Groovify – Product Requirements

Overview
Groovify is a copyright-free, music-focused application designed to provide users with seamless access to songs, discovery features, and social interaction. The app will include secure authentication, intuitive navigation, and a consistent interface that makes it easy to explore music and connect with friends. At its core, Groovify focuses on simplicity, personalization, and reliability, ensuring that users always know where they are in the app and have the tools to customize their experience.

Objectives
The primary objectives of Groovify are to provide a secure and reliable login and registration system, as well as a consistent navigation structure across all pages. Beyond authentication, Groovify emphasizes music management and social interaction. The Playlists tab allows users to create and organize playlists, serving as their personal hub for saved music. The Songs tab is designed for discovering and adding new songs, which can then be stored directly in the user's library or added to a playlist. Finally, the Friends tab offers a social dimension, giving users the ability to view and explore other users' libraries, fostering connection and music sharing within the Groovify community. Together, these objectives establish Groovify as both a personalized music platform and a space for discovery and collaboration.

User Authentication and Account Management
When users open the app, they are greeted with a login screen branded with the Groovify name. Returning users may log in with their existing username and password, while new users can register with a valid email, a unique username, and a secure password. The authentication process is connected to a SQL database, which verifies that login credentials exist and are correct. Incorrect attempts will display an error message, while successful attempts will take the user directly to the Home page. Sessions remain active until a user logs out or the session expires.

Navigation Structure
Navigation in Groovify is designed to be simple and consistent. At the top of every page, there is a persistent navigation bar. On the left side is the Groovify name or logo, in the center is the current page title (such as "Home" or "Song"), and on the right is a circular profile picture icon. Clicking this profile picture leads to the profile and account settings. The top bar never changes, except for the middle title, which updates to reflect the current page.

At the bottom of every page, users will see a five-tab navigation bar that represents the core areas of the app: Home, Song, Playlists, Search, and Friends. This bottom bar is also persistent, ensuring users can easily move between sections without confusion. The active tab will be highlighted with a subtle but noticeable change, such as a slightly larger icon size or a color accent, making it clear which page the user is on.

Profile Management
Profile management is accessible through the profile picture icon in the top-right corner of the navigation bar. From here, users can edit their profile by changing their username, display name, or bio, and they can upload or update their profile picture. The profile section will also include access to account settings such as password reset, linked email management, and

privacy options. This ensures that users can control their personal information and customize their presence within the Groovify community.

User Experience Notes

The user interface of Groovify should remain clean and minimal, with branding placed consistently at the top of the app. Both the top and bottom navigation bars should remain visible across all pages to provide familiarity and reduce the learning curve for new users. Active page indicators should be subtle but effective, helping users know where they are without distracting from the experience. Accessibility is also important, so text should remain easy to read and icons should be intuitive.

Home

The Home tab serves as the central landing page for users after login. Its purpose is to give quick access to personalized content. A recommended section could display suggested songs or artists based on the user's listening habits. Below that, a "Recently Played" section can show the last few tracks the user interacted with, making it easy to jump back in. Another possible addition is a "Trending" or "Featured Playlists" section, showcasing popular content across the platform. The Home page should feel dynamic and relevant, updating regularly to keep users engaged.

Songs

The Songs tab is focused on music discovery. Songs here are organized into categories by genre (e.g., Pop, Rock, Hip-Hop, Electronic), allowing users to explore based on preference. Each song is displayed as an image tile with the artist's name shown at the bottom of the image. In the top-left corner of each song title, there is a "+" button that allows users to quickly add the track to their downloads. This design creates a smooth browsing experience while encouraging users to expand their library with new finds.

Playlists

The Playlists tab acts as the user's personal music hub. Within this page, there is a Downloads section, where all downloaded songs are listed and available to be clicked and played. In addition, users can create and manage playlists. Each playlist will have a customizable name and cover image, and users can add or remove songs at any time. This tab ensures that users have full control over their saved music and can organize it in ways that fit their listening style.

Search

The Search tab gives users the ability to directly find music within the app. A search bar at the top allows queries by song title, artist, or genre. Results are displayed in a clean, scrollable list with song images and artist names. To improve usability, filters may be included so users can refine results (e.g., filter by genre or popularity). From the search results, songs can be previewed, downloaded, or added to playlists, making this a powerful tool for building a personal collection.

Friends

The Friends tab introduces Groovify's social component. Users can search for other users by username and send friend requests. A separate section displays the user's friends list, which includes profile pictures and usernames. By clicking on a friend's profile, users can view their playlists and listen to shared tracks. This creates opportunities for music discovery through social interaction, allowing friends to inspire each other's listening habits and build connections around music.