SOUNDVOYAGE

BCA - SEM (02) - DIV (V)

SILVER OAK COLLEGE OF COMPUTER APPLICATION

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Abstract

SoundVoyage is a web-based music player. SoundVoyage includes a dedicated artist page, artist-curated playlists, and a responsive design achieved through media queries.

SoundVoyage is divided in 3 parts: *side-playlist-menu, main-player-section,* and *play-bar.*

Side-Playlist-Menu consists of side bar for Artist playlist. Which while in phone or tablet mode hides. We can access it via a button which will open Side-Playlist-Menu in phone or tablet devices.

Main-Player-Section consist of Popular songs and List of Artists.

Below that we have Play-Bar. It consists of actions such as play/pause tracks, forward/backward tracks, downloading tracks, seek bar to move ahead or behind in a track and volume control options.

In making SoundVoyage we have taken inspiration from various sources that are available online and we have tailored these elements to suit our specific requirements.

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Introduction

For our 2nd Semester innovative assignment our group have decided to make a mini project. After consideration, we decided that we should make something that will challenge our skills and enhance them while working on this project. Hence, we decided to make a web-based music-player.

While making SoundVoyage our approach was to have a look at the existing music players and get inspiration from them regarding what features we should include. We have used various online platforms and YouTube videos to learn some advance concepts which was necessary to make SoundVoyage functional.

We have added NCS (No Copyright Sounds) in SoundVoyage for now, as we do not have licence to use copyright music.

Methodology

We have divided the making of SoundVoyage in 3 parts, **HTML**, **CSS** and most importantly **JavaScript**.
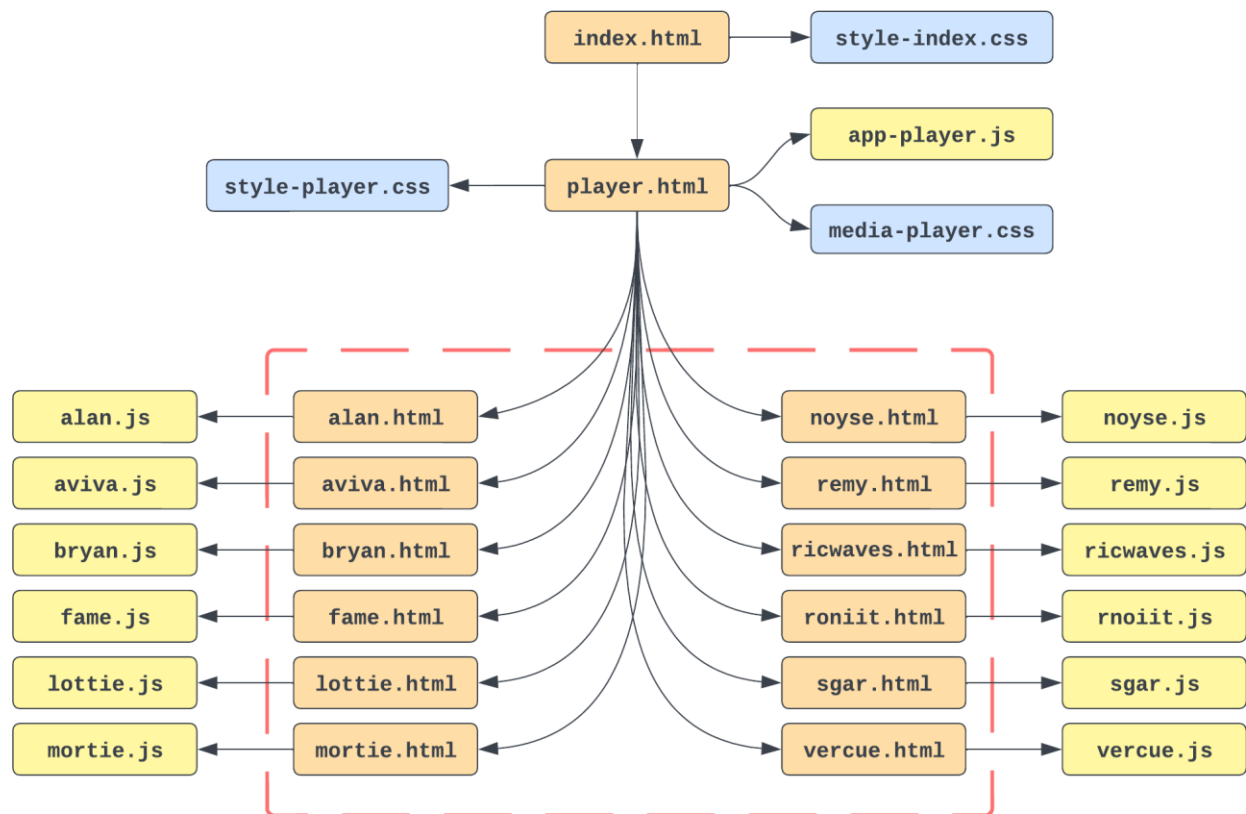

