# COMP 9782 Programming Fundamentals

**Lab-3-1 - CSS fundamental hands-on exercises. (8% of the course mark)**

Name:

Student Number:

In this lab session, you will have the opportunity to gain practical experience in working with Cascading Style Sheets. CSS is a fundamental technology for web development, allowing you to control the layout, appearance, and overall presentation of a webpage.

**Lab objectives:**

1. Understand how to apply basic styles like colors, fonts, and borders to HTML elements.
2. Learn about different types of selectors and how specificity affects the application of styles.
3. Explore the box model concept, which includes properties like padding, margin, and border.
4. Gain proficiency in using Flexbox and CSS Grid for advanced layout control.

**Lab Prerequisite:**

1. **Download** and **extract** the **Lab-3-1.zip** file from **D2L**.
2. **Navigate** to the **directory** where the **files** were **extracted**.
3. Enter the **developer name** as well as the **purpose** on each **HTML** and **CSS** file used in this lab.

**Lab-3-1 Cover Page**

1. Use the file **Lab-3-1.html** as template to create a cover page.
2. Create **header tag** and include the following:
   a. Set **h1 tag text** to **Lab-3-1 Cover Page**.

b. Set **p tag text** to **Submitted By: <Change to your full name>**

c. Set **p tag text** to **Submitted Date: <Change to date of submission>**

3. Create a **main tag**, add **4 section tags** to it.

4. Inside the **first section**, add an **a tag** with following values:

<a target="_blank" href="./weatherNetworkClone/index.html">Weather Network Clone</a>

5. Inside the first section, add an **p tag** with a **short description** of the **item on step 4**.

<p>Description: Short description here...</p>

6. Inside the **second section**, add an **a tag** with following values:

<a target="_blank" href="./studentVolunteerRegistrationForm/index.html">Student Volunteer Registration Form</a>

7. Inside the first section, add an **p tag** with a **short description** of the **item on step 6**.

<p>Description: Short description here...</p>

8. Inside the **third section**, add an **a tag** with following values:

<a target="_blank" href="./flagGradientBackground/index.html">Flag Gradient Background</a>

9. Inside the first section, add an **p tag** with a **short description** of the **item on step 8**.

<p>Description: Short description here...</p>

10. Inside the **fourth section**, add an **a tag** with following values:

<a target="_blank" href="./fanClub/index.html">Fan Club</a>

11. Inside the first section, add an **p tag** with a **short description** of the **item on step 10**.

<p>Description: Short description here...</p>

12. Navigate to **./assets/css/lab-3-1.css** and add **CSS declarations** to change the look and feel of the cover page. Feel free to use your imagination and apply any appropriate CSS properties that we have learned so far. A sample cover has been provided (See image next page) as a guide not rule.

# Lab-3-1 Cover Page

Submitted By: Roderick Bernardo

Submitted Date: October 20, 2023

[Weather Network Clone](#)

Description: *Short description here...*

[Student Volunteer Registration Form](#)

Description: *Short description here...*

[Flag Gradient Background](#)

Description: *Short description here...*

[Fan Club](#)

Description: *Short description here...*

**Weather Network Clone:**

1.  Navigate to **weatherNetworkClone**.

2.  Open the file **index.html**.

3.  Look for the html comment: **<!-- Weather Network Clone HTML code goes here... –>**.

4.  For **layout** use either **flexbox and/or grid**.

    a.  Sample flexbox and grid layout has been provided (See **flex.html** and **grid.html**).

5.  Use any **HTML code** and **CSS declarations** needed to build a **Weather Network 7 day forecast**.



6.  The **image files** have been provided and are located at **/assets/images**.

**Student Volunteer Registration Form:**

1. Navigate to **studentVolunteerRegistrationForm** and open **index.html**.
2. Create a student volunteer registration form with the following field definitions.
    a. HTML input form fields

| Input type | Label | Name / Id / for | Placeholder |
|---|---|---|---|
| text | First Name | firstName | First Name |
| text | Last Name | lastName | Last Name |
| email | Email | email | username@emaildomain.com |
| tel | Phone | phone | (###) - ### - #### |
| date | Date of Birth | dateOfBirth | |
| submit | | submit | |

   b. HTML radio form fields

| Input type | Label | Name | Value / Id / for |
|---|---|---|---|
| radio | First Year | gradeYear | firstYear |
| radio | Second Year | gradeYear | secondYear |
| radio | Third Year | gradeYear | thirdYear |
| radio | Fourth Year | gradeYear | fourthYear |

   c. HTML checkbox form fields

| Input type | Label | Name / Id / for |
|---|---|---|
| checkbox | Sunday | sunday |
| checkbox | Monday | monday |
| checkbox | Tuesday | tuesday |
| checkbox | Wednesday | wednesday |

| checkbox | Thursday | thursday |
|---|---|---|
| checkbox | Friday | friday |
| checkbox | Saturday | saturday |

