Group02 - 22CLC04

Introduction to SE

Beatify

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Introduction

Beatify is a music streaming platform that aims to provide music fans with a smooth and joyful listening experience. With the increasing popularity of digital music, there is a growing desire for platforms that include not only extensive music libraries, but also services that keep users interested. **Beatify** will prioritize providing an intuitive and user-friendly experience, allowing listeners to easily find and enjoy new music. We hope to establish a powerful alternative to popular platforms such as Spotify and Apple Music by focusing on ease of use and new features.

Target users and environments

Our app's major target users are music fans looking for a modern and dynamic method to listen to music. This group frequently uses smartphones, tablets, and laptops, thus our app is accessible on a variety of platforms. We will create a responsive online web application that is compatible with all main operating systems (Windows, macOS, iOS, and Android), allowing users to enjoy their music regardless of device. By providing a uniform experience across platforms, we hope to attract a varied user base.

Key features

1. **User Account Management**:
   - Sign up, log in, log out
   - Password recovery (Forgot Password)
   - Email verification and session management
2. **Basic Music Playback**:

- ○ Search and play music from the library
- ○ Playback controls like Play, Pause, Next, Previous, Shuffle, and Repeat
3. **Enhanced Audio Experience for Premium Users**:
   - ○ Custom playback speed control
   - ○ Equalizer to adjust sound quality according to preferences
4. **Playlists and Personal Library**:
   - ○ Create and manage playlists
   - ○ Save favorite songs
   - ○ Display listening history
5. **Payment Integration**:
   - ○ Use Stripe to handle payments and manage subscription plans (free and premium)
6. **Personalized Music Experience**: (optional)
   - ○ Suggest new songs to users based on their listening habits, integrated with AI for personalized recommendations

Tools and Technologies:

- **NextJS** and **React**: For building the user interface and site navigation
- **Express**: For building the backend, handling API requests, user authentication, and integration with the database.
- **Supabase** and **MongoDB**: Database management for user and song data
- **Tailwind CSS**: For creating a modern and customizable user interface
- **Stripe**: To manage payments and premium subscriptions