Image-01 Site Structure

HTML

In HTML, we have created a basic structure of SoundVoyage using multiple div elements. For the *side-playlist-menu*, we used list tags to create a list of tracks.

We have divided *main-player-section* into 3 parts, header which contains title and image of the artist. Below that we have songs section, which contains all the songs of the artist. Below that we have artists section which contains list of all the artists.

Further below the *main-player-section* we have *play-bar*, which shows you currently playing track and allows user to forward, previous, play/pause, download, and to adjust volume.

CSS

In CSS, we have utilized various properties like display, fonts, z-index, animation and transitions, box-shadow, padding, margins to make SoundVoyage look modern. We have used google web font Poppins. We have also implemented media-query CSS which made SoundVoyage responsive. We have used Bootstrap icon font to add some icons. We have used Poppins fonts provided by Google Fonts as default for entire site.

Within the main div, elements are structured using flexbox, with a relative position, 95% width and height, and a border radius of 10px. A box shadow is applied to give it depth.

The side playlist menu and main player section are given specific widths and heights, along with background colors and box shadows to differentiate them visually. The side playlist menu contains a list of songs and artists, while the main player section displays the currently playing song along with playback controls.

In the side playlist menu, individual songs are listed with their respective details, such as title, artist, and album art. The styling includes hover effects to enhance visual appealing.

At the bottom of the interface, the bottom play bar section contains playback controls, including buttons for shuffling, skipping tracks, play/pause functionality, and volume control.

JavaScript

In JavaScript we have created playlist array, containing objects representing individual songs, each with properties like ID, song name, and poster image URL. For music control we have used event listeners that respond to user interactions with the master play button. When clicked, these listeners toggle between play and pause. Additionally, we have added navigation functionalities through event listeners attached to each song item, allowing users to load and play selected songs, as well as providing options for navigating to previous and next songs within the playlist.

