Software Requirements Specification (SRS) for Spotify Clone

1.Introduction
1.**1 Purpose**: The purpose of this document is to define the requirements for the development of a Spotify Clone, a music streaming application.
1.2 Scope: The Spotify Clone will replicate the core functionalities of the original Spotify application, allowing users to stream music, create playlists, discover new music, and more.

2. Definitions, Acronyms, and Abbreviations
2.1 SRS: Software Requirements Specification
2.2 UI: User Interface
2.3 API: Application Programming Interface

3. References
3.1 Spotify Official Website (www.spotify.com)

4. Overview of the System
The Spotify Clone aims to provide users with a music streaming platform similar to Spotify. It will have features like user authentication, music streaming, playlist creation, recommendations, and user profiles.

5. Functional Requirements
5.1 User Registration and Authentication
Users can register with email or social media accounts.
Users can log in using registered credentials.

5.2 Music Streaming
Users can browse and stream music tracks.
Users can create and manage playlists.

5.3 Playlist Management
Users can create, edit, and delete playlists.
Users can add and remove tracks from playlists.

5.4 Search and Discover
Users can search for music by artist, album, genre, etc.
Users receive personalized music recommendations.

6. Non-functional Requirements

6.1 Performance
The application should load quickly and stream music seamlessly.
Response times for user actions should be within acceptable limits.

6.2 Security
User data and passwords should be securely stored and encrypted.
Secure communication (HTTPS) should be implemented.

6.3 Usability
The user interface should be intuitive and easy to navigate.
Accessibility features should be incorporated for users with disabilities.

7. System Interfaces

7.1 External APIs
Utilize Spotify API for music catalog and recommendations.

8. User Interfaces

8.1 Login Screen
Input fields for username and password.
Options for social media login.

8.2 Playlist View
Display user playlists with options for managing them.

8.3 Music Player
Play, pause, skip, and volume controls.
Display album art, track information, and progress.

9. System and Software Attributes

9.1 Compatibility
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9.2 Reliability

9.3 Scalability

The system should handle an increasing number of users and music tracks.
This document provides an outline for the software requirements of the Spotify Clone,
detailing its functional and non-functional aspects to guide the development process.