3. form action should be set to "**https://wp.zybooks.com/form-viewer.php**" and method to "**POST**".

4. Form style guide lines.

    a. Create CSS definitions to define the default look and feel of the form. Make sure to include the following properties below:

        **i. Text styling:**

            1. font-family: <Change to desired value>; /* Font family */

            2. font-size: <Change to desired value>; /* Text size*/

            3. color: <Change to desired value>; /* Text color */

        **ii. Border styling:**

            1. border: <Change to desired value>; /* Border color, style and thickness */

            2. background-color: <Change to desired value>; /* Background color */

            3. border-radius: <Change to desired value>; /* Rounded corners */

            4. padding: <Change to desired value>; /* Padding inside the input */

        **iii. Input dimensions:**

            1. width: 200px; /* Width of the element */

            2. height: 30px; /* Height of the element */

        **iv. :hover pseudo class**

            1. border-color: <Change to desired value>; /* Border color on hover */

            2. box-shadow: 0 0 5px rgba(0, 123, 255, 0.5); /* Shadow on hover */

        **v. :focus pseudo class**

1. border-color: <Change to desired value>; /* Border color on focus */

2. box-shadow: 0 0 5px rgba(0, 123, 255, 0.5); /* Shadow on focus */

3. outline: none; /* Remove default outline (optional) */

 vi. **::placeholder pseudo class**

1. color: <Change to desired value>; /* Placeholder text color */

5. See sample form to be used as a guide not a rule.

**Student Volunteer Registration Form**

**FIRST NAME:**

First Name

**LAST NAME:**

Last Name

**EMAIL ADDRESS:**

username@emaildomain.com

**PHONE:**

(###) - ### - ####

**DATE OF BIRTH:**

yyyy-mm-dd

**Flag Gradient Background:**

1. Navigate to **flagGradientBackground** and open the CSS file

   **./assets/css/flagGradientBackground.css**.

2. Look for: background-image: linear-gradient(**to right**, **red**, **blue**, **yellow**);

3. Modify the value of gradient direction of your choice. The complete list of gradient directions are listed on the css file. Feel free to experiment and set the appropriate gradient direction.

