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GITHUB-[https://github.com/Shubhamraj73773/Melodia\\_mix](https://github.com/Shubhamraj73773/Melodia_mix)

## **Use cases**

Detailed Use Cases:

### **1. User Registration:**

Description: A new user signs up by providing a unique username, email, and password.

Precondition: User accesses the registration page.

Postcondition: User's registration details are stored securely, and they gain access to the platform's features.

Flow of Events:

1. User navigates to the registration page.
2. User enters a unique username, email, and password.
3. System validates the uniqueness of the username and email, and password strength.
4. User submits the registration form.
5. System securely stores the user's registration details.

### **2. Explore and Discover Music:**

Description: Users can explore and discover music by genres, playlists, and personalized recommendations.

Precondition: User accesses the music exploration page.

Postcondition: User discovers new music and playlists based on their preferences.

Flow of Events:

1. User navigates to the music exploration page.
2. User browses music by genres or explores curated playlists.
3. User receives personalized recommendations based on their listening history.
4. System updates recommendations based on user interactions and feedback.

### **3. Create and Manage Playlists:**

Description: Users can create and manage personalized playlists.

Precondition: User is logged in and accesses the playlist creation page.

Postcondition: User creates a new playlist or updates existing ones with their favorite songs.

Flow of Events:

1. User navigates to the playlist creation page.
2. User creates a new playlist and gives it a title.
3. User adds songs to the playlist by searching or browsing the music library.
4. User saves the playlist, and it becomes accessible in their library for future listening.

#### 4. Follow Artists:

Description: Users can follow their favorite artists and friends to stay updated on their latest releases and activities.

Precondition: User accesses the artist or friend profile page.

Postcondition: User receives updates and recommendations based on the activities of followed artists and friends.

Flow of Events:

1. User navigates to the artist or friend profile page.
2. User clicks on the "Follow" button to follow the artist or friend.
3. User receives updates on new releases, concerts, and activities from followed artists and friends.

### **Tools, Technologies, APIs and Libraries used.**

#### **Frontend Technologies:**

1. Next.js : Next.js a framework built on top of React.js served as the primary frontend framework for building interactive user interfaces. Its component-based architecture allowed for modular development and efficient UI updates.

2. TypeScript : TypeScript was used to add static typing to the JavaScript codebase, enhancing code reliability and developer productivity.

3. Tailwind CSS : Tailwind CSS provided a utility-first approach to styling, enabling rapid prototyping and easy customization of UI components.

4. React Hook Form : React Hook Form was utilized for efficient form handling and validation, facilitating smooth user interactions with input fields.

5. Supabase Auth : Supabase Auth provided user authentication and authorization functionalities, ensuring secure access control to the application's features.

6. Stripe.js : Stripe.js was integrated for handling secure payment processing, enabling users to make purchases and subscriptions within the application.

7. React Icons : React Icons library provided a wide range of customizable icons for enhancing the visual appeal of the application.
8. React Spinners : React Spinners library offered customizable loading spinners to indicate asynchronous operations, enhancing user experience during data fetching.
9. React Hot Toast : React Hot Toast provided customizable toast notifications for displaying alerts and messages to users.
10. Use-Sound : Use-Sound library enabled the integration of sound effects for enhancing user interactions and feedback within the application.

### **Backend Technologies:**

1. Node.js with Next.js: Node.js with Next served as the backend server framework, facilitating efficient handling of HTTP requests and responses.
2. Supabase : Supabase provided a backend-as-a-service platform for data storage, management, and real-time event handling.
3. Supabase Realtime : Supabase Realtime enabled real-time updates and notifications, allowing clients to subscribe to changes in the database.
4. Stripe API : The Stripe API was integrated for secure payment processing, enabling the handling of payment transactions and subscription management.

