

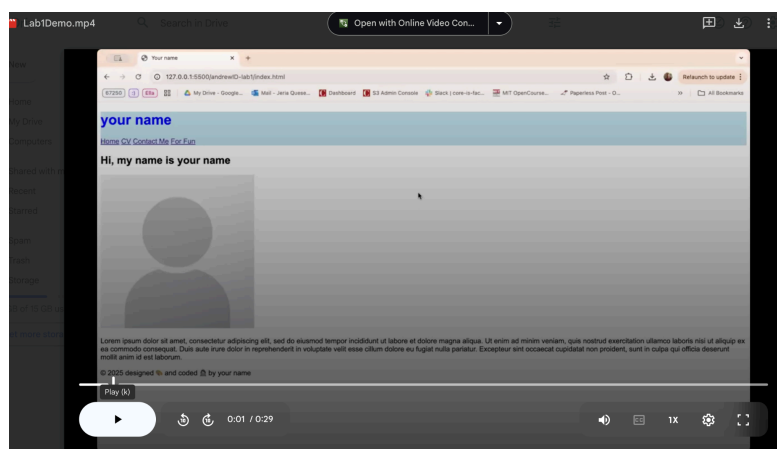
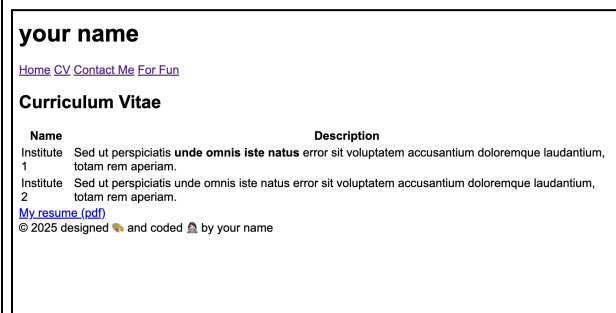
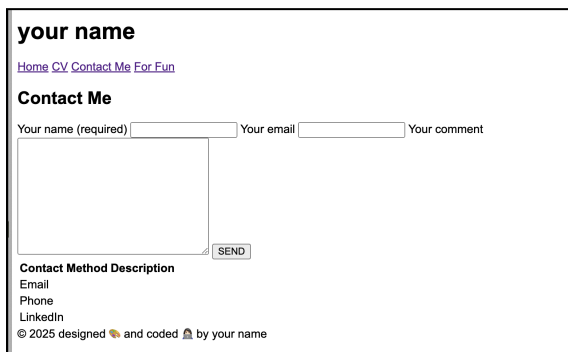
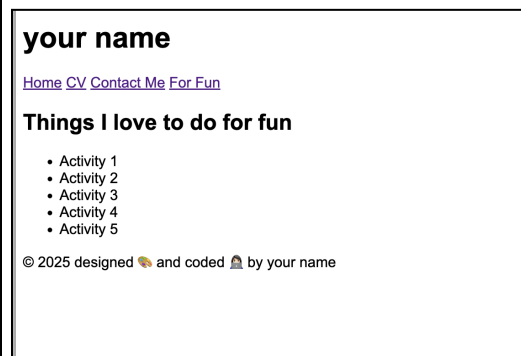
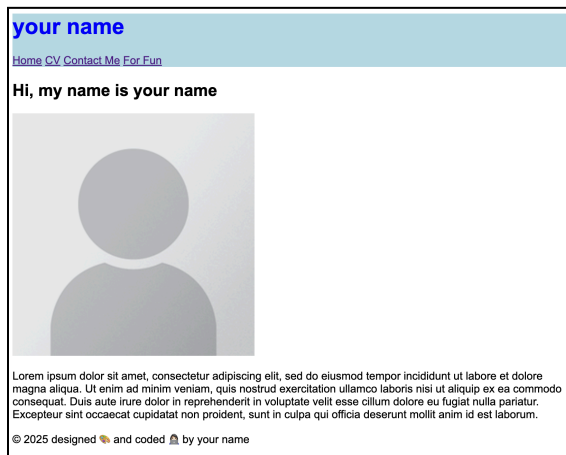
INFORMATION SYSTEMS MILIEUX (67-250)

Web Development Lab 1: Introduction to HTML

Demo

This lab focuses on directory structure, fundamental HTML elements, and the creation of tables and forms. You must meet every requirement outlined in the instructions, but you're encouraged to be creative with your digital materials and overall aesthetic.

Your finished lab should look like something like the images and video below:



