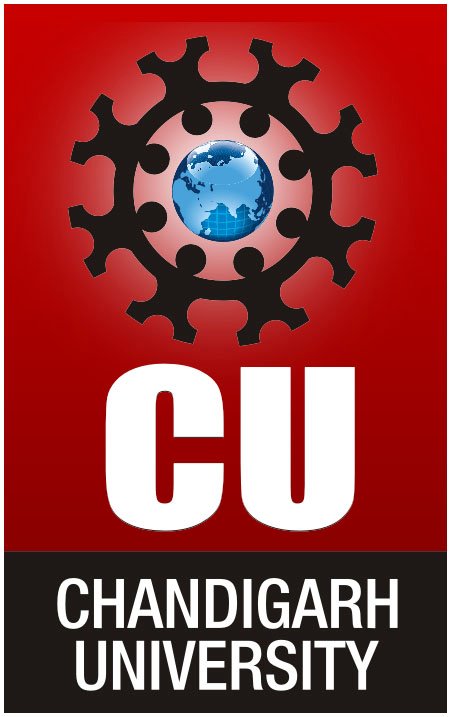
****

**1. Abstract**

The Spotify Clone is a front-end web development project designed to replicate the user interface and core functionality of the popular music streaming platform, Spotify. The goal was to create a visually appealing and responsive music app that provides a smooth user experience, mimicking Spotify’s layout and basic features like music playback, playlists, and navigation. This project showcases the implementation of HTML, CSS, and JavaScript to build an engaging music interface.

2. Html code

<!DOCTYPE html>

<html lang="en">

    <head>

        <meta charset="UTF-8">

        <meta http-equiv="X-UA-Compatible" content="IE=edge">

        <meta name="viewport" content="width=device-width, initial-scale=1.0">

        <title>Spotify - Your favourite music is here</title>

        <link rel="stylesheet" href="style.css">

        </head>

<body>

    <nav>

        <ul>

            <li class="brand"><img src="logo.png" alt="Spotify"> Spotify</li>

            <li>Home</li>

            <li>About</li>

        </ul>

    </nav>

    <div class="container">

        <div class="songList">

            <h1>Best of NCS - No Copyright Sounds</h1>

            <div class="songItemContainer">

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="0" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="1" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="2" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="3" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="4" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="5" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="6" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="7" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="8" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

                <div class="songItem">

                    <img alt="1">

                    <span class="songName">Let me Love You</span>

                    <span class="songlistplay"><span class="timestamp">05:34 <i id="9" class="far songItemPlay fa-play-circle"></i> </span></span>

                </div>

            </div>

        </div>

        <div class="songBanner"></div>

    </div>

    <div class="bottom">

        <input type="range" name="range" id="myProgressBar" min="0" value="0" max="100">

        <div class="icons">

            <!-- fontawesome icons -->

            <i class="fas fa-3x fa-step-backward" id="previous"></i>

            <i class="far fa-3x fa-play-circle" id="masterPlay"></i>

            <i class="fas fa-3x fa-step-forward" id="next"></i>

        </div>

        <div class="songInfo">

            <img src="playing.gif" width="42px" alt="" id="gif"> <span id="masterSongName">Warriyo - Mortals [NCS Release]</span>

        </div>

    </div>

    <script src="script.js"></script>

    <script src="https://kit.fontawesome.com/26504e4a1f.js" crossorigin="anonymous"></script>

</body>

</html>

3.style.css

@import url('https://fonts.googleapis.com/css2?family=Ubuntu&display=swap');

@import url('https://fonts.googleapis.com/css2?family=Varela+Round&display=swap');

body{

    background-color: antiquewhite;

}

\*{

    margin: 0;

    padding: 0;

}

nav{

    font-family: 'Ubuntu', sans-serif;

}

nav ul{

    display: flex;

    align-items: center;

    list-style-type: none;

    height: 65px;

    background-color: black;

    color: white;

}

nav ul li{

    padding: 0 12px;

}

.brand img{

    width: 44px;

    padding: 0 8px;

