



UNIVERSITI MALAYSIA TERENGGANU

BACHELOR OF COMPUTER SCIENCE (MOBILE COMPUTING) WITH HONORS

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CSM3103 – FRONT-END PROGRAMMING

TITLE PROJECT: MUSIC PLAYER

Project Report

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Introduction

The Music Player App is a cutting-edge smartphone application designed to elevate the music listening experience. Our objective is to offer a feature-rich music player with seamless playback, extensive audio format support, and intuitive controls. Music enthusiasts seeking a reliable and versatile platform to organize and enjoy their music libraries will find everything they need in this app.

Problem Statement

- **Limited Support for Formats in Current Players:** Many existing music players only accommodate a limited number of audio formats, restricting users from accessing their entire music library, especially if they have files in less common formats like FLAC, OGG, or AIFF.
- **Poor Library Management:** Inadequate library management tools in current music players make it difficult for users to efficiently organize their music collections, resulting in limited options for creating playlists, modifying metadata, and managing tracks
- **Lack of Offline Playback Options:** Several music player apps require a constant internet connection for streaming or playing music, which poses a challenge for users when they are traveling or in areas with poor internet connectivity

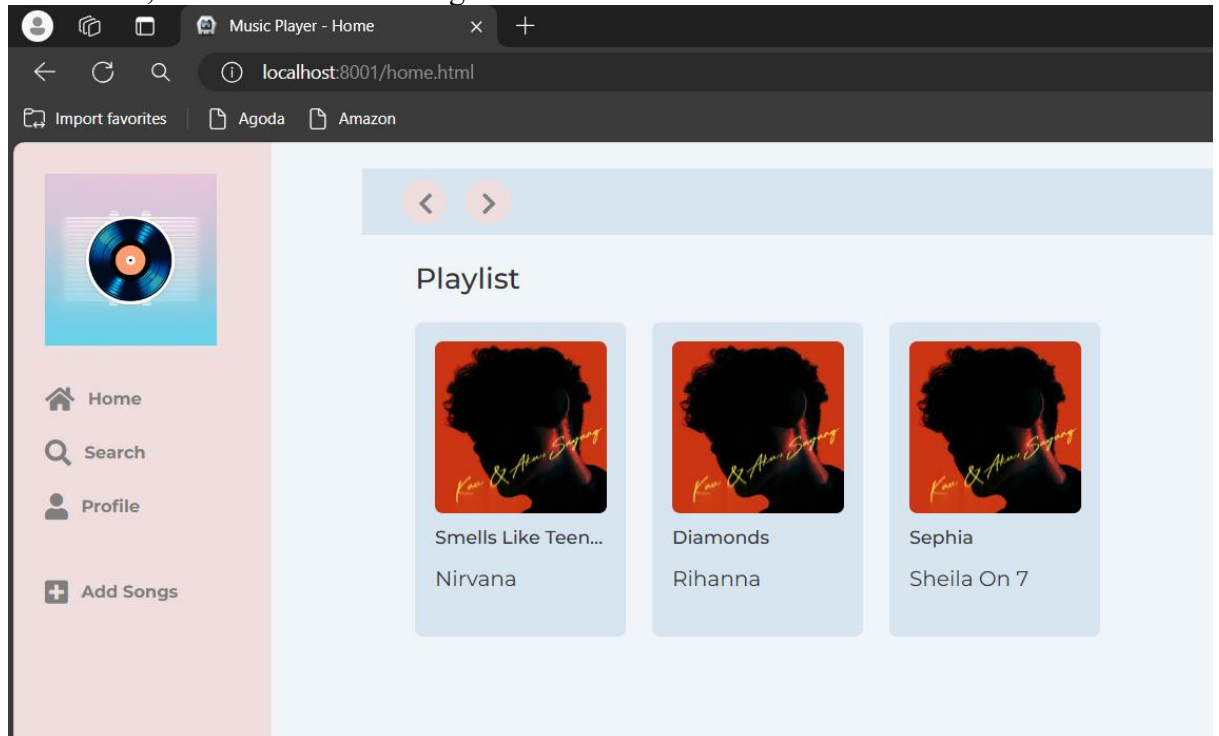
Objectives

- Develop a versatile music player application that addresses the common limitations of current music players.
- Aim to eliminate the need for users to convert their music files by providing support for a wide range of audio formats, ensuring audio quality preservation and enhanced user convenience.
- Robust library management features will be integrated to facilitate playlist creation, metadata editing, and efficient music collection management.
- The app will boast an intuitive and engaging user interface, promising a seamless and enjoyable user experience.
- Additionally, offline playback capabilities will be offered, enabling users to access and enjoy their music library without an internet connection, ensuring a reliable and fulfilling music experience anytime, anywhere.