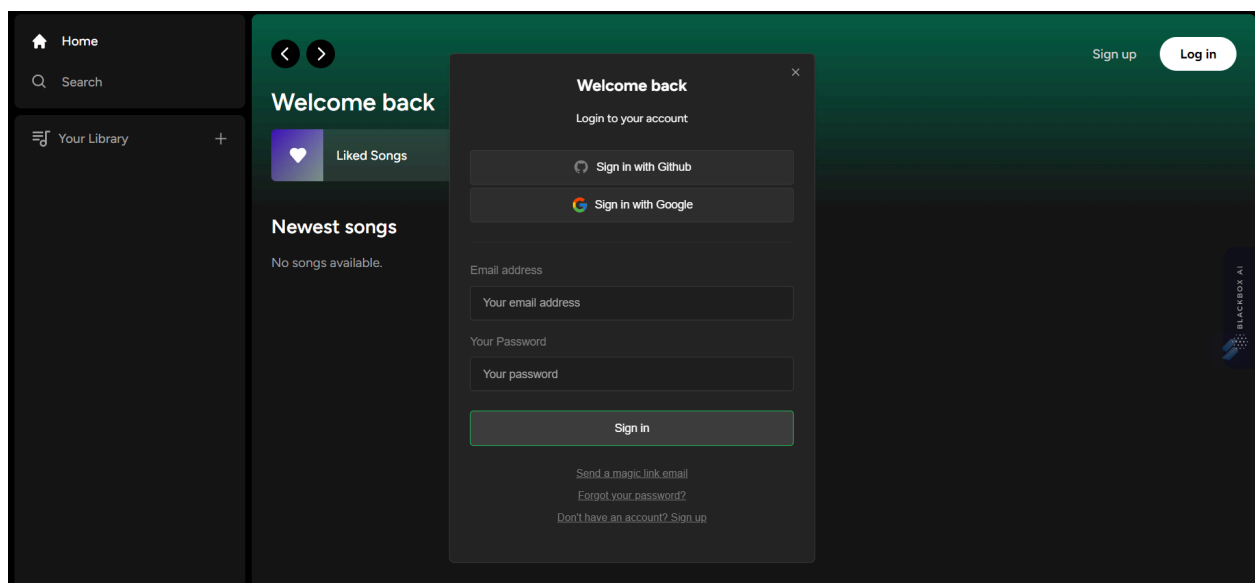
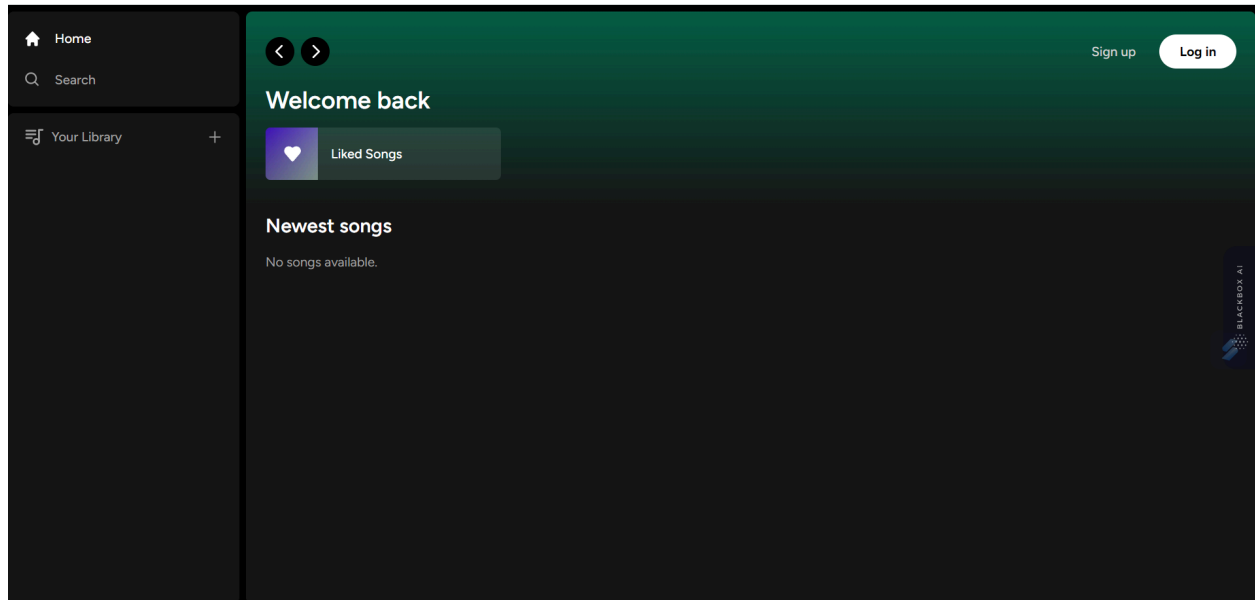
### **Build Tools and Utilities:**