}

.brand {

    display: flex;

    align-items: center;

    font-weight: bolder;

    font-size: 1.3rem;

}

.container{

    min-height: 72vh;

    background-color: black;

    color: white;

   font-family: 'Varela Round', sans-serif;

   display: flex;

   margin: 23px auto;

   width: 70%;

   border-radius: 12px;

   padding: 34px;

   background-image: url('bg.jpg');

}

.bottom{

    position: sticky;

    bottom: 0;

    height: 130px;

    background-color: black;

    color: white;

    display: flex;

    justify-content: center;

    align-items: center;

    flex-direction: column;

}

.icons{

    margin-top: 14px;

}

.icons i{

    cursor: pointer;

}

#myProgressBar{

    width: 80vw;

    cursor: pointer;

}

.songItemContainer{

    margin-top: 74px;

}

.songItem{

    height: 50px;

    display: flex;

    background-color: white;

    color: black;

    margin: 12px 0;

    justify-content: space-between;

    align-items: center;

    border-radius: 34px;

}

.songItem img{

    width: 43px;

    margin: 0 23px;

    border-radius: 34px;

}

.timestamp{

    margin: 0 23px;

}

.timestamp i{

    cursor: pointer;

}

.songInfo{

    position: absolute;

    left: 10vw;

    font-family: 'Varela Round', sans-serif;

}

.songInfo img{

    opacity: 0;

    transition: opacity 0.4s ease-in;

}

@media only screen and (max-width: 1100px) {

    body {

      background-color: red;

    }

  }

4. java script

console.log("Welcome to Spotify");

// Initialize the Variables

let songIndex = 0;

let audioElement = new Audio('songs/1.mp3');

let masterPlay = document.getElementById('masterPlay');

let myProgressBar = document.getElementById('myProgressBar');

let gif = document.getElementById('gif');

let masterSongName = document.getElementById('masterSongName');

let songItems = Array.from(document.getElementsByClassName('songItem'));

let songs = [

    {songName: "Warriyo - Mortals [NCS Release]", filePath: "songs/1.mp3", coverPath: "covers/1.jpg"},

    {songName: "Cielo - Huma-Huma", filePath: "songs/2.mp3", coverPath: "covers/2.jpg"},

    {songName: "DEAF KEV - Invincible [NCS Release]-320k", filePath: "songs/3.mp3", coverPath: "covers/3.jpg"},

    {songName: "Different Heaven & EH!DE - My Heart [NCS Release]", filePath: "songs/4.mp3", coverPath: "covers/4.jpg"},

    {songName: "Janji-Heroes-Tonight-feat-Johnning-NCS-Release", filePath: "songs/5.mp3", coverPath: "covers/5.jpg"},

    {songName: "Rabba - Salam-e-Ishq", filePath: "songs/2.mp3", coverPath: "covers/6.jpg"},

    {songName: "Sakhiyaan - Salam-e-Ishq", filePath: "songs/2.mp3", coverPath: "covers/7.jpg"},

    {songName: "Bhula Dena - Salam-e-Ishq", filePath: "songs/2.mp3", coverPath: "covers/8.jpg"},

    {songName: "Tumhari Kasam - Salam-e-Ishq", filePath: "songs/2.mp3", coverPath: "covers/9.jpg"},

    {songName: "Na Jaana - Salam-e-Ishq", filePath: "songs/4.mp3", coverPath: "covers/10.jpg"},

]

songItems.forEach((element, i)=>{

    element.getElementsByTagName("img")[0].src = songs[i].coverPath;

    element.getElementsByClassName("songName")[0].innerText = songs[i].songName;

})

// Handle play/pause click

masterPlay.addEventListener('click', ()=>{

    if(audioElement.paused || audioElement.currentTime<=0){

        audioElement.play();

        masterPlay.classList.remove('fa-play-circle');

        masterPlay.classList.add('fa-pause-circle');

        gif.style.opacity = 1;

    }

    else{

        audioElement.pause();

        masterPlay.classList.remove('fa-pause-circle');

        masterPlay.classList.add('fa-play-circle');

        gif.style.opacity = 0;

    }

})

