with smaller fan bases who may have struggled to monetize their music in the past. Another area of research has focused on the user experience of music streaming websites. Studies have found that users value the convenience and accessibility of streaming services, as well as the ability to discover new music. However, some users have also expressed frustration with the limitations of streaming platforms, such as the limited selection of music and the inability to access certain songs or albums.

Plan for Music Streaming Website

Platform Development: The first step in the proposed plan is the development of the music streaming website platform. The website should be user-friendly and easy to navigate. The platform should have features like search, play, pause, skip, create playlists, and social media integration.
Music Licensing: The website must acquire the necessary licenses for streaming music. The licensing should be done for different regions and genres to ensure a wide range of music is available on the platform.
Content Creation: The platform should allow users to create their playlists and share them with others. Additionally, the platform should also have curated playlists based on different moods, genres, and artists.
User Management: The website must have a user management system that allows users to create accounts, log in, and manage their profiles. The user

management system should also provide options for account upgrades, subscription management, and payment processing. Marketing and Promotion: The platform should be promoted through various channels such as social media, email, and paid advertising. The platform should also collaborate with artists, music labels, and event organizers to increase its visibility and user base. Feedback and Improvement: The platform must continually gather user feedback and use it to improve the platform. The website should have a feedback system that allows users to submit their suggestions, complaints, and issues. The development team should regularly analyze the feedback and make improvements to the platform accordingly. Overall, the proposed plan aims to create a music streaming website that offers a wide range of music, has a user-friendly interface, and is continually improved based on user feedback.

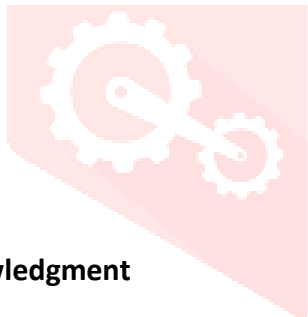
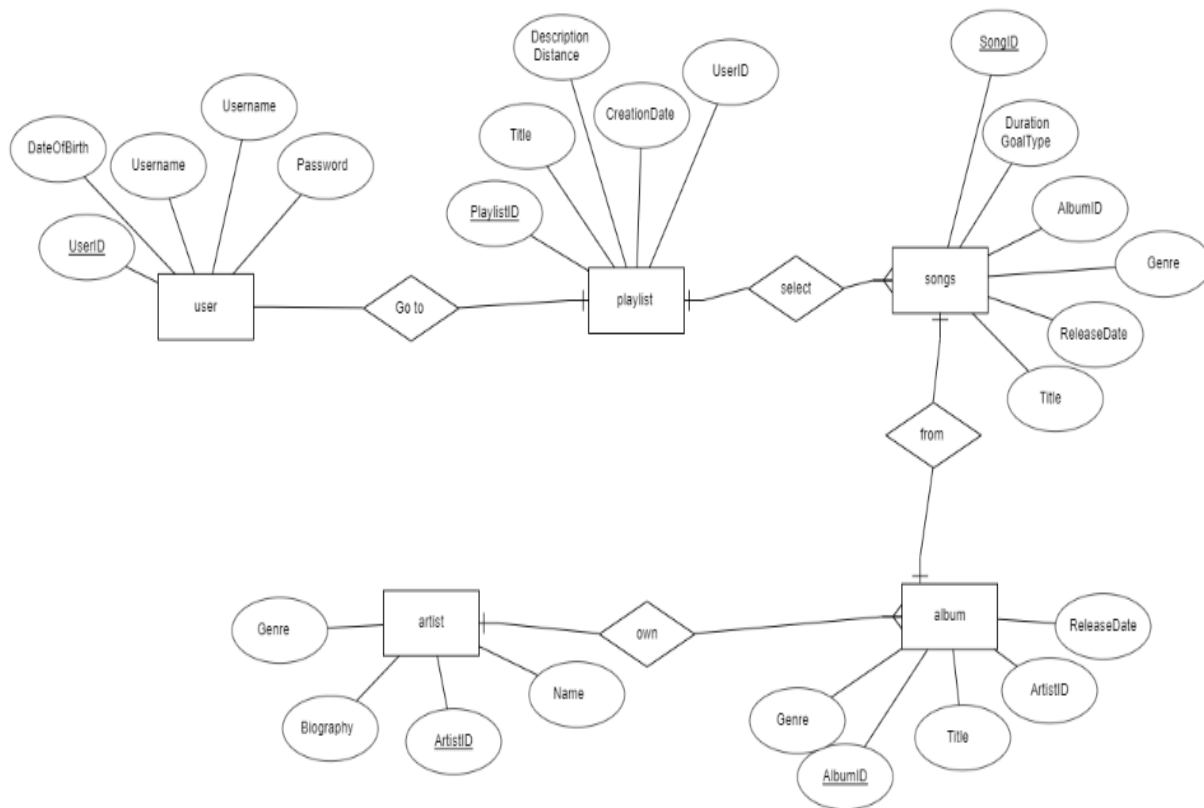
Advantages

Access to a vast music library: Music streaming websites allow users to access a vast library of music from different genres, artists, and time periods. This means that users can easily find and listen to their favorite songs, as well as discover new artists and music. Convenience: Unlike traditional music consumption methods, such as purchasing physical albums or downloading music, streaming websites allow users to access their favorite music from anywhere with an internet connection. This makes it very convenient for users who can access their music on different devices, including smartphones, tablets, laptops, and desktop computers. Personalization: Many music streaming websites offer personalized recommendations based on a user's listening history and preferences. This means that users can discover new music that is tailored to their tastes, making it easier to find music that they will enjoy. Cost-effective: Music streaming websites offer a cost-effective alternative to traditional music consumption methods. Instead of buying individual albums or songs, users can pay a monthly subscription fee to access a vast music library. Social sharing: Music streaming websites allow users to share their favorite songs, playlists, and artists with their friends and followers on social media platforms. This can help users discover new music and expand their music tastes based on their friends' recommendations. High-quality audio: Many music streaming websites offer high-quality audio formats, such as FLAC or lossless audio, which provides better audio quality than traditional audio formats like MP3. This means that users can enjoy their favorite music with better audio quality, which can enhance their listening experience.

Problem With Existing System

The problems faced by this system are numerous. Some of the problems surrounding the existing system include: a. Time consuming and Slow: A customer has to walk to a shop, get into an interview with the receptionist of what he/she wants before he/she starts looking for the song he/she wants. b. Unsecure: Anyone operating this system stands a risk of losing the whole shop due to fires or robbery or the like. c. Organization: The present system is not organized in a manner that it will be effective. This is due to the fact that there is no specified time for going round the store to look for what is needed. The proposed system diminishes the effectiveness of the stores since the system is not organized when information about a particular item is needed or checking its availability; a lot of lengthy and time consuming procedures have to be followed to get the information required.

Data Flow Diagram



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