We have also added internal JavaScript in each HTML (except index.html) for displaying Side Playlist Menu toggle button based on device width. When we open the site in device having display width less than 930px it will automatically hide Side Playlist Menu and a button will appear to access the said Menu.
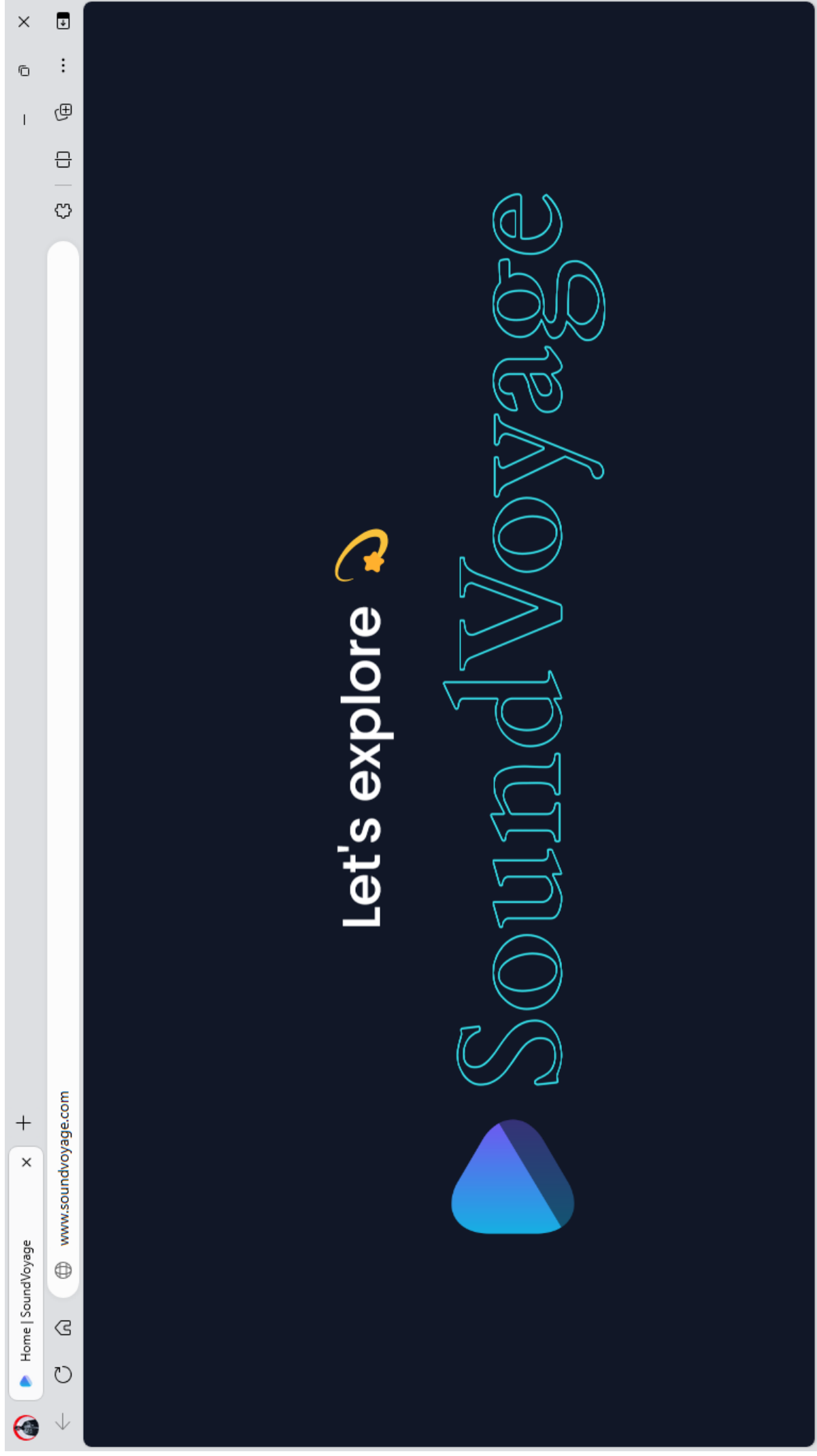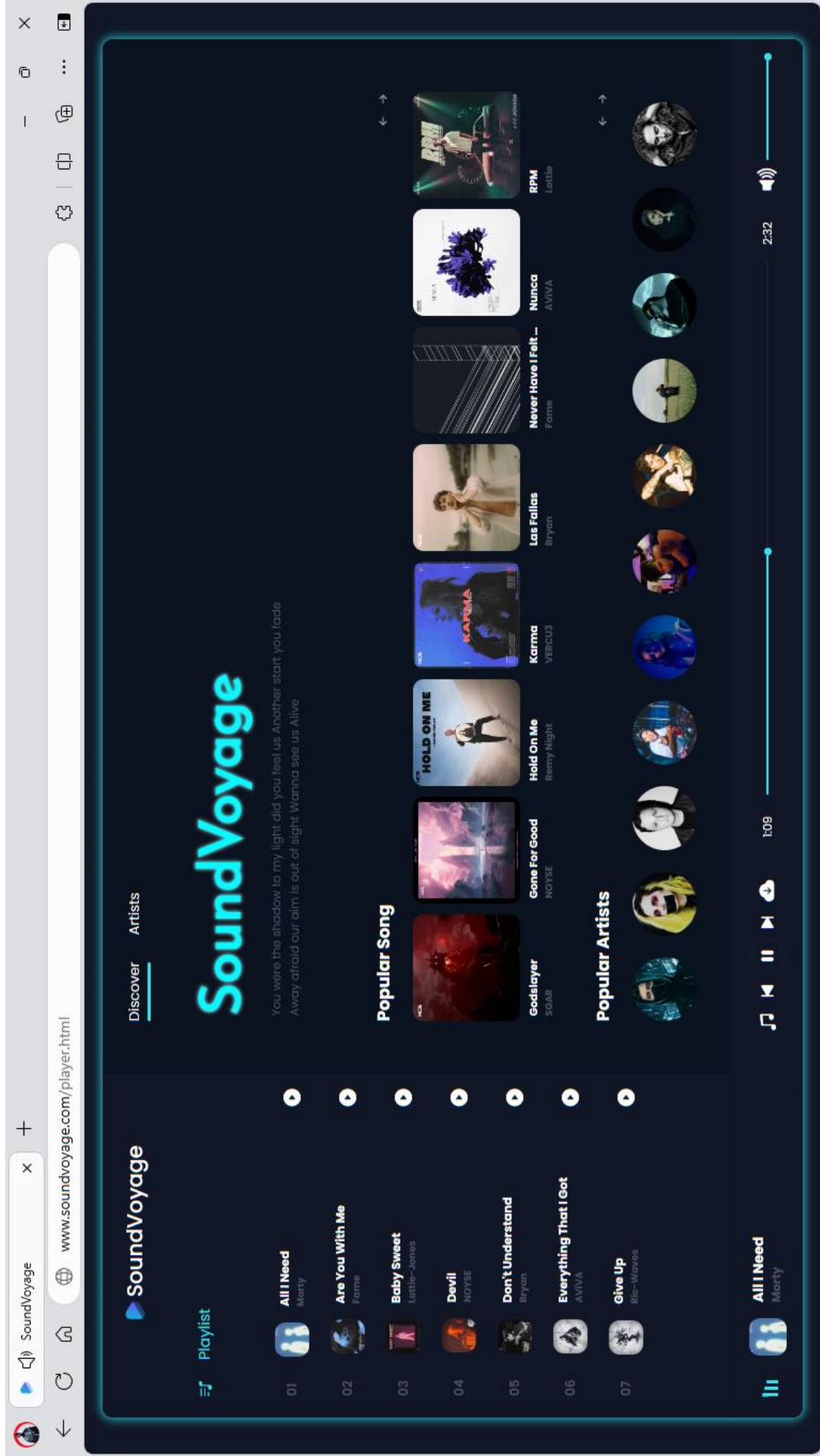
Results