App explanation

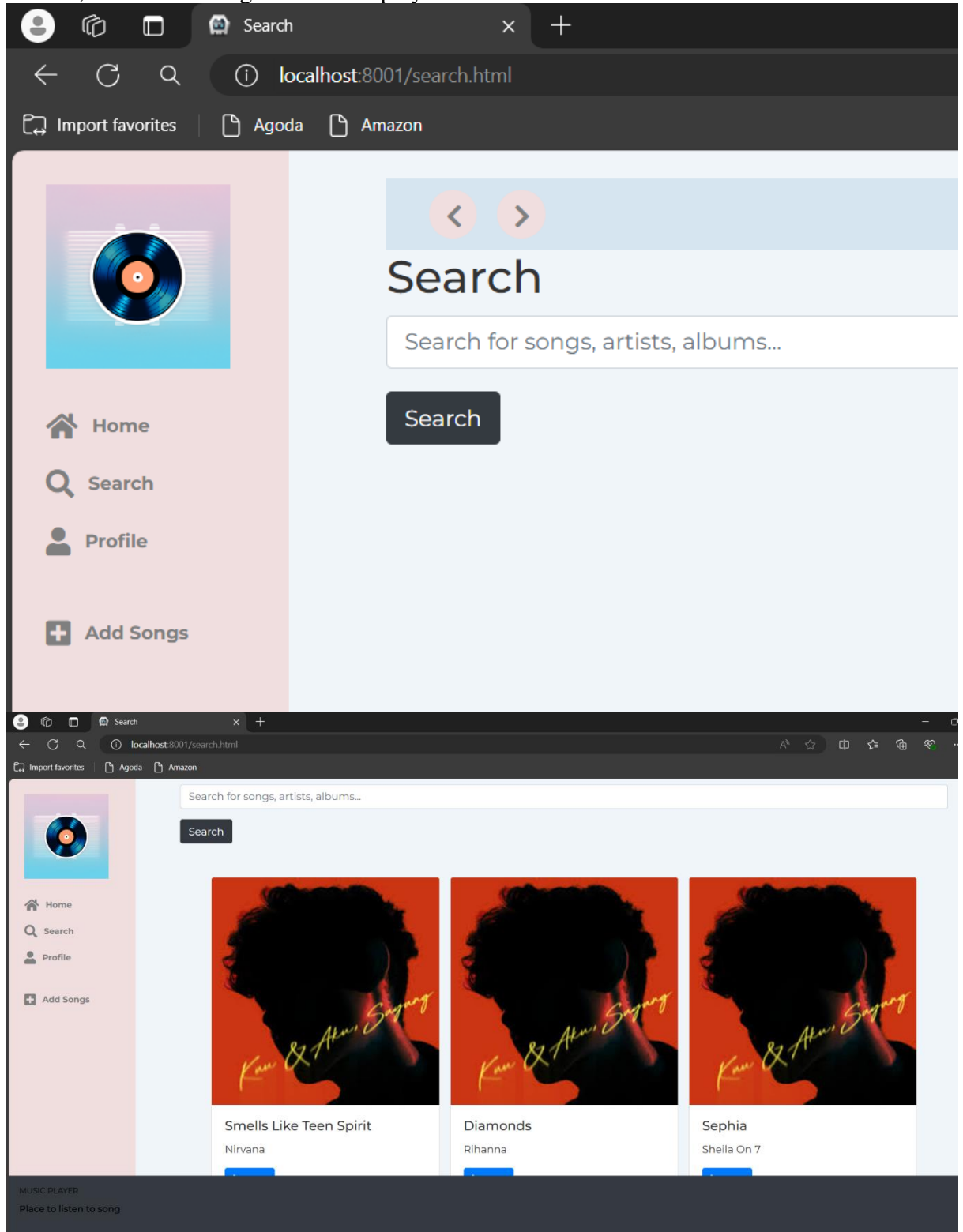
Home page

Every music that the user has added to their playlist is listed on this page. There is a grid arrangement for the songs. The sidebar, which has access to Home, Search, Profile, and Add Songs, allows users to move about the app. The navigation buttons, previous and next, are located at the top. An audio player that plays the chosen music when clicked is located at the bottom. By selecting "Add Songs" from the sidebar, users can add new songs.



