

CMPS 350 Web Development Fundamentals

Lab 2 – HTML Multimedia & Forms

Objective

Learn and practice how to write:

1. **HTML Multimedia:** Multimedia comes in many different formats. It can be almost anything you can hear or see, like images, music, sound, videos, records, films, animations, and more.
2. **HTML Forms:** HTML Forms are used to collect some data from the user. For example, a form can be used during user registration to collect user details such as name, email address, phone number etc.

Overview

This lab has two parts.

- **Part A:** Together, we will design two HTML pages that showcase basic HTML multimedia tags and form elements.
- **Part B:** You will extend the College Journey website you created in the previous lab to include HTML5 multimedia elements and forms.

Upon completion, you will push your work to your GitHub repository in a folder named "Lab2-HTML Forms and Multimedia".

Preparation

1. If not done already, visit <https://github.com/cmeps350s24> and clone your private repository (named Lab-YourFirstname-QuUsername).
2. Save the files produced in this Lab under the folder named Lab2-HTML Multimedia and Forms
3. As you progress through the Lab push your work to your Github Repository under the folder Lab2-HTML Multimedia and Forms

Part A – HTML Multimedia and Forms -Warmup activities

1. Create an html file and name it index.html and type the following code.

```
<html>
  <head>
    <Title>The First Page</title>
  </head>
  <body>
    This is my first html program!
  </body>
</html>
```

2. Open the following website and explore basic HTML tags for creating video, audio and images <https://www.w3schools.com/html/default.asp>

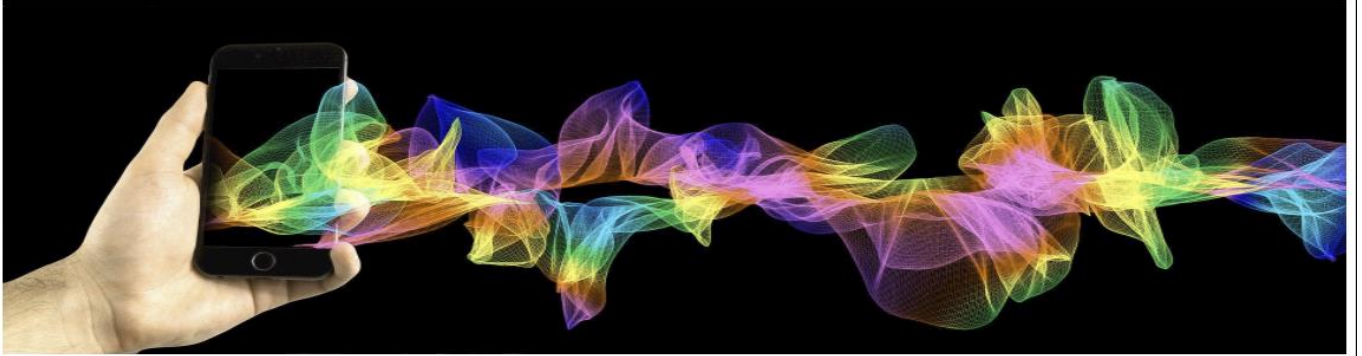
Exercise 1 – HTML Multimedia

Create the following page shown in figure 1.

You can download all the media you want for free from the following website

<https://pixabay.com>

HTML 5 Multimedia Demo Page 2021



[Home](#) [Contact Us](#)


Section 1 : What is Multimedia?

Multimedia comes in many different formats. It can be almost anything you can hear or see, like images, music, sound, videos, records, films, animations, and more. Web pages often contain multimedia elements of different types and formats.


Section 2 : Multimedia Formats

- Multimedia elements (like audio or video) are stored in media files.
- The most common way to discover the type of a file, is to look at the file extension.
- Multimedia files have formats and different extensions like: .wav, .mp3, .mp4, .mpg, .wmv, and .avi.

Sample video with controls



Sample audio with controls that loops



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Figure 1 : Multimedia demo page

Exercise 2. HTML Forms

1. Create a file named contact-us.html.
2. Design a form that looks like the one shown below in figure 2.
3. You should not allow any of the fields to be submitted unless they have a value and they meet the requirement.

Contact Us

We will do our best to get back to you as soon as we can

Fill this form

Full Name ! Please fill out this field.

Phone Number

Email

Gender: Male ☐ Female ☒

Date Of Birth

Preferred Method of Contact: Phone ☒ Email ☒

How do you rate our website?

Excellent
Very Good
✓ Good
Poor

Message
Leave your message

Figure 2 : Contact-us form

PART B : Practice Exercise

Extend the College Journey website you created in the previous lab to include HTML5 multimedia elements and forms.

- a) Open the College Journey index.html file you created in the previous lab. If you did not complete last week's Lab sheet, you can also use the base solution posted under Lab 1.
- b) In the "Study Abroad" section, use the HTML5 video tag to embed a video of your study abroad experience. You can either use a video file stored on your computer or an online video from a video hosting platform such as YouTube.
- c) In the "Internship Experience" section, use the HTML5 audio tag to embed a recording of yourself talking about your internship experience. You can either use an audio file stored on your computer or an online audio file.
- d) In the "Campus Involvement" section, use the HTML5 object tag to embed a simple diagram or flowchart to illustrate the different clubs and organizations you are involved in on campus.
- e) Save your HTML file and open it in a web browser to check that the multimedia elements have been added correctly and function as intended.

- f) Create an HTML page and name it "application.html". Then, add a navigation link in the "index.html" page that takes you from the index page to the application page.
- g) Create the design of the application page as shown in figure 3, the accompanying image.
- h) Make sure all the fields are validated.
- i) After you complete the lab, push it to your GitHub account under Lab 2

Note: For any of the form elements that you don't know, refer to the w3-school page https://www.w3schools.com/html/html_forms.asp

Club Application Form

To join one of our university clubs, please submit this application form and I will help you register

Personal Information:
First Name:
Last Name:
Email:
Gender: ☐ Male ☐ Female
Date of Birth:
Phone Number:

College:
College:
Department:

Experience:
Previous Clubs:
Years of Experience:

QU Clubs:
Select the club you want to join

Debating Club

Computing Club

AI Club

Civil Engineering Club

Research Club

Sports Club

Agreements:
☐ I confirm the information provided is true
☐ I consent to my automatic enrollment in the selected club

Submit

Figure 3 : Application form