Groovify – Product Requirements

Overview

Groovify is a copyright-free, music-focused application designed to provide users with seamless access to songs, discovery features, and personalization tools. The app includes secure authentication, intuitive navigation, and a consistent interface that makes exploring music simple and engaging. At its core, Groovify focuses on simplicity, personalization, and reliability, ensuring users always know where they are in the app and have the tools to customize their experience.

Objectives

Groovify provides secure login and registration, consistent navigation, and personalized music management. The Home tab gives users recommendations based on their favorite genres. The Songs tab allows users to browse all songs dynamically, while the Playlists tab serves as a hub for saved music. Search allows users to find songs by genre or title. Together, these objectives establish Groovify as a personalized music platform for discovery and enjoyment.

User Authentication and Account Management

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

Navigation Structure

Navigation in Groovify is simple and consistent. A persistent top bar contains the Groovify logo on the left, the current page title in the center, and a circular profile picture icon on the right. Clicking the profile picture opens the profile and account settings.

The bottom navigation bar includes four tabs: **Home, Songs, Playlists, and Search**. The active tab is highlighted with a subtle visual cue, making it clear which page users are on. This navigation structure remains visible across all pages.

Profile Management

Profile management is accessible by clicking the profile picture in the top-right corner. Users can edit their profile by adjusting their username (unique, 3–32 characters), description (max 250

characters), changing their profile picture, and selecting favorite genres. These settings allow users to personalize their experience and control their account details.

User Experience Notes

The interface remains clean and minimal, with consistent branding at the top. Both top and bottom navigation bars are persistent across all pages. Active page indicators are subtle but effective, helping users know where they are without distraction. Text is readable and icons are intuitive.

Home

The Home tab provides a personalized landing page. A Recommended section displays five songs based on the user's favorite genres, which are selectable in the profile menu. The Home page also includes a Developers section, where users can click "Us" to learn more about the developers.

Songs

The Songs tab displays every song dynamically. Each song shows an album cover based on its genre, with the song title and artist name at the bottom. Clicking a song adds it to the Media Bar for playback.

Media Bar

The Media Bar appears on pages with playable songs. It shows the song title, current position, and total length in minutes and seconds. Sliding bars adjust playback position and loudness. Back and forward arrows navigate between songs. An arrow on the left allows the Media Bar to collapse or expand as a toggle.

Playlists

The Playlists tab acts as the user's personal music hub. Users can view downloaded songs and create or manage playlists. Each playlist has a customizable name and cover image, and songs can be added or removed at any time. Users have full control over their saved music and organization.

Search

The Search tab allows users to find music by genre or song title. The search is flexible: partial matches are sufficient. For example, typing "ro" for genre finds all rock songs, and typing "co" for a song title finds any song containing that sequence. Results display song images and artist names, and clicking a song adds it to the Media Bar.