Image-02 SoundVoyage Home Page

Image-03 SoundVoyage Player Page
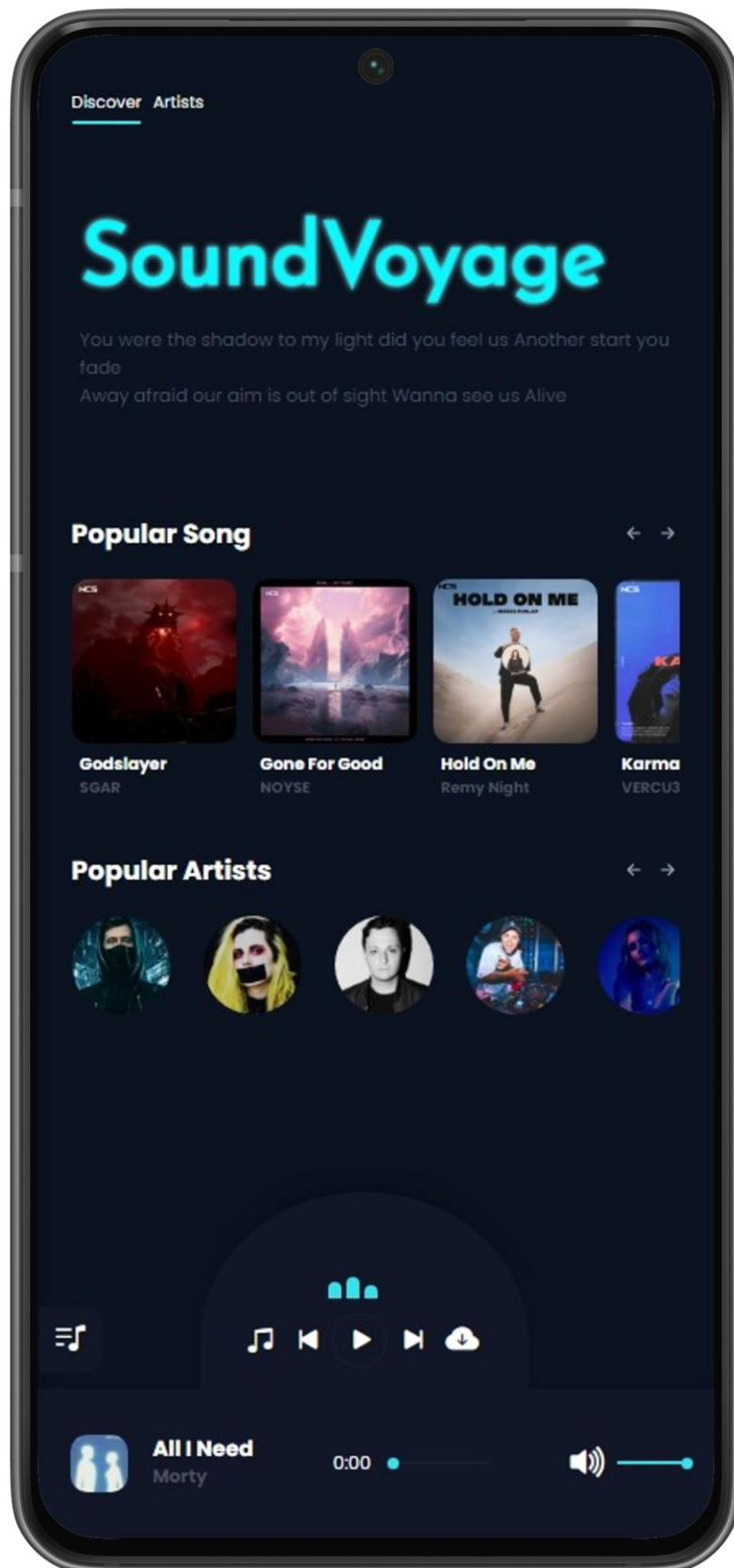
Image-04 SoundVoyage Artist Page