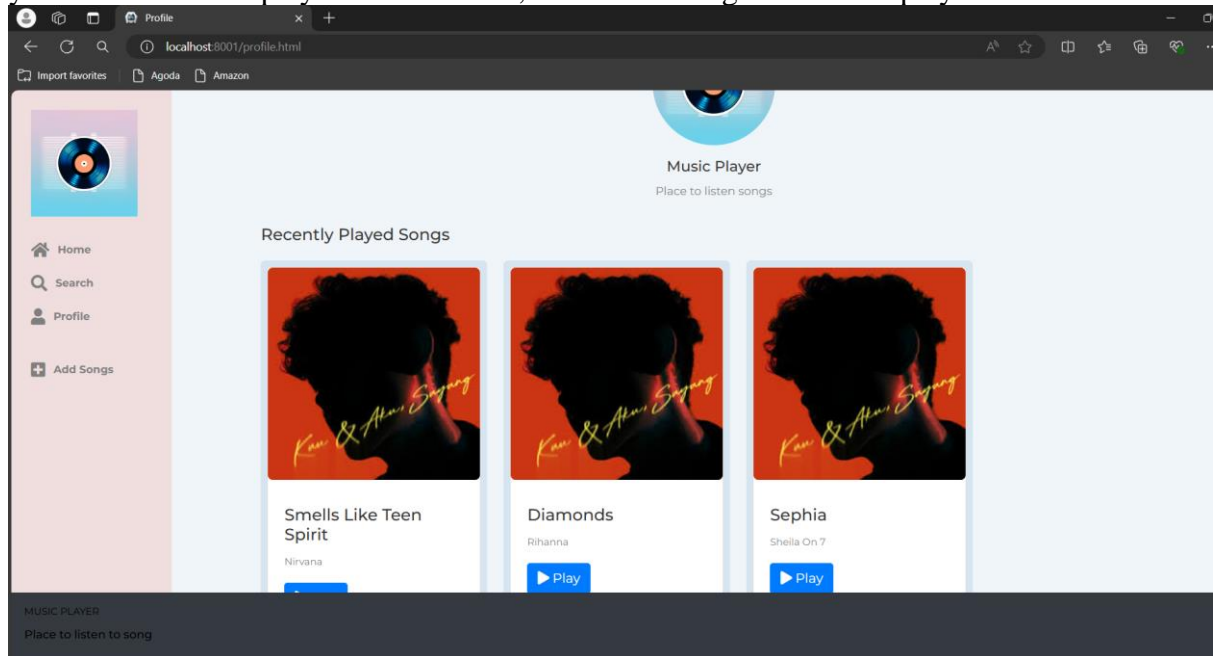
Search page

Users can look for songs, artists, or albums on this page. Navigation links to Home, Search, Profile, and Add Songs are available in the sidebar. To find songs, users can type search terms into the input field and press the search button. A grid layout is used to dynamically show the results. When you click the audio player at the bottom, the chosen song will start to play.



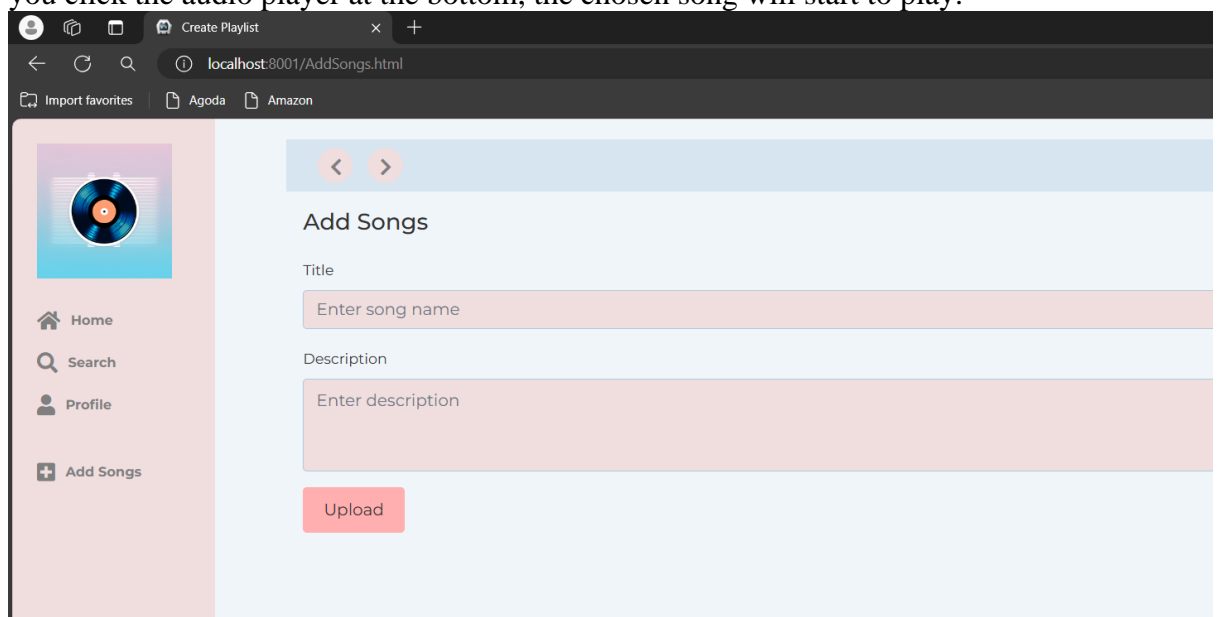
Profile page

Recently played songs and profile details are shown on this page for the user. Navigation links to Home, Search, Profile, and Add Songs are available in the sidebar. Using the previous and next buttons at the top, users can go back and forth. The user name, description, and profile photo are all included in the profile section. The songs that have recently been played are shown below in a grid format. When you click the audio player at the bottom, the chosen song will start to play.



AddSongs page

Recently played songs and profile details are shown on this page for the user. Navigation links to Home, Search, Profile, and Add Songs are available in the sidebar. Using the previous and next buttons at the top, users can go back and forth. The user name, description, and profile photo are all included in the profile section. The songs that have recently been played are shown below in a grid format. When you click the audio player at the bottom, the chosen song will start to play.



