# Department of Computing

**CS344: Web Engineering**

**Class: Fall 2025**

# Lab 3: HTML Advanced - Personal Portfolio II

## Date: September 25, 2024

## Time: 09:00 – 11:50/ 14:00 – 16:50

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# Lab 3: HTML Advanced - Personal Portfolio II

### ****Introduction****

In this lab, you will extend your **personal portfolio website** by improving the design with **CSS styling**, organizing your project into proper folders, and publishing it online using **GitHub Pages**. This lab introduces you to professional practices of project organization and deployment.

### ****Objectives****

By the end of this lab, you will be able to:

* Organize **HTML, CSS, and images** into proper folders.
* Use an **external CSS file** to improve styling and reusability.
* Apply **float and clear properties** in CSS to arrange content into simple layouts.
* Upload your project to **GitHub** and track changes using version control.
* Deploy and view your portfolio live using **GitHub Pages**.

### ****Tools / Software Requirements****

* Text editor (e.g., VS Code, Sublime Text, Notepad++)
* A modern web browser (e.g., Chrome, Edge, Firefox)
* Git and GitHub account (free)
* Internet access

### ****Description****

You will enhance the portfolio created in **Lab 3** by:

1. **Organizing Files in Folders**  
   Create the following structure:

portfolio/

├── index.html

├── hobbies.html

├── contact.html

├── gallery.html

├── skills.html

├── css/

│ └── style.css

├── images/

│ ├── photo1.jpg

│ ├── photo2.jpg

│ └── ...

└── README.md

1. **CSS Improvements**
   * Use a **separate CSS file (style.css)** for all styling.
   * Add consistent **fonts, colors, borders, and spacing** across pages.
   * Use **float** to position images and content side by side.
   * Use **clear** to fix layout issues caused by floated elements.
   * Style the **navigation menu** so links are aligned horizontally.
   * Arrange the **image gallery** using float and clear.
2. **Version Control with Git**
   * Initialize a Git repository.
   * Commit all files.
   * Push your project to GitHub.
3. **Deployment via GitHub Pages**
   * Enable GitHub Pages from repository settings.
   * Share your portfolio’s live link (e.g., https://username.github.io/portfolio/).

### ****Pitfalls to Avoid****

* Keeping CSS inline instead of using a separate style.css.
* Forgetting to link the CSS file in your HTML pages.
* Incorrect folder structure (images or CSS not organized).
* Failing to enable GitHub Pages after uploading.
* Usage of Javascript.
* Using any framework/API for CSS.

### ****Lab Tasks****

1. Move all CSS to an **external stylesheet**.
2. Create a **navigation menu** styled with CSS (horizontal links).
3. Use **float and clear** to arrange text and images neatly.
4. Create an **image gallery** with at least 5 images, aligned using float.
5. Organize project files into folders (css/, images/).
6. Upload your project to GitHub.
7. Deploy your portfolio using GitHub Pages.

### ****Deliverables****

Each student must submit:

* Each submission is individual with the following composition:
  + Source Code (Web Pages)
  + Description Document
* Convert your submission files into a zip folder and name it as given below, finally upload the zip folder to LMS.
  + Name – Registration No. – Section
* A link to their **GitHub repository** (with all HTML, CSS, and images).
* A link to the **live portfolio site** via GitHub Pages.
* Properly organized project files in folders.