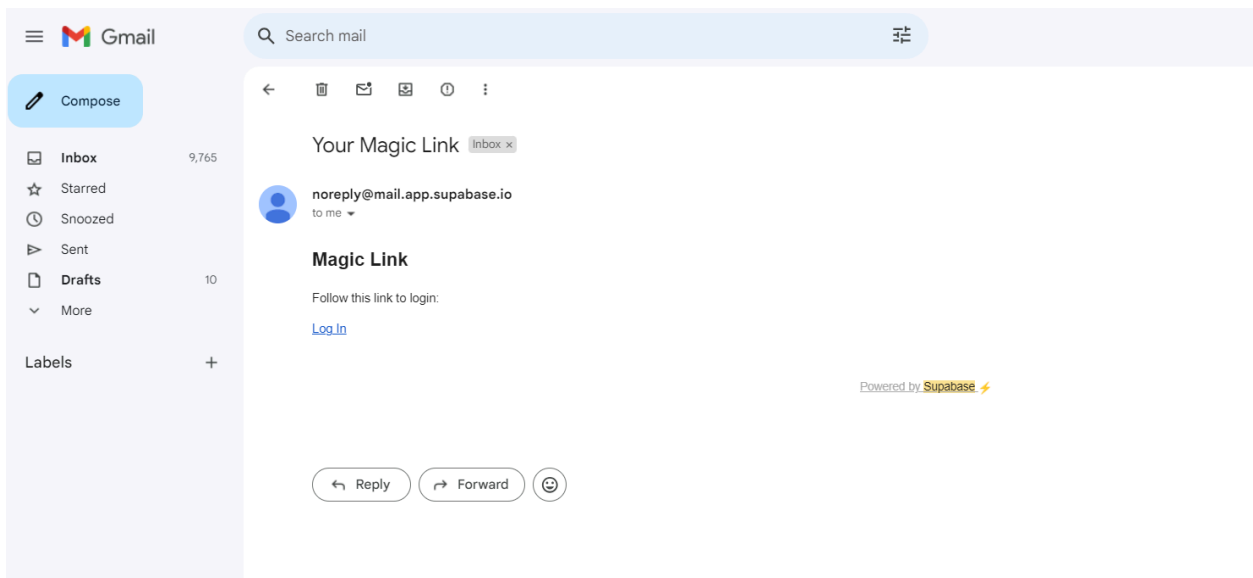
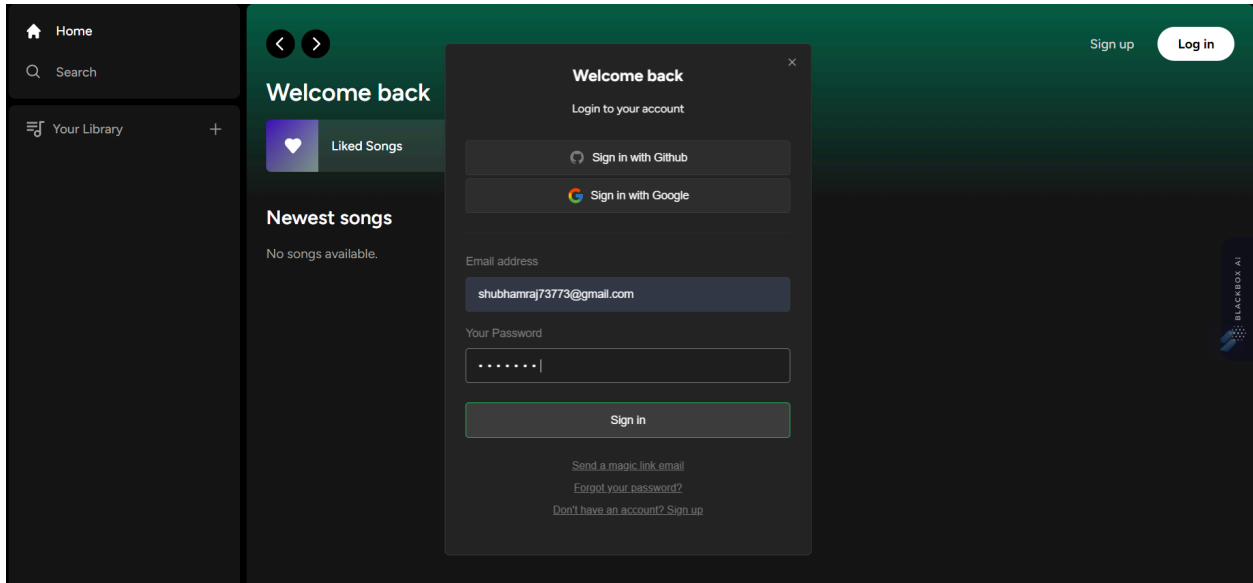
1. Next.js : Next.js was used as the React framework for server-side rendering, enabling optimized performance and SEO-friendly rendering of web pages.
2. ESLint : ESLint was utilized for static code analysis and enforcing code quality standards across the codebase.
3. PostCSS : PostCSS served as the CSS preprocessor for applying transformations and optimizations to the stylesheets.