Responsiveness
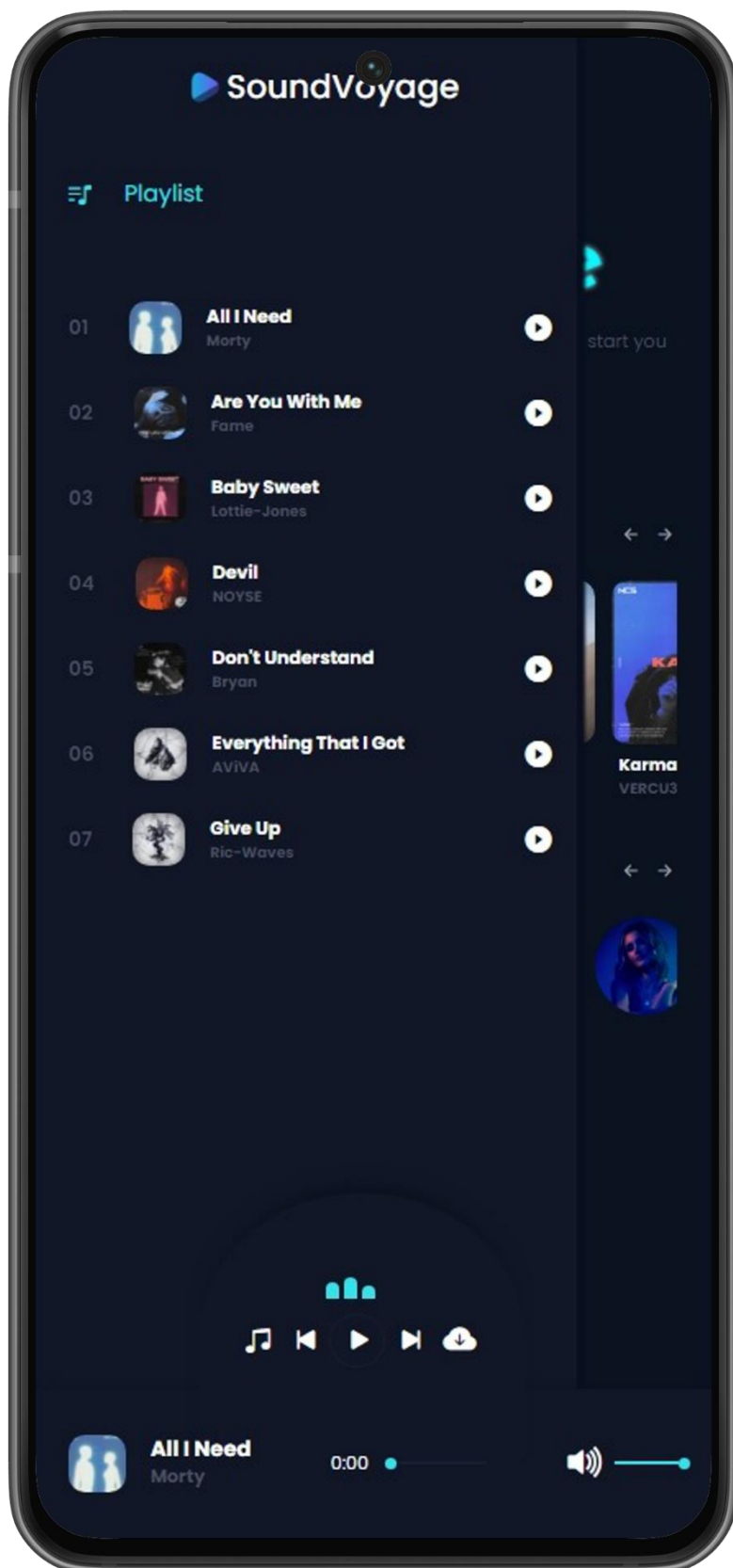
Image-05 SoundVoyage Player Page (Phone)

Image-06 SoundVoyage Player Page Side Menu (Phone)

Tablet

Discover   Artists

SoundVoyage

You were the shadow to my light did you feel us Another start you fade
Away afraid our aim is out of sight Wanna see us Alive

Popular Song   ← →

Godslayer   **Gone For Good**   **Hold On Me**   **Karma**   **Las Fallas**   **Never Have I Felt ...**   **Nunca**
SGAR   NOYSE   Remy Night   VERCU3   Bryan   Fame   AVİVA