Coding

Home.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">
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css"
">
  <link rel="stylesheet" href="css/style.css">
  <link
href="https://fonts.googleapis.com/css2?family=Montserrat:ital,wght@0,100..900;1,100..900&display=swap" rel="stylesheet">
  <title>Music Player - Home</title>
</head>
<body>
  <div class="container-fluid">
    <div class="row">
      <div class="col-md-2 sidebar">
        <div class="logo">
          <a href="home.html">
            
          </a>
        </div>
        <div class="navigation">
          <ul class="list-unstyled">
            <li>
              <a href="home.html">
                <span class="fa fa-home"></span>
                <span>Home</span>
              </a>
            </li>
            <li>
              <a href="search.html">
                <span class="fa fa-search"></span>
                <span>Search</span>
              </a>
            </li>
            <li>
              <a href="profile.html">
                <span class="fa fa-user"></span>
                <span>Profile</span>
              </a>
            </li>
          </ul>
        </div>
      </div>
    </div>
  </div>
```



```

        </div>
        <div class="navigation mt-4">
            <ul class="list-unstyled">
                <li>
                    <a href="AddSongs.html">
                        <span class="fa fa-plus-square"></span>
                        <span>Add Songs</span>
                    </a>
                </li>
            </ul>
        </div>
    </div>
    <div class="col-md-10 main-container">
        <div class="topbar d-flex justify-content-between align-items-center py-2">
            <div class="prev-next-button">
                <a href="Home.html"></a>
                <button type="button" id="prevButton" class="btn btn-dark btn-circle"><span class="fa fa-chevron-left"></span></button>
                <button type="button" id="nextButton" class="btn btn-dark btn-circle"><span class="fa fa-chevron-right"></span></button>
            </div>
        </div>
        <div class="playlist">
            <h2>Playlist</h2>
            <div class="list d-flex flex-wrap">
                <!-- Dynamic content will be injected here -->
            </div>
        </div>
        <audio id="audioPlayer" controls class="d-none">
            <!-- Source will be dynamically injected -->
        </audio>
    </div>
</div>
<div class="preview fixed-bottom d-flex align-items-center justify-content-between bg-dark p-3">
    <div class="text">
        <h6>Music Player</h6>
        <p>Place to listen to song</p>
    </div>
</div>
<script src="https://kit.fontawesome.com/23cecef777.js"
crossorigin="anonymous"></script>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"
></script>

```



```

        <span class="fa fa-user"></span>
        <span>Profile</span>
      </a>
    </li>
  </ul>
</div>
<div class="navigation mt-4">
  <ul class="list-unstyled">
    <li>
      <a href="AddSongs.html">
        <span class="fa fa-plus-square"></span>
        <span>Add Songs</span>
      </a>
    </li>
  </ul>
</div>
</div>
<div class="col-md-10 main-container">
  <div class="topbar d-flex justify-content-between align-items-
center py-2">
    <div class="prev-next-button">
      <button type="button" id="prevButton" class="btn btn-
dark btn-circle"><span class="fa fa-chevron-left"></span></button>
      <button type="button" id="nextButton" class="btn btn-
dark btn-circle"><span class="fa fa-chevron-right"></span></button>
    </div>
  </div>
  <div class="search">
    <h2>Search</h2>
    <form id="searchForm" class="mb-4">
      <div class="form-group">
        <input type="text" id="searchInput" class="form-
control" placeholder="Search for songs, artists, albums...">
      </div>
      <button type="submit" class="btn btn-
dark">Search</button>
    </form>
    <div class="search-results">
      <div class="list d-flex flex-wrap">
        <!-- Dynamic content will be injected here -->
      </div>
    </div>
    <audio id="audioPlayer" controls class="d-none">
      <!-- Source will be dynamically injected -->
    </audio>
  </div>
</div>

```

```

        <div class="preview fixed-bottom d-flex align-items-center
justify-content-between bg-dark p-3">
            <div class="text">
                <h6>Music Player</h6>
                <p>Place to listen to song</p>
            </div>
        </div>
    </div>
</div>
<audio id="audioPlayer" class="d-none" controls></audio>
<script src="https://kit.fontawesome.com/23cecef777.js"
crossorigin="anonymous"></script>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"
></script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"><
/script>
<script src="js/Songs.js"></script>
<script src="js/search.js"></script>
</body>
</html>

```

Profile.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
">
    <link rel="stylesheet" href="css/style.css">
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:wght@100..900&displa
y=swap" rel="stylesheet">
    <title>Profile</title>
</head>
<body>
    <div class="container-fluid">
        <div class="row">
            <div class="col-md-2 sidebar">
                <div class="logo">
                    <a href="home.html">
                        
                    </a>
                </div>
            </div>

