

# WEB DEVELOPMENT SUMMER INTERSHIP PROJECT 2025



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<https://samirjsarmah.me/Samify-MusicPlayer/>

# Purpose

Music streaming web application inspired by popular platforms like Spotify. The project structure includes multiple playlists stored in dedicated folders, each containing MP3 audio files and a playlists.json metadata file with contains all the meta data of the Playlists.

1. A landing page (index.html) for initial access.
2. A main player interface (main.html) displaying playlists, a library of songs, and playback controls.

# Users Can

- 1 **Browse playlists visually with album covers and artist information**
- 2 **Load and play songs from any selected playlist.**
- 3 **View track details, progress, and duration**
- 4 **Use play, pause, next, and previous controls**

# Technologies Used

- 1 **HTML** - for page structure.
  
- 2 **CSS** - for responsive design and styling
  
- 3 **JavaScript** -
  - Loading playlist data from JSON.
  - Handling audio playback and controls.
  - Dynamically updating the user interface



# Key Features

Multiple playlists with MP3 files.

Dynamic content loading using JSON(JavaScript Object Notation File) .  
Interactive audio controls (play, pause, next, previous).

Responsive and modern design.

Clear separation between landing page and player interface.

Responsive UI with hamburger navigation

# Project Structure (Directory Overview)

**index.html** ← Landing Page

**main.html**

```
|  
|   |<body>  
|   |   |.main-wrapper  
|   |   |   |.left  
|   |   |   |   |.logo      ← Sidebar (hamburger menu)  
|   |   |   |   |.songList    ← Website name / icon  
|   |   |   |   |<ul>...</ul>  
|  
|   |.right      ← Main area  
|   |   |.topbar  
|   |   |   |.hamburger    ← Mobile menu toggle  
|   |   |   |<img>      ← Icon <p> Feel THE Music </p>  
|  
|   |.cardContainer    ← Playlist cards (thumbnails)  
|   |   |.card        ← Individual playlist  
|  
|   |...  
  
|   |.currentPlaying    ← Now playing song info  
|   |   |.songinfo  
|   |   |.songtime  
  
|   |.seekbar      ← Progress bar  
  
|   |.controls      ← Play, Pause, Previous, Next, Volume  
|   |   |#previous  
|   |   |#play  
|   |   |#next  
|   |   |.volume  
|   |   |<img> icon  
|   |   |.range input
```

**css/**

```
|   |   |style.css      ← Core styles for layout  
|   |   |utility.css    ← Reusable classes
```

**js/**

```
|   |   |script.js     ← Loads playlists.json and controls playback
```

**img/**

```
|   |   |icon.png       ← Site favicon  
|   |   |play.svg, pause.svg  ← Control icons  
|   |   |volume.svg, mute.svg  
|   |   |music.svg       ← List icons
```

**playlists.json** ← All playlist info (title, cover, songs)

```
[  
{  
  "folder": "A_zubeen_mode",  
  "cover": "songs/A_zubeen_mode/cover.jpg",  
  "title": "Zubeen Mode",  
  "description": "Zubeen's Collections",  
  "songs":  
  [  
    "AAMI JEN JANTRA.mp3",  
    "Anuradha.mp3",  
    "MAYA MATHU.mp3",  
    "Mayabini Ratir Bukut.mp3"  
  ]  
},  
  
{  
  "folder": "K-Lofi",  
  "cover": "songs/K-Lofi/cover.jpg",  
  "title": "Lofi Music",  
  "description": "Relaxed Beats",  
  "songs": [  
    .....mp3  
  ]  
}
```

# The Frontend UI

## LAYOUT:

- left panel: Navigation & Library
- right panel: Header, playlists, and the playbar

## FEATURES:

- Hamburger menu (for mobile view)
- Dynamic playlist rendering
- Controls: Play, Pause, Next, Previous
- Volume slider
- Seekbar with live updates

# The Styling

## **STYLE.CSS (STYLING THE PLAYER)**

- Dark theme inspired by Spotify
- Responsive using media queries
- Styled cards for albums
- Playbar fixed at the bottom
- Hover effects on cards
- Current song highlighted with a green background (.playing class)

## **UTILITY.CSS (REUSABLE UTILITY CLASSES)**

Examples:

- .flex, .bg-black, .rounded
- Custom scrollbar styling

# JavaScript Logic

## SCRIPT.JS

### Key Functions:

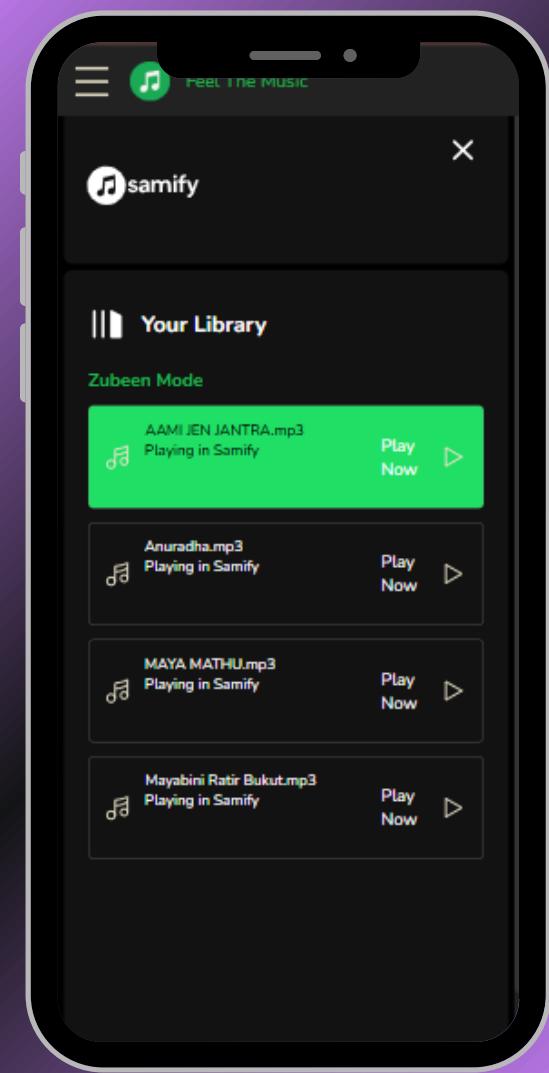
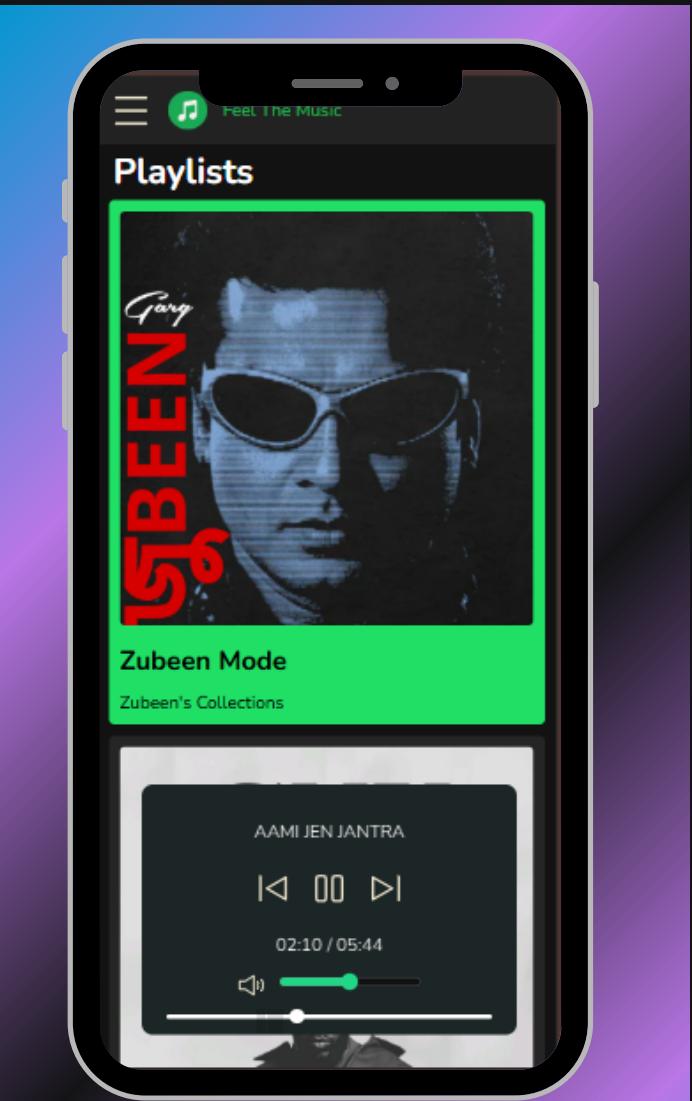
- *getSongs(folder)*  
Fetches MP3 files from meta file and lists them.
- *playMusic(track)*  
Loads and plays a specific track; highlights it.
- *displayAlbums()*  
Fetches all albums
- *main()*  
Initializes:
  - First song
  - Event listeners for play, pause, seek, volume
  - Album switching and UI controls

# The Desktop View



# The Mobile View

A screenshot of the Samify web player on a desktop browser. The interface has a dark theme. On the left, there's a sidebar titled "Your Library" showing four tracks: "AAMI JEN JANTRA.mp3", "Anuradha.mp3", "MAYA MATHU.mp3", and "Mayabini Ratin Bukut.mp3", each with a "Play Now" button. The main area is titled "Playlists" and displays a grid of various playlists like "Zubeen Mode", "GNX", "Drake", "LUCKY ALI", "Angurag Papon", "Post Malone", "Beats", "Chill Music", "Bolly Mix", "Latest Trends", "Phonk", and "Lofi Music". At the bottom, a track is playing: "AAMI JEN JANTRA" by Zubeen Garg, with a progress bar showing 00:01 / 05:44 and volume controls.



# Thank You

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