ABBOTTABAD UNIVERSITY OF SCIENCE AND TECHNOLOGY

DEPARTMENT: COMPUTER SCIENCE

SUBJECT: SOFTWARE CONSTRUCTION AND DEVELOPMENT

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Project name:

Clone Spotify

Executive Summary

This report provides an overview of the Spotify-inspired website, a platform that allows users to play music from curated playlists. The website offers an engaging music playback experience focused on playlists rather than individual song search.

Table of Contents

1.1 Introduction

The Spotify-inspired website aims to create a music-rich environment where users can enjoy curated playlists without the need for searching specific songs. The platform focuses on providing an immersive and hassle-free playlist-based music listening experience.

1.2 Playlist Playback

1.2.1 Playlist Selection

Users can browse and select from a variety of curated playlists based on genres, moods, and themes.

1.2.2 Song Playback

Once a playlist is chosen, users can play songs from the playlist in sequence. Playback controls include play, pause, and skip.

1.2.3 Continuous Listening

The website enables users to enjoy uninterrupted playback as songs flow seamlessly from one to another within the selected playlist.

1.3 User Experience

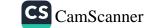The Spotify-inspired website emphasizes simplicity and convenience:

-you can play any music from playlist

-you can play any music in just one click

-we can resume our song from any place

-we can pause or start music at any time

- Minimalist design to focus on playlist enjoyment.

1.4 Technical Details

- Developed using HTML, CSS, and JavaScript.

- Implements responsive design for optimal viewing across devices.

1.5 Future Enhancements

The Spotify-inspired website holds potential for further refinement:

- Customizable playlists, allowing users to create and save their playlists.

- Integration with social platforms for playlist sharing and collaboration.

- Expansion of playlist offerings to cater to diverse musical tastes.

Html code:

```html
<!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>
```

```html
                    </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">
```

```html
                    <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>
```

Css code:

```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;
```

```css
}

*{
    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;
```

```css
    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;
```

```css
    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;
    }
  }
```

Javacsript code:

```javascript
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'));
```

```javascript
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
```

```javascript
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();
```

```javascript
        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');
})
```

Output screenshot:

Best of NCS - No Copyright Sounds

Warriyo - Mortals [NCS Release]	05:34	⏸
Cielo - Huma-Huma	05:34	▶
DEAF KEV - Invincible [NCS Release]-320k	05:34	▶
Different Heaven & EH!DE - My Heart [NCS Release]	05:34	▶
Janji-Heroes-Tonight-feat-Johnning-NCS-Release	05:34	▶
Rabba - Salam-e-Ishq	05:34	▶

Warriyo - Mortals [NCS Release]

⏮ ⏸ ⏭

Different Heaven & EH!DE - My Heart [NCS Release]	05:34	▶
Janji-Heroes-Tonight-feat-Johnning-NCS-Release	05:34	▶
Rabba - Salam-e-Ishq	05:34	▶
Sakhiyaan - Salam-e-Ishq	05:34	▶
Bhula Dena - Salam-e-Ishq	05:34	▶
Tumhari Kasam - Salam-e-Ishq	05:34	▶
Na Jaana - Salam-e-Ishq	05:34	▶

Warriyo - Mortals [NCS Release]

⏮ ⏸ ⏭