```

```

        <div class="navigation">
            <ul class="list-unstyled">
                <li>
                    <a href="home.html">
                        <span class="fa fa-home"></span>
                        <span>Home</span>
                    </a>
                </li>
                <li>
                    <a href="search.html">
                        <span class="fa fa-search"></span>
                        <span>Search</span>
                    </a>
                </li>
                <li>
                    <a href="profile.html">
                        <span class="fa fa-user"></span>
                        <span>Profile</span>
                    </a>
                </li>
            </ul>
        </div>
        <div class="navigation mt-4">
            <ul class="list-unstyled">
                <li>
                    <a href="AddSongs.html">
                        <span class="fa fa-plus-square"></span>
                        <span>Add Songs</span>
                    </a>
                </li>
            </ul>
        </div>
    </div>
    <div class="col-md-10 main-container">
        <div class="topbar d-flex justify-content-between align-items-center py-2">
            <div class="prev-next-button">
                <button type="button" class="btn btn-dark btn-circle"><a href="javascript:history.back()"><span class="fa fa-chevron-left"></span></a></button>
                <button type="button" class="btn btn-dark btn-circle"><a href="javascript:history.forward()"><span class="fa fa-chevron-right"></span></a></button>
            </div>
        </div>
        <div class="profile">
            <div class="profile-info">

```

```

        <h4>Music Player</h4>
        <p>Place to listen songs</p>
    </div>
    <div class="user-playlists">
        <h3>Recently Played Songs</h3>
        <div class="list d-flex flex-wrap">
            <!-- Dynamic content will be injected here -->
        </div>
    </div>
</div>
<audio id="audioPlayer" controls class="d-none">
    <!-- Source will be dynamically injected -->
</audio>
</div>
</div>
<div class="preview fixed-bottom d-flex align-items-center justify-
content-between bg-dark p-3">
    <div class="text">
        <h6>Music Player</h6>
        <p>Place to listen to song</p>
    </div>
</div>
<script src="https://kit.fontawesome.com/23cecef777.js"
crossorigin="anonymous"></script>
<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"
></script>
<script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"><
/script>
    <script src="js/Songs.js"></script>
    <script src="js/search.js"></script>
    <script src="js/profile.js"></script>
</body>
</html>

```

AddSongs.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">

```

```

    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css
">
    <link rel="stylesheet" href="css/style.css">
    <link
href="https://fonts.googleapis.com/css2?family=Montserrat:ital,wght@0,100..900
;1,100..900&display=swap" rel="stylesheet">
    <title>Create Playlist</title>
</head>
<body>
    <div class="container-fluid">
        <div class="row">
            <div class="col-md-2 sidebar">
                <div class="logo">
                    <a href="home.html">
                        
                    </a>
                </div>
                <div class="navigation">
                    <ul class="list-unstyled">
                        <li>
                            <a href="home.html">
                                <span class="fa fa-home"></span>
                                <span>Home</span>
                            </a>
                        </li>
                        <li>
                            <a href="search.html">
                                <span class="fa fa-search"></span>
                                <span>Search</span>
                            </a>
                        </li>
                        <li>
                            <a href="profile.html">
                                <span class="fa fa-user"></span>
                                <span>Profile</span>
                            </a>
                        </li>
                    </ul>
                </div>
                <div class="navigation mt-4">
                    <ul class="list-unstyled">
                        <li>
                            <a href="AddSongs.html">
                                <span class="fa fa-plus-square"></span>
                                <span>Add Songs</span>
                            </a>
                        </li>
                    </ul>
                </div>
            </div>

```

```

        </ul>
      </div>
    </div>
    <div class="col-md-10 main-container">
      <div class="topbar d-flex justify-content-between align-items-center py-2">
        <div class="prev-next-button">
          <button type="button" class="btn btn-dark btn-circle"><span class="fa fa-chevron-left"></span></button>
          <button type="button" class="btn btn-dark btn-circle"><span class="fa fa-chevron-right"></span></button>
        </div>
      </div>
      <div class="create-playlist-form p-3">
        <h2>Add Songs</h2>
        <form id="playlistForm">
          <div class="form-group">
            <label for="playlistName">Title</label>
            <input type="text" class="form-control"
id="playlistName" placeholder="Enter song name">
          </div>
          <div class="form-group">
            <label
for="playlistDescription">Description</label>
            <textarea class="form-control"
id="playlistDescription" rows="3" placeholder="Enter description"></textarea>
          </div>
          <button type="submit" class="btn btn-primary">Upload</button>
        </form>
        <div id="playlistResult" class="mt-4"></div>
      </div>
    </div>
  </div>
  <script type="module">
    // Import the functions you need from the SDKs you need
    import { initializeApp } from
"https://www.gstatic.com/firebasejs/10.12.2/firebase-app.js";
    import { getAnalytics } from
"https://www.gstatic.com/firebasejs/10.12.2/firebase-analytics.js";
    import { getFirestore, doc, setDoc } from
"https://www.gstatic.com/firebasejs/10.12.2/firebase-firestore.js";
    import { getStorage, ref, uploadBytes, getDownloadURL } from
"https://www.gstatic.com/firebasejs/10.12.2/firebase-storage.js";

    // Your web app's Firebase configuration
    const firebaseConfig = {

```



```

    apiKey: "AIzaSyApj9RnhrXdLTCRMAXgeV1iueppQkKs-Wo",
    authDomain: "assfront-2d9a2.firebaseio.com",
    databaseURL: "https://assfront-2d9a2-default-rtdb.firebaseio.com",
    projectId: "assfront-2d9a2",
    storageBucket: "assfront-2d9a2.appspot.com",
    messagingSenderId: "910148150441",
    appId: "1:910148150441:web:2307a4979433a62954f5b8",
    measurementId: "G-DTSJWCG91Z"
  };