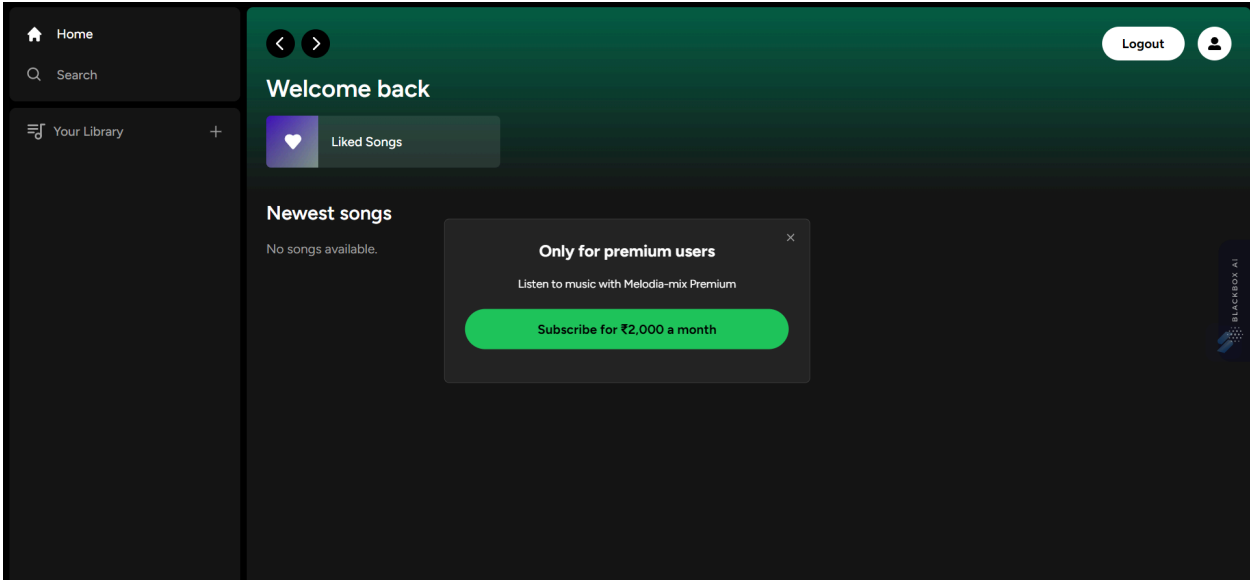
4. Autoprefixer : Autoprefixer automatically added vendor prefixes to CSS rules, ensuring cross-browser compatibility.

5. Query-String : Query-String library provides utilities for parsing and stringifying URL query parameters.

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