// Listen to Events

audioElement.addEventListener('timeupdate', ()=>{

    // Update Seekbar

    progress = parseInt((audioElement.currentTime/audioElement.duration)\* 100);

    myProgressBar.value = progress;

})

myProgressBar.addEventListener('change', ()=>{

    audioElement.currentTime = myProgressBar.value \* audioElement.duration/100;

})

const makeAllPlays = ()=>{

    Array.from(document.getElementsByClassName('songItemPlay')).forEach((element)=>{

        element.classList.remove('fa-pause-circle');

        element.classList.add('fa-play-circle');

    })

}

Array.from(document.getElementsByClassName('songItemPlay')).forEach((element)=>{

    element.addEventListener('click', (e)=>{

        makeAllPlays();

        songIndex = parseInt(e.target.id);

        e.target.classList.remove('fa-play-circle');

        e.target.classList.add('fa-pause-circle');

        audioElement.src = `songs/${songIndex+1}.mp3`;

        masterSongName.innerText = songs[songIndex].songName;

        audioElement.currentTime = 0;

        audioElement.play();

        gif.style.opacity = 1;

        masterPlay.classList.remove('fa-play-circle');

        masterPlay.classList.add('fa-pause-circle');

    })

})

document.getElementById('next').addEventListener('click', ()=>{

    if(songIndex>=9){

        songIndex = 0

    }

    else{

        songIndex += 1;

    }

    audioElement.src = `songs/${songIndex+1}.mp3`;

    masterSongName.innerText = songs[songIndex].songName;

    audioElement.currentTime = 0;

    audioElement.play();

    masterPlay.classList.remove('fa-play-circle');

    masterPlay.classList.add('fa-pause-circle');

})

document.getElementById('previous').addEventListener('click', ()=>{

    if(songIndex<=0){

        songIndex = 0

    }

    else{

        songIndex -= 1;

    }

    audioElement.src = `songs/${songIndex+1}.mp3`;

    masterSongName.innerText = songs[songIndex].songName;

    audioElement.currentTime = 0;

    audioElement.play();

    masterPlay.classList.remove('fa-play-circle');

    masterPlay.classList.add('fa-pause-circle');

})

**5. Project Objective**

* To design a responsive and interactive music player interface.
* To mimic the visual layout and core user interactions of Spotify.
* To apply front-end development skills to a real-world UI/UX clone.
* To understand music app design and improve development workflow using modern tools.

**6. Technologies Implemented**

* **HTML5** – For creating the basic structure of the application.
* **CSS3** – For styling the user interface and ensuring responsive design.
* **JavaScript** – For adding interactivity like play/pause functionality.

**.**  **Bootstrap** – For quick and responsive UI components.

**7. Development Process**

1. **Planning and Wireframing:**
   * Analyzed Spotify’s UI and planned the layout using simple wireframes.
2. **HTML Structure Creation:**
   * Divided the layout into header, sidebar, main content, and player sections.
3. **Styling with CSS:**
   * Used flexbox/grid for layout and transitions for hover effects.
4. **Adding Interactivity with JavaScript:**
   * Implemented play/pause logic, song switching, and progress bar updates.
5. **Testing & Debugging:**
   * Tested responsiveness and fixed layout glitches across devices.
6. **Polishing and Final Touches:**
   * Added fonts, icons, hover animations, and ensured mobile compatibility.

**8. Project Features**

* 🎵 Clean and modern UI similar to Spotify
* ▶️ Play/Pause functionality
* ⏮️ Next/Previous track buttons
* 🕒 Track progress bar
* 📁 Playlist section
* 🔍 Search bar (Static/Dummy)
* 📱 Fully responsive design for mobile and desktop

**9. Conclusion**

The Spotify Clone project helped in deepening my understanding of front-end web development by working on a real-world UI clone. It provided hands-on experience with layout design, responsive styling, and interactivity. Through this project, I improved my skills in HTML, CSS, and JavaScript while gaining confidence in building aesthetically pleasing and functional web applications. This clone can serve as a base for adding backend and real music APIs in future enhancements.