  // Initialize Firebase
  const app = initializeApp(firebaseConfig);
  const analytics = getAnalytics(app);
  const db = getFirestore(app);
  const storage = getStorage(app);

  // Add song to Firestore
  document.getElementById('playlistForm').addEventListener('submit',
async (e) => {
    e.preventDefault();
    const title = document.getElementById('playlistName').value;
    const description =
document.getElementById('playlistDescription').value;
    const songFile = document.getElementById('songFile').files[0];

    if (songFile) {
      const storageRef = ref(storage, 'songs/' + songFile.name);
      try {
        await uploadBytes(storageRef, songFile);
        const downloadURL = await getDownloadURL(storageRef);

        await setDoc(doc(db, "playlists", title), {
          title: title,
          description: description,
          songURL: downloadURL
        });

        document.getElementById('playlistResult').innerHTML =
`<div class="alert alert-success">Song added successfully</div>`;
      } catch (error) {
        document.getElementById('playlistResult').innerHTML =
`<div class="alert alert-danger">Error adding song: ${error}</div>`;
      }
    } else {
      document.getElementById('playlistResult').innerHTML = `<div
class="alert alert-warning">Please select a song file to upload</div>`;
    }
  });

```

```

    </script>
    <script src="https://kit.fontawesome.com/23cecef777.js"
crossorigin="anonymous"></script>
    <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
    <script
src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.5.4/dist/umd/popper.min.js"
></script>
    <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.js"><
/script>
    <script src="js/Songs.js"></script>
    <script src="js/search.js"></script>
</body>
</html>

```

Style.css

```

/* General Reset and Custom Styles */
* {
    padding: 0;
    margin: 0;
    box-sizing: border-box;
}

body {
    background-color: #f0f5f9; /* Light blue background */
    font-family: "Montserrat", sans-serif;
    color: #333333; /* Dark gray text for contrast */
    line-height: 1.6;
}

/* Sidebar Styles */
.sidebar {
    position: fixed;
    left: 0;
    top: 0;
    bottom: 0;
    width: 196px;
    background-color: #f0dedf; /* Peach sidebar */
    padding: 24px;
}

.sidebar .logo img {
    width: 130px;
}

.sidebar .navigation ul {
    list-style: none;
    margin-top: 20px;
}

```

```
}

.sidebar .navigation ul li {
  padding: 10px 0;
}

.sidebar .navigation ul li a {
  color: #7f7f7f; /* Medium gray text */
  text-decoration: none;
  font-weight: bold;
  font-size: 13px;
  display: flex;
  align-items: center;
}

.sidebar .navigation ul li a:hover,
.sidebar .navigation ul li a:active,
.sidebar .navigation ul li a:focus {
  color: #333333; /* Dark gray text on hover */
}

.sidebar .navigation ul li a:hover .fa,
.sidebar .navigation ul li a:active .fa,
.sidebar .navigation ul li a:focus .fa {
  color: #7f7f7f; /* Medium gray icon on hover */
}

.sidebar .navigation ul li .fa {
  font-size: 20px;
  margin-right: 10px;
}

/* Main Container Styles */
.main-container {
  margin-left: 245px;
  margin-bottom: 100px;
  padding: 20px;
}

.topbar {
  display: flex;
  justify-content: space-between;
  background-color: #d6e5f0; /* Light blue top bar */
  padding: 14px 30px;
}

.topbar .prev-next-button button {
  color: #7f7f7f; /* Medium gray text */
}
```

```

    cursor: pointer;
    width: 34px;
    height: 34px;
    border-radius: 100%;
    font-size: 18px;
    border: none;
    background-color: #f0dedf; /* Peach button */
    margin-right: 10px;
}

/* Playlist Styles */
.playlist {
    padding: 20px 40px;
}

.playlist h2 {
    font-size: 22px;
    margin-bottom: 20px;
}

.playlist .list {
    display: flex;
    flex-wrap: wrap;
    gap: 20px;
}

.playlist .list .item {
    min-width: 140px;
    width: 160px;
    padding: 15px;
    background-color: #d6e5f0; /* Light blue item background */
    border-radius: 6px;
    cursor: pointer;
    transition: background-color ease 0.4s;
    overflow: hidden;
}

.playlist .list .item:hover {
    background-color: #afc9dc; /* Lighter blue hover background */
}

.playlist .list .item img {
    width: 100%;
    border-radius: 6px;
    margin-bottom: 10px;
}

.playlist .list .item .play {

```

```
    position: relative;
}

.playlist .list .item .play .fa {
    position: absolute;
    right: 10px;
    top: -60px;
    padding: 18px;
    background-color: #ffafaf; /* Peach play button */
    border-radius: 100%;
    opacity: 0;
    transition: opacity ease 0.4s, transform ease 0.4s;
}

.playlist .list .item:hover .play .fa {
    opacity: 1;
    transform: translateY(-20px);
}

.playlist .list .item h4 {
    font-size: 14px;
    margin-bottom: 10px;
    white-space: nowrap;
    overflow: hidden;
    text-overflow: ellipsis;
    color: #333333; /* Dark gray text */
}