Popular Artists   ← →

All I Need
Morty

♫ ⏮ ▶ ⏭ ☁   0:00 ●————————————   🔊 ————————
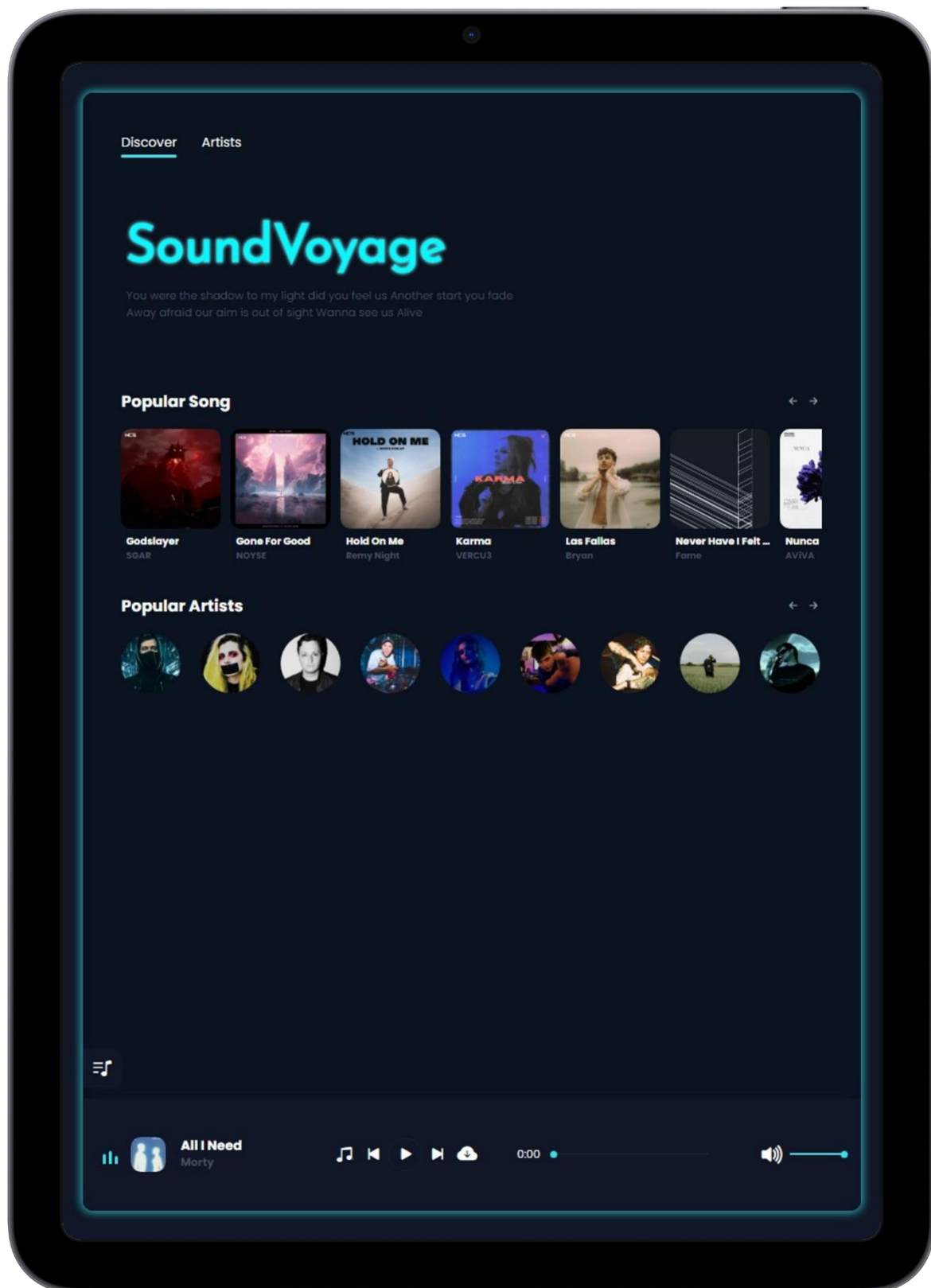
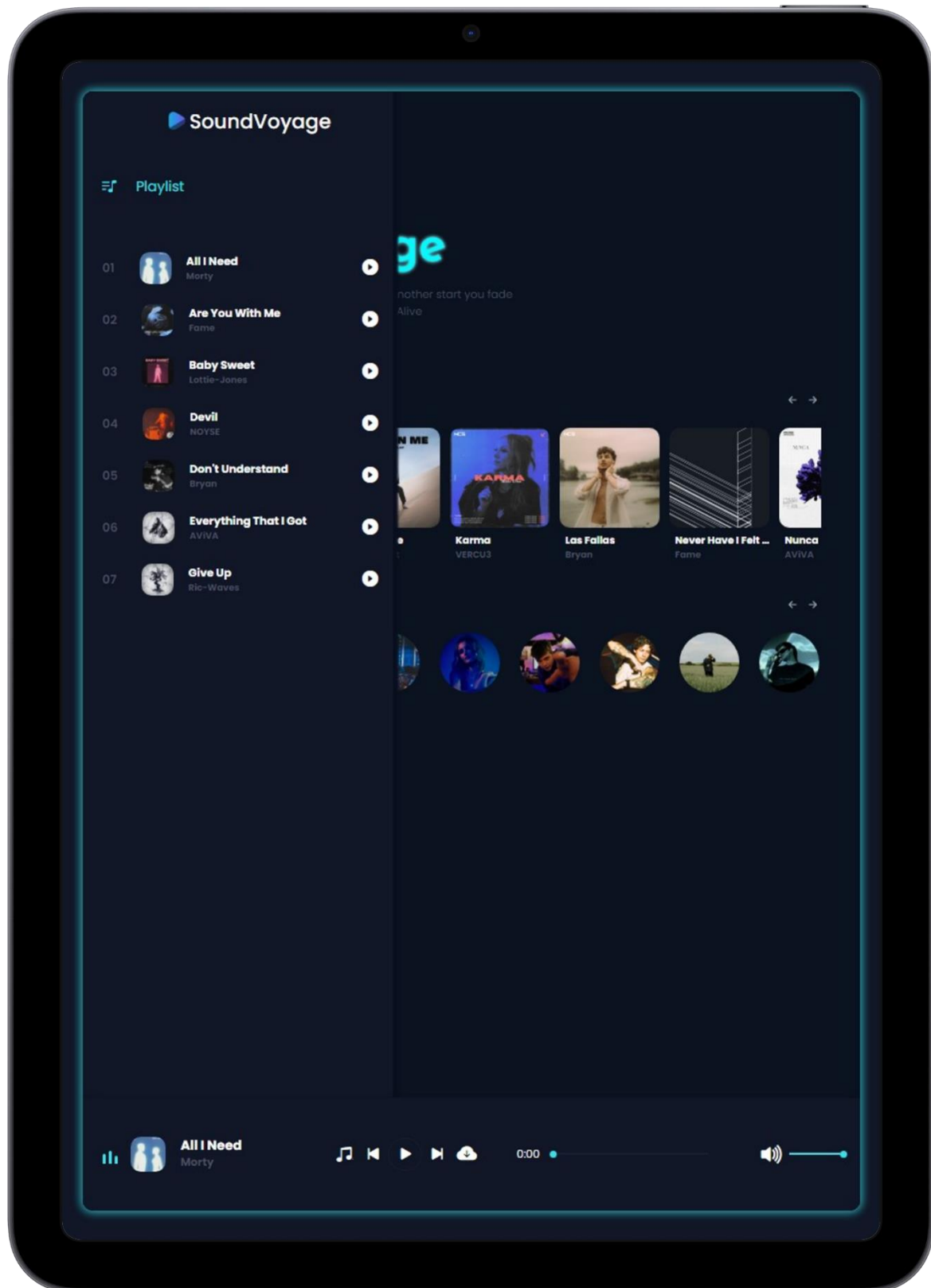*Image-07 SoundVoyage Player Page (Tablet)*

Image-08 SoundVoyage Player Page Side Menu (Tablet)

Limitations and Future Improvements

Currently SoundVoyage is accessible only through offline medium. Due to extensive size of audio tracks, we could not upload the site to hosting server.

We can also add a Search bar to let user search for any tracks. And categorizing tracks into genres for better access.

Another improvement could be to add User Account option which lets any user customize playlists according to their preferences. Hence providing personalized experience.

Currently SoundVoyage is accessible through browser only. A dedicated app for phone and tablet (both iOS and Android) would be a great improvement.

References

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