

Front-End UI/UX Mini Project

Project Submission Template

1. Title Page

- **Project Title:** *Music Playlist Organizer*
- **Submitted By:**
 - Team Members- *SAHASRA T*
JOEL THOMAS MARIO J
CHRIS DERICK QUADROS
 - Roll Number – *2463048*
2463029
2463015
 - College Email Id-
-sahasra.t@btech.christuniversity.in
-joel.thomasmario@btech.christuniversity.in
-chris.derick@btech.christuniversity.in
- **Course:** *UI/UX Design Fundamentals*
- **Instructor Name:** *Dhiraj*
- **Institution:** *Christ University*
- **Date of Submission:** *26/09/2025*

2. Abstract

This project is a front-end web application designed to help users organize, browse, and manage their music playlists efficiently. Built using HTML, CSS, Bootstrap, and jQuery, the platform allows users to explore playlists, filter them by genre, artist, or duration, and view complete track lists. It emphasizes a responsive dark-themed design, ensuring smooth navigation across devices. The project demonstrates UI/UX best practices by combining clean layouts, interactivity, and accessibility for a modern music experience.

3. Objectives

- Build an interactive playlist platform with filtering and browsing capabilities.
- Provide a playlist listing interface with cover images and short descriptions.
- Implement a detailed playlist page showing tracklists, duration, and management options.
- Design a responsive and engaging interface for both desktop and mobile users.

4. Scope of the Project

- Front-End Focused: Only UI and interactivity; no backend integration.
- Static Content: Playlists and tracks are preloaded with sample data.
- Technologies: HTML, CSS, Bootstrap, and jQuery are used.
- Purpose: To serve as a prototype for a future fully functional music playlist application.

5. Tools & Technologies Used

Tool/Technology	Purpose
HTML5	Markup and content structure
CSS3	Styling and layout responsive
VS Code	Code editor
Bootstrap 5	Responsive grid system, UI components (cards, carousels, navbar)
jQuery	Simplified DOM manipulation, event handling
VS code	Code editor

6. HTML Structure Overview

The structure uses semantic HTML tags and is divided into distinct sections, each with a unique ID for navigation.

- Navbar: A fixed-top dark navigation bar with brand identity.
- Playlist Grid: A responsive grid displaying playlists with covers, titles, and descriptions.
- Search & Filters: Dropdowns and search bar for filtering by genre, artist, and duration.
- Details View: Displays selected playlist with tracklist, durations, and management options.

7. CSS Styling Strategy

The website's styling is primarily handled by Bootstrap's default styles with additional custom CSS.

- Dark Theme: Background in black with cards styled in deep gray for contrast.
- Custom Classes: `.playlist-card`, `.track list-item`, `.badge-genre`.
- Hover Effects: Smooth shadow and transform for interactivity.
- Responsive Design: Optimized for both mobile and desktop with Bootstrap grid.

8. Key Features

Feature	Description
Playlist Listing	It includes Cover images, titles, descriptions, and duration info.
Search & Filter Functionality	Filter playlists by genre, artist, or duration.
Playlist Details Page	Full tracklist with song info, duration, play, edit, and remove options.
Responsive Design	Seamless navigation on desktop and mobile using Bootstrap.

9. Challenges Faced & Solutions

Challenge	Solution
Implementing multiple filters together	Created combined logic in jQuery to evaluate search, genre, artist, and duration simultaneously.
Track list re-rendering after song removal	Implemented automatic recalculation of duration and dynamic re-render.
Balancing dark theme readability	Used high-contrast text and Bootstrap alert utilities for warnings and messages.

10. Outcome

- Delivered a functional front-end prototype of a playlist organizer.
- Showcased UI/UX design concepts such as hierarchy, readability, and consistency.
- Built a responsive music web application that adapts seamlessly across devices.

11. Future Enhancements

- Integrate real audio playback for tracks.
- Implement live editing of songs and playlists.
- Connect with a backend database/API for persistent storage.
- Extend as a Progressive Web App (PWA) for offline usability.