/* Preview Styles */
.preview {
    position: fixed;
    bottom: 0;
    left: 0;
    right: 0;
    background-color: #d6e5f0; /* Light blue preview bar */
    padding: 15px 40px;
    display: flex;
    justify-content: space-between;
}

.preview h6 {
    color: black;
    text-transform: uppercase;
    font-weight: 400;
    font-size: 12px;
    margin-bottom: 10px;
}
```

```
.preview p {
    color: black;
    font-size: 14px;
    font-weight: 500;
}

/* Search Bar Styles */
.search-bar {
    background-color: #d6e5f0; /* Light blue search bar */
    padding: 10px 30px;
}

.search-bar input {
    background-color: #f0dedf; /* Peach input background */
    border: 1px solid #afc9dc; /* Lighter blue border */
    color: #333333; /* Dark gray text */
    padding: 8px 12px;
    border-radius: 4px;
    width: 100%;
}

/* Search Results Styles */
.search-results {
    padding: 20px 40px;
}

.search-results h2 {
    font-size: 22px;
    margin-bottom: 20px;
}

/* Profile Styles */
.profile {
    padding: 20px 40px;
}

.profile .profile-info {
    text-align: center;
}

.profile .profile-info img {
    width: 150px;
    border-radius: 50%;
}

.profile .profile-info h4 {
    font-size: 18px;
    margin-top: 15px;
}
```

```
    color: #333333; /* Dark gray text */
}

.profile .profile-info p {
    font-size: 14px;
    color: #7f7f7f; /* Medium gray text */
}

.profile .user-playlists {
    margin-top: 30px;
}

.profile .user-playlists h3 {
    font-size: 20px;
    margin-bottom: 20px;
    color: #333333; /* Dark gray text */
}

.profile .user-playlists .list {
    display: flex;
    flex-wrap: wrap;
    gap: 20px;
}

.profile .user-playlists .item {
    min-width: 140px;
    width: 160px;
    padding: 15px;
    background-color: #d6e5f0; /* Light blue item background */
    border-radius: 6px;
    cursor: pointer;
    transition: background-color ease 0.4s;
    overflow: hidden;
}

.profile .user-playlists .item:hover {
    background-color: #afc9dc; /* Lighter blue hover background */
}

.profile .user-playlists .item img {
    width: 100%;
    border-radius: 6px;
    margin-bottom: 10px;
}

.profile .user-playlists .item h4 {
    font-size: 14px;
    margin-bottom: 10px;
}
```

```
white-space: nowrap;
overflow: hidden;
text-overflow: ellipsis;
color: #333333; /* Dark gray text */
}

.profile .user-playlists .item p {
  font-size: 12px;
  color: #7f7f7f; /* Medium gray text */
}

/* Add Songs Styles */
.create-playlist-form {
  padding: 20px 40px;
}

.create-playlist-form h2 {
  font-size: 22px;
  margin-bottom: 20px;
}

.create-playlist-form .form-group {
  margin-bottom: 15px;
}

.create-playlist-form label {
  font-size: 14px;
  color: #333333; /* Dark gray text */
}

.create-playlist-form input,
.create-playlist-form textarea {
  background-color: #f0dedf; /* Peach input background */
  border: 1px solid #afc9dc; /* Lighter blue border */
  color: #333333; /* Dark gray text */
  padding: 8px 12px;
  border-radius: 4px;
  width: 100%;
}

.create-playlist-form button {
  background-color: #ffafaf; /* Peach button */
  color: #333333; /* Dark gray text */
  border: none;
  padding: 10px 20px;
  border-radius: 4px;
  cursor: pointer;
}
```



```
.create-playlist-form button:hover {
  background-color: #ff958d; /* Darker peach on hover */
}
```

Song.js

```
document.addEventListener('DOMContentLoaded', function() {
  const playlist = [
    { title: 'Smells Like Teen Spirit', artist: 'Nirvana', src:
'songs/Nirvana - Smells Like Teen Spirit (Official Music Video).mp3', cover:
'img/albumcover.jpg' },
    { title: 'Diamonds', artist: 'Rihanna', src: 'songs/Rihanna -
Diamonds.mp3', cover: 'img/albumcover.jpg' },
    { title: 'Sephia', artist: 'Sheila On 7', src: 'songs/Sheila On 7 -
Sephia.mp3', cover: 'img/albumcover.jpg' }
  ];

  const audioPlayer = document.getElementById('audioPlayer');
  const playlistContainer = document.querySelector('.playlist .list');
  const previewText = document.querySelector('.preview .text p');
  let currentSongIndex = 0;

  function loadPlaylist() {
    playlist.forEach((song, index) => {
      const item = document.createElement('div');
      item.classList.add('item');
      item.innerHTML = `
        
        <h4>${song.title}</h4>
        <p>${song.artist}</p>
        <div class="play" data-index="${index}"><span class="fa fa-
play"></span></div>
      `;
      playlistContainer.appendChild(item);
    });

    document.querySelectorAll('.play').forEach(playButton => {
      playButton.addEventListener('click', function() {
        currentSongIndex = parseInt(this.dataset.index);
        playSong();
      });
    });
  }

  function playSong() {
    const song = playlist[currentSongIndex];
    audioPlayer.src = song.src;
    audioPlayer.classList.remove('d-none');
```

