

# Music Webpage

## Web Development

**Time:** 60 mins

## Introduction

In this class, the student/s will learn to add the cover images, songs, and their details on the music webpage and style it using bootstrap classes. Student/s will also learn to add music controls.

## HTML Tags & CSS Properties Introduced

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• <code>&lt;audio controls&gt;</code><br/>    <code>&lt;source src="audio_file" /&gt;</code><br/>    <code>&lt;/audio&gt;</code></li></ul> | Adds an audio bar and links the audio file to it mentioned in src<br>controls attribute allows the audio to be played, paused and volume controlled. |
| <ul style="list-style-type: none"><li>• <code>class="card border-0 bg-dark"</code></li></ul>   | Creates card with no border and dark background  |
| <ul style="list-style-type: none"><li>• <code>class="card-img-top"</code></li></ul>  | Add an image on the top of the card  |
| <ul style="list-style-type: none"><li>• <code>class="card-img-overlay"</code></li></ul>  | Enables adding text over an image  |
| <ul style="list-style-type: none"><li>• <code>class="d-flex"</code></li></ul>  | Creates a flex box with the item below it  |
| <ul style="list-style-type: none"><li>• <code>class="justify-content-end"</code></li></ul>   | Aligns the items to the end of the flex box  |
| <ul style="list-style-type: none"><li>• <code>class="flex-column"</code></li></ul>   | Aligns items in the card vertically  |
| <ul style="list-style-type: none"><li>• <code>class="card-img-overlay"</code></li></ul>  | Enable adding text over an image   |
| <ul style="list-style-type: none"><li>• <code>class="col-screen size-number of columns"</code></li></ul>   | Creates a grid system with specified screen size and the number of columns   |
| <ul style="list-style-type: none"><li>• <code>class="row-attribute-value"</code></li></ul>   | Styles the rows of the grid  |
| <ul style="list-style-type: none"><li>• <code>class="container-fluid"</code></li></ul>   | Creates a container taking the full width of the screen.   |
| <ul style="list-style-type: none"><li>• <code>class="rounded bottom"</code></li></ul>  | Creates a rounded bottom for the element.  |

## Vocabulary

- **Audio Controls** allow embedding a sound on a web document.
- **Grid** allows the arrangement of the elements in rows and columns making it easy to design web pages.
- **Gutter Space** is the space between content tracks in a grid system using column-gap and row-gap attributes.

# Learning Objectives

Student/s should be able to:

- **Recall** to add image, heading, and paragraph using HTML tags.
- **Demonstrate** how to add an audio control to a webpage.
- **Explain** how to style each music card using pre-defined classes in bootstrap.
- **Create** and style the music webpage of the MMBFlix website such that it displays more cards as the screen widens.

## Activities

### 1. Class Narrative: (2 mins)

- Brief the student/s that the carousel for the music, movies and books is created on the website and they will add content to the music page to make it attractive and easy to use.

### 2. Concept Introduction Activity: (5 mins)

- Let the student/s play the explore-activity and explore that there are multiple music cards displayed on the web page that have controls to play/pause the music, adjust volume and slide through.
- Using the slides, explain that the student/s will learn:
  - to add a cover image, song details, audio control with song
  - to style the music cards using bootstrap
  - to complete the music web page

### 3. Activity 1: Add a Music Thumbnail: (7 mins)

#### Student Activity: (7 mins)

- Lead them to name the HTML tags used to add a cover image and song details.
- Introduce the <audio> tag with controls.
- Guide the student/s to add the first music thumbnail with details and audio control to the music webpage using an image, heading, paragraph, and audio tags.

### 4. Activity 2: Create and Style the Music Cards: (10 mins)

#### Teacher Activity: (5 mins)

- Recall using bootstrap classes to create a card and explain the classes to add overlay and flex boxes. Show changing the card border values from 0 to 5.
- Explain to the student/s how to use bootstrap pre-defined classes and properties.

#### Student Activity: (5 mins)

- Guide the student/s to style a music card using bootstrap.  
Probing question: What styling does “bg-dark” apply?  
Expected answer: The background is set to dark.

### 5. Activity 3: Complete the Music Page: (10 mins)

#### Teacher Activity: (5 mins)

- Highlight to the student/s that the music card spreads out as the screen expands.
- Explain to the student/s how to add albums on a grid such that more cards are visible on the screen using the grid in bootstrap.