12. Sample Code

```
<!-- Attractions -->
<section id="attractions">
  <div class="container">
    <h2 class="text-center">Top Attractions</h2>
    <div class="row mt-4 g-4"> <!-- g-4 adds equal spacing -->
      <div class="col-md-4">
        
        <h5 class="mt-2">Edinburgh Castle</h5>
        <p>Historic fortress overlooking the city.</p>
      </div>
      <div class="col-md-4">
        
        <h5 class="mt-2">Royal Mile</h5>
        <p>Cobblestone street connecting the castle and Holyrood Palace.</p>
      </div>
      <div class="col-md-4">
        
        <h5 class="mt-2">Arthur's Seat</h5>
        <p>Ancient volcano offering stunning city views.</p>
      </div>
    </div>
  </div>
</div>
```

```
<!-- Hero Section -->
<div class="hero">
  <div>
    <h1>Welcome to Edinburgh</h1>
    <p class="lead">Scotland's historic capital filled with castles, culture, and charm.</p>
  </div>
</div>

<!-- Scroll Nav (appears after hero) -->
<nav id="scrollNav" class="navbar navbar-expand-lg navbar-dark bg-dark">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Edinburgh</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse justify-content-end" id="navbarNav">
      <ul class="navbar-nav">
        <li class="nav-item"><a class="nav-link" href="#attractions">Attractions</a></li>
        <li class="nav-item"><a class="nav-link" href="#restaurants">Restaurants</a></li>
        <li class="nav-item"><a class="nav-link" href="#things">Things to Do</a></li>
        <li class="nav-item"><a class="nav-link" href="#events">Events</a></li>
        <li class="nav-item"><a class="nav-link" href="#contact">Contact</a></li>
      </ul>
    </div>
  </div>
```

```

/* Big banner box with background image */
.events-bg {
  position: relative;
  background: url("https://plus.unsplash.com/premium_photo-1699566448247-1627bee256d0?fm=jpg&q=60&w=3000&ixlib=
  | | | | no-repeat center center/cover;

  border-radius: 16px;
  padding: 80px 50px; /* makes the box bigger */
  min-height: 500px;
  color: white;
  display: flex;
  align-items: center;
}

/* Event list styling */
.event-list {
  list-style: disc;
  font-size: 1.2rem;
  line-height: 1.8;
  background: rgba(0,0,0,0.5); /* optional transparent overlay for readability */
  padding: 30px 40px;
  border-radius: 12px;
  max-width: 700px;
}

```

```

<!-- Things to Do Carousel -->
<section id="things" class="py-5">
  <div class="container">
    <h2 class="text-center mb-4">Things to Do in Edinburgh</h2>

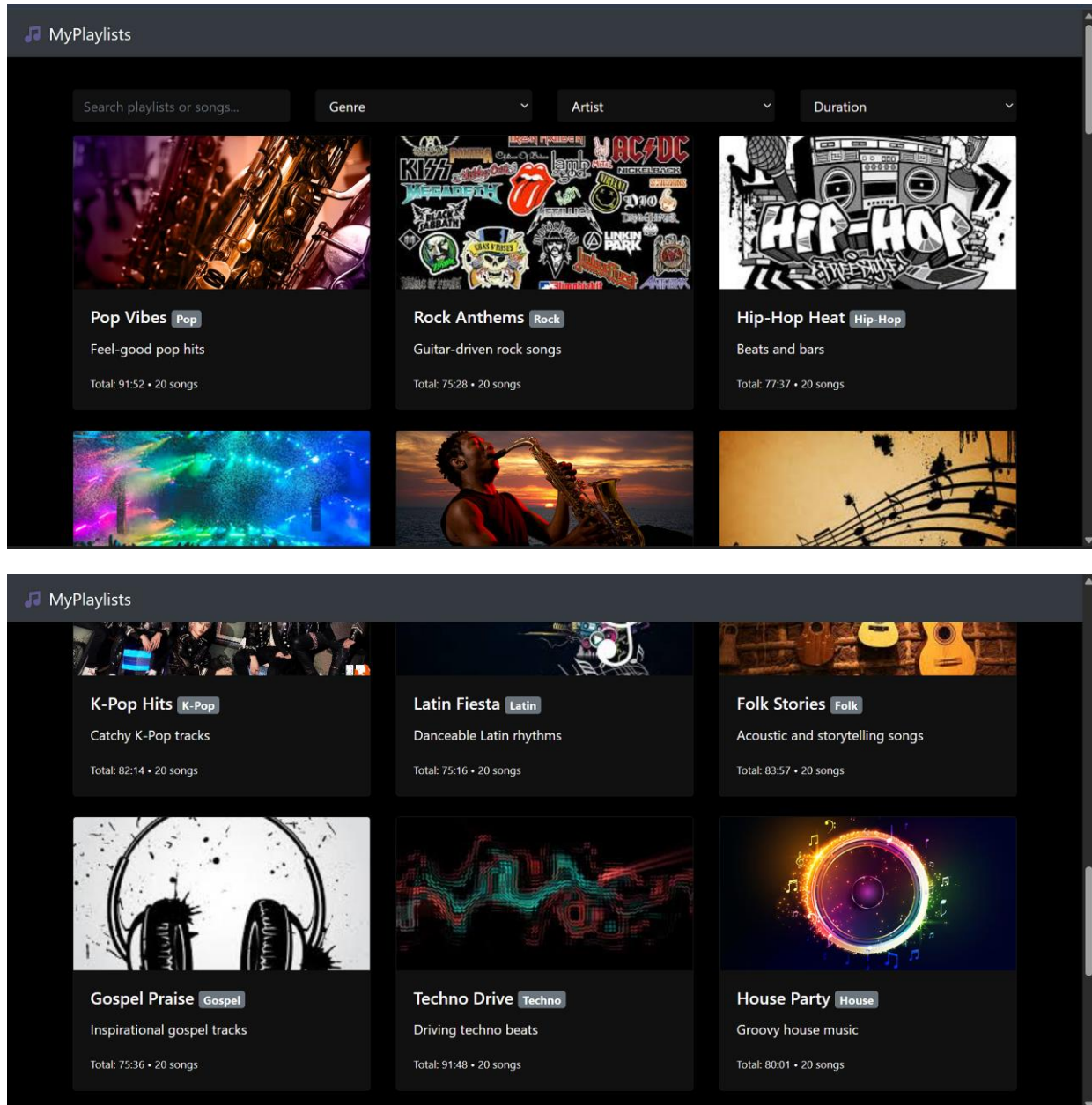
    <div id="thingsCarousel" class="carousel slide" data-bs-ride="false">
      <div class="carousel-inner">

        <!-- Slide 1 -->
        <div class="carousel-item">
          <div class="row g-4">
            <!-- Writers' Museum -->
            <div class="col-md-4">
              <div class="card h-100 shadow-sm">
                
                  <h5 class="card-title">Writers' Museum & Makars' Court</h5>
                  <p class="card-text">Learn about Robert Burns, Sir Walter Scott, and Robert Louis Stevenson, &
                  <a href="https://maps.google.com/?q=Writers%27+Museum+Edinburgh" target="_blank" class="btn b
                </div>
              </div>
            </div>
          </div>

          <!-- Scottish Storytelling Centre -->