```

        audioPlayer.play();
        previewText.innerHTML = `${song.title} by ${song.artist}`;
    }

    document.getElementById('prevButton').addEventListener('click', function() {
        if (currentSongIndex > 0) {
            currentSongIndex--;
            playSong();
        }
    });

    document.getElementById('nextButton').addEventListener('click', function() {
        if (currentSongIndex < playlist.length - 1) {
            currentSongIndex++;
            playSong();
        }
    });

    loadPlaylist();
});

```

Search.js

```

document.addEventListener('DOMContentLoaded', function() {
    const searchForm = document.getElementById('searchForm');
    const searchInput = document.getElementById('searchInput');
    const searchResultsContainer = document.querySelector('.search-results
.list');
    const audioPlayer = document.getElementById('audioPlayer');
    const previewText = document.querySelector('.preview .text p');

    // Sample data to simulate a song database
    const songDatabase = [
        { title: 'Smells Like Teen Spirit', artist: 'Nirvana', src:
'songs/Nirvana - Smells Like Teen Spirit (Official Music Video).mp3', cover:
'img/albumcover.jpg' },
        { title: 'Diamonds', artist: 'Rihanna', src: 'songs/Rihanna -
Diamonds.mp3', cover: 'img/albumcover.jpg' },
        { title: 'Sephia', artist: 'Sheila On 7', src: 'songs/Sheila On 7 -
Sephia.mp3', cover: 'img/albumcover.jpg' }
    ];

    searchForm.addEventListener('submit', function(event) {
        event.preventDefault();
        const query = searchInput.value.toLowerCase();
        searchResultsContainer.innerHTML = '';

        const results = songDatabase.filter(song =>
            song.title.toLowerCase().includes(query) ||

```

```

        song.artist.toLowerCase().includes(query)
    );

    if (results.length > 0) {
        results.forEach(song => {
            const item = document.createElement('div');
            item.classList.add('item', 'col-md-4', 'p-2'); // Ensure
consistent size
            item.innerHTML = `
                <div class="card">
                    
                    <div class="card-body">
                        <h5 class="card-title">${song.title}</h5>
                        <p class="card-text">${song.artist}</p>
                        <button class="btn btn-primary play" data-
src="${song.src}"><span class="fa fa-play"></span> Play</button>
                    </div>
                </div>
            `;
            searchResultsContainer.appendChild(item);
        });

        document.querySelectorAll('.play').forEach(playButton => {
            playButton.addEventListener('click', function() {
                const src = this.dataset.src;
                playSong(src, this.closest('.card-
body').querySelector('.card-title').innerText);
            });
        });
    } else {
        searchResultsContainer.innerHTML = '<p>No results found</p>';
    }
});

function playSong(src, title) {
    audioPlayer.src = src;
    audioPlayer.classList.remove('d-none');
    audioPlayer.play();
    previewText.innerHTML = `Playing ${title}`;
}
});

```

Profile.js

```

document.addEventListener('DOMContentLoaded', function() {
    const recentlyPlayed = [

```

```

        { title: 'Smells Like Teen Spirit', artist: 'Nirvana', src:
'songs/Nirvana - Smells Like Teen Spirit (Official Music Video).mp3', cover:
'img/albumcover.jpg' },
        { title: 'Diamonds', artist: 'Rihanna', src: 'songs/Rihanna -
Diamonds.mp3', cover: 'img/albumcover.jpg' },
        { title: 'Sephia', artist: 'Sheila On 7', src: 'songs/Sheila On 7 -
Sephia.mp3', cover: 'img/albumcover.jpg' }
    ];

    const playlistContainer = document.querySelector('.user-playlists .list');
    const audioPlayer = document.getElementById('audioPlayer');
    const previewText = document.querySelector('.preview .text p');

    function loadRecentlyPlayed() {
        recentlyPlayed.forEach((song, index) => {
            const item = document.createElement('div');
            item.classList.add('item', 'col-md-3', 'p-2'); // Adjust the size
of each item
            item.innerHTML = `
                <div class="card">
                    
                    <div class="card-body">
                        <h5 class="card-title">${song.title}</h5>
                        <p class="card-text">${song.artist}</p>
                        <button class="btn btn-primary play" data-
index="${index}"><span class="fa fa-play"></span> Play</button>
                    </div>
                </div>
            `;
            playlistContainer.appendChild(item);
        });

        document.querySelectorAll('.play').forEach(playButton => {
            playButton.addEventListener('click', function() {
                const index = parseInt(this.dataset.index);
                playSong(recentlyPlayed[index]);
            });
        });
    }

    function playSong(song) {
        audioPlayer.src = song.src;
        audioPlayer.classList.remove('d-none');
        audioPlayer.play();
        previewText.innerHTML = `Playing ${song.title}`;
    }

```

```
loadRecentlyPlayed();  
});
```

Link GitHub

https://github.com/Shazrul-Izzuan/S67250_AssFront.git