#### Student Activity: (5 mins)

- Guide the student/s to complete the music web page.
- 6. Introduce the Post class project: (2 min)**
- Style a travel website using bootstrap classes.
- 7. Test and Summarize the class learnings: (5 mins)**
- Check for understanding through quizzes and summarize learning after respective missions.
  - Summarize the overall class learning towards the end of the class.
- 8. Additional activities:**
- Encourage the student/s to add the correct bootstrap classes to arrange the music cards.
  - Encourage the student/s to add styling to music cards when the mouse hovers.
- 9. State the Next Class Objective: (1 min)**
- We will learn to create the Movies web page of the MMBFlix website.

## U.S. Standards:

CSTA: 2-AP-13

Links Table		
Activity	Activity Name	Link
Class Presentation	Music Webpage	<a href="https://s3-whjr-curriculum-uploads.whjr.online/bcbdd6d4-6768-41e6-bfc7-11452e0804f9.html">https://s3-whjr-curriculum-uploads.whjr.online/bcbdd6d4-6768-41e6-bfc7-11452e0804f9.html</a>
Explore Activity	Music Webpage - Explore Activity	<a href="https://tynker.me/code/view/63484f1c5bcdcf7e6e4900a2/">https://tynker.me/code/view/63484f1c5bcdcf7e6e4900a2/</a>
Student Activity 1	Add a Music Thumbnail	<a href="https://tynker.com/code/project/635269cc7947a305f84509f2">https://tynker.com/code/project/635269cc7947a305f84509f2</a>
Teacher Reference: Student Activity 1 Solution	Add a Music Thumbnail - Solution	<a href="https://tynker.com/code/project/6352691c94824870e049f2b2">https://tynker.com/code/project/6352691c94824870e049f2b2</a>
Teacher Activity 2	Create Cards and Style the Music	<a href="https://tynker.com/code/project/639b17478f888433dc7afa32">https://tynker.com/code/project/639b17478f888433dc7afa32</a>
Teacher Activity 2 Solution	Add Cards and Styling to the Audio Albums- Solution	<a href="https://tynker.com/code/project/639b17bf9d944d62af405512">https://tynker.com/code/project/639b17bf9d944d62af405512</a>
Student Activity 2	Add Cards and Styling to the Audio Albums	<a href="https://tynker.com/code/project/63485041ef15d4264218fa92">https://tynker.com/code/project/63485041ef15d4264218fa92</a>
Teacher Reference: Student Activity 2 Solution	Add Cards and Styling to the Audio Albums- Solution	<a href="https://tynker.com/code/project/63484e3466e421527d217c52">https://tynker.com/code/project/63484e3466e421527d217c52</a>
Teacher Activity 3	Add Grid System To The Album Cards	<a href="https://tynker.com/code/project/639b18bb48294c1bf23aa9f2">https://tynker.com/code/project/639b18bb48294c1bf23aa9f2</a>

Teacher Activity 3 Solution	Add Grid System To The Album Cards- Solution	<a href="https://tynker.com/code/project/639b1945a61e6b491079dc52">https://tynker.com/code/project/639b1945a61e6b491079dc52</a>
Student Activity 3	Add Grid System To The Album Cards	<a href="https://tynker.com/code/project/634850c200133524da75ab02">https://tynker.com/code/project/634850c200133524da75ab02</a>
Teacher Reference: Student Activity 3 Solution	Add Grid System To The Album Cards- Solution	<a href="https://tynker.com/code/project/63484f1c5bcd7c7e6e4900a2">https://tynker.com/code/project/63484f1c5bcd7c7e6e4900a2</a>
Student's Additional Activity 1	Arrange the Music Cards	<a href="https://tynker.com/code/project/63552b92cfe6d721357b6242">https://tynker.com/code/project/63552b92cfe6d721357b6242</a>
Teacher Reference: Student's Additional Activity 1 Solution	Arrange the Music Cards- Solution	<a href="https://tynker.com/code/project/63552d4b06b3b30591570752">https://tynker.com/code/project/63552d4b06b3b30591570752</a>
Student's Additional Activity 2	Hover on Cards	<a href="https://tynker.com/code/project/63552e79dc26dc33536f3e02">https://tynker.com/code/project/63552e79dc26dc33536f3e02</a>
Teacher Reference: Student's Additional Activity 2 Solution	Hover on Cards - Solution	<a href="https://tynker.com/code/project/6352acb3bdf36136ae0ae0d2#/">https://tynker.com/code/project/6352acb3bdf36136ae0ae0d2#/</a>
Post Class Project	Travel Website	<a href="https://tynker.com/code/project/63a0dd64bd28c50a7a177952">https://tynker.com/code/project/63a0dd64bd28c50a7a177952</a>
Teacher Reference: Post Class Project Solution	Travel Website- Solution	<a href="https://tynker.com/code/project/63a0dba55652a848ee41a662">https://tynker.com/code/project/63a0dba55652a848ee41a662</a>