```


13. Screenshots of Final Output:-




MyPlaylists










← Back to Playlists

Rock Anthems • Rock

Guitar-driven rock songs



Total duration: 75:28 • Songs: 20

Rock Track 1 – RockBand 1 (3:59)	  
Rock Track 2 – RockBand 2 (2:29)	  
Rock Track 3 – RockBand 3 (2:55)	  

Music Playlist Organizer

C:/Users/Sahasra/OneDrive/Desktop/DOC%20L%20AND%20T/playlist2.html

Apps | Google Calendar | Ukulele Tuner - Uke...

This page says
Edit functionality coming soon!


OK

MyPlaylists










← Back to Playlists

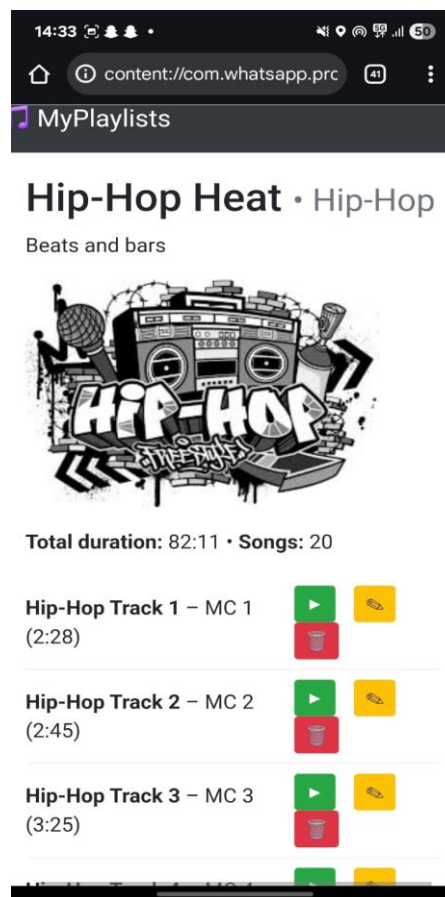
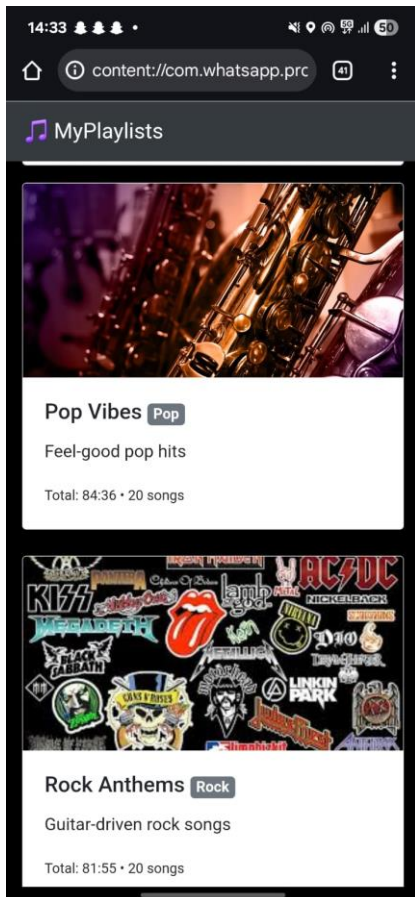
Rock Anthems • Rock

Guitar-driven rock songs



Total duration: 71:29 • Songs: 19

Rock Track 2 – RockBand 2 (2:29)	  
Rock Track 3 – RockBand 3 (2:55)	  
Rock Track 4 – RockBand 4 (5:58)	  



11. Conclusion:-

The Music Playlist Organizer project successfully demonstrates the integration of HTML, CSS, Bootstrap, and jQuery into a responsive and user-friendly application. The project enhanced practical knowledge of filtering logic, responsive layouts, and UI consistency. This mini-project acts as a foundation for future developments such as full audio playback and backend connectivity, showcasing strong potential for a complete music app.

12. References:-

- L&T LMS : <https://learn.lntedutech.com/Landing/MyCourse>