4. Modify the list of colors to reflect the chosen country flag.

5. Navigate to **flagGradientBackground** and open the HTML file **index.hml**.

6. Update the value of the **gradient direction** to the **value used** on the **css file**.

7. Update the **colors** used to the **value used** on the **css file**.



**Philippine Flag Gradient Background**

The direction equal to: (to right) was used to determine the gradient direction.
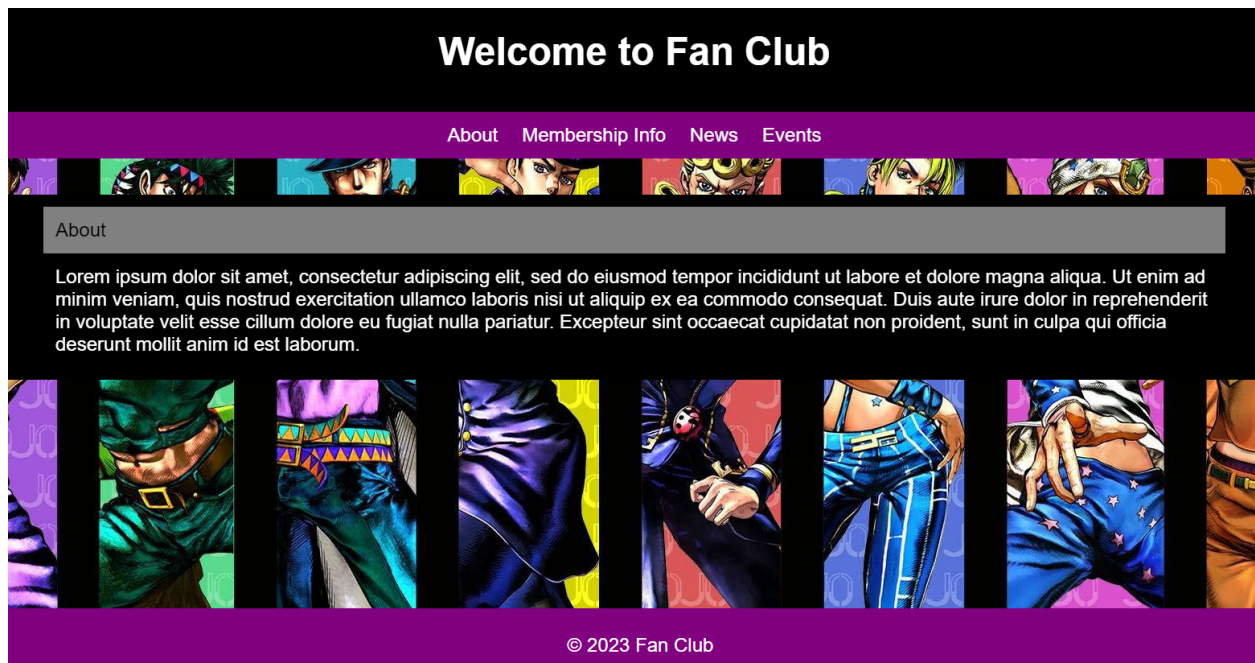
The following colors: (red, blue, yellow) were used to create this gradient background.

**Fan Club:**

1. Creating a fan club webpage is a great way to engage and connect with fans who share a common interest. Here are some elements you can include on your fan club webpage to make it engaging and informative:

    a. Welcome Message:

        i. A warm welcome message to visitors, expressing gratitude for their interest and support.

    b. About the Fan Club:

        i. Provide a brief description of the fan club's purpose, mission, and what fans can expect by joining.

    c. Membership Information:

        i. Details about how to become a member, including any fees or requirements.

    d. Benefits of Membership:

        i. Outline the perks and benefits that members will receive. This could include access to exclusive content, early access to news or releases, special events, etc.

    e. News and Updates:

        i. Regularly update the webpage with news related to the subject of the fan club. This could be updates about the artist, team, or whatever the fan club is centered around.

    f. Exclusive Content:

        i. Share content that is exclusively available to members, such as behind-the-scenes videos, interviews, or sneak peeks.

    g. Events Calendar:

        i. Provide a schedule of upcoming events, like meetups, online chats, live streams, or conventions related to the subject.

    h. Gallery:

   i. Showcase images and videos related to the subject, including fan art, photos from events, and promotional material.

i. Fan Contributions:

   i. Allow fans to submit their own content, like artwork, fan fiction, or cover songs, which can be featured on the website.

j. Social Media Integration:

   i. Include links to your fan club's social media profiles for easy access to additional content and community interaction.

k. Forum or Discussion Board:

   i. Create a space for fans to discuss topics related to the subject, share their thoughts, and connect with other members.

l. Merchandise Store:

   i. If applicable, provide a link to a store where fans can purchase official merchandise.

m. Fan Spotlights:

   i. Highlight dedicated and creative fans by featuring their work, stories, or contributions on the website.

n. Contact Information:

   i. Provide a way for fans to get in touch with the fan club's organizers for inquiries, suggestions, or feedback.

o. FAQ Section:

   i. Answer common questions that fans might have about the fan club, its activities, and membership.

p. Terms and Conditions:

   i. If there are any specific rules or guidelines for being a member, make sure to outline them clearly.

q. Newsletter Signup:

   i. Allow fans to subscribe to a newsletter for regular updates and news.

2.  Create a fan club web page of your choice (**Artist, Band, etc**) and pick **4 elements above** to include. You can either create a single or multiple page site. Either way, ensure that one of the files is named **index.html** because that is the name used for the fan club cover link.

3.  Below is a sample of the fan club web page provided as a guide not rule.



**Lab Submission:**

1.  Create a zip file of the folder **Lab-3-1**.

2.  Submit **zip file** via **file upload** on **D2L Lab-3-1** section.