Instructions

1. Pre-work:
 - Please install the necessary software and gather your digital materials as described in the [Web Dev Lab 0](#) before starting Lab 1.
2. Directory Structure:
 - Create a folder named "67250_webdevlabs" in your workspace.
 - Inside "67250_webdevlabs", create a folder named "andrewID-lab1" with your Andrew ID.
 - Inside "andrewID-lab1", create two subfolders: "views" for HTML files (except index.html) and "static" for other materials.
3. Create Your First HTML File:
 - Open Visual Studio Code (VS Code) and open the "andrewID-lab1" folder
 - Create a new HTML file named "index.html" and save it in that folder.
 - Use the shortcut ! to create the basic HTML skeleton.
 - Add the following content to the `<head>` element:
 - `<meta name="author" content="Your name">`
 - `<meta name="keywords" content="Carnegie Mellon University, Information Systems">`
 - `<meta name="description" content="Your name professional website">`
 - `<title>Your name</title>`
4. Content for `<body>`:
 - Add a `<header>` with an `<h1>` element within for your full name.
 - Add a `<div>` with the class attribute "main," containing an `<h2>` with "Home" and a `<p>` with "Hello world!".
 - Add a `<footer>` with a copyright statement.
5. Multiple Page Structure:
 - Inside the `<header>`, add a `<nav>` with links to "Home", "CV", "Contact me", and "For fun". HINT: index.html will be in the root folder but the three other papers will be in the subfolder "views."
 - Create the corresponding HTML file: "cv.html," in the "views" subfolder by copying index.html and renaming it to the new file name. Update the paths in the `<nav>` so index.html is up a directory and the new pages are in the "views" subfolder.
 - Create the corresponding HTML files: "contact.html," and "fun.html" in the "views" subfolder by copying cv.html and renaming it to the new file names (hint: do this two times).
6. Home Page (index.html):
 - Replace the content of the `<h2>` with "Hi, my name is [First preferred name]".

- Add an `` element with the appropriate `src` and `alt` attributes (when uploading images, store them in the static folder).
 - Add an introductory paragraph with an `id` attribute "intro".
7. CV Page (cv.html):
- Remove the `<p>Hello World!</p>` from step 3.
 - Replace the `<h2>` with "Curriculum Vitae".
 - Add a `<table>` for your CV information with the following columns:
 - Name
 - Description
 - Upload your resume into the static folder.
 - Add a link to your resume in PDF format.
8. Contact Me Page (contact.html):
- Replace the `<h2>` with "Contact Me".
 - Add a form with required fields for name, email, and comment.
 - Add a table with your contact information.
9. Fun Page (fun.html):
- Replace the `<h2>` with "Things I love to do for fun".
 - Add a list of your favorite activities.
10. Style the Pages:
- In index.html add `style="color:blue; background:lightblue"` to the `<header>` element.
 - Add `style="font-family: Arial"` to the `<body>` element of all pages.
11. Test:
- Compare your finished lab to the images and video shown in the demo at the beginning of the lab.
 - Check that all links are working and there are no broken images.
 - Review the grading rubric in Canvas to verify your work satisfies all the necessary requirements. Your work will be evaluated with the 'working software principle' of agile methods.

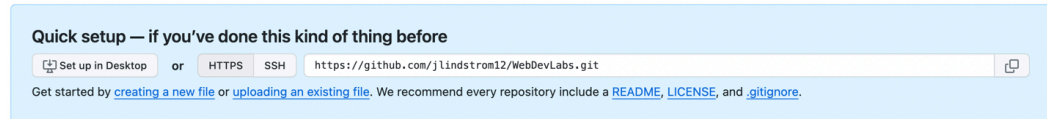
Deployment

Refer to Web Dev Lab 0 for directions on setting up a GitHub account if you did not do so yet. Please let the instructors know if you are already using a GitHub Pages to host an application and cannot deploy your web dev labs. One solution is to create a separate GitHub account or deploy on your [Andrew File Server \(AFS\) personal website space](#).

1. Follow the path below that you setup in Lab 0 to commit your code to GitHub:

Path 1: Uploading the lab to GitHub

- Log into your [GitHub](#) account.
- Select your github repository named WebDevLabs.



- In the blue section you see on your screen click “upload an existing file” and drag and drop the contents of your AndrewID-lab1 folder. Don’t drag the full folder just the contents inside so index.html is in the root folder.
 - After all your files upload, click Commit changes (green button at bottom).
- Continue with step 2 below to deploy.

Path 2: Uploading the lab to GitHub

- Note: If you want to update github with your lab files, you need to use the following commands to update your remote repository command:
 - `git add --all`
 - `git commit -m “your comment: adding all files”`
 - `git push`
- In your github repository go to Setting → Pages
- **Notes:** any updates to your site will happen automatically when you push to github
- Continue with step 2 below to deploy.

Path 3: Uploading the lab to GitHub

- Note: If you want to update github with your lab files, you need to use the following commands in the terminal:
 - `git add .`
 - `git commit -m “Message Here”`
 - `git push`
- Open your github repo and you should see any changes you made.
- Continue with step 2 below to deploy.

2. Follow the steps below to deploy your website on GitHub:

- Click on Settings in the toolbar
- On the left side of the webpage find the section named “Code and automation” and click on the option “Pages”
- On the main section of the webpage, under “Build and deployment” find the section “Branch”
- Click on the dropdown button “None”
- Change the checkmark section to main and click Save

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Build and deployment

Source

Deploy from a branch ▾

Branch

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. [Learn more about configuring the publishing source for your site.](#)

main ▾

/ (root) ▾

Save

Visibility [GitHub Enterprise](#)

With a GitHub Enterprise account, you can restrict access to your GitHub Pages site by publishing it privately. You can use privately published sites to share your internal documentation or knowledge base with members of your enterprise. You can try GitHub Enterprise risk-free for 30 days. [Learn more about the visibility of your GitHub Pages site.](#)

Start free for 30 days

- You will get a message that “GitHub Pages source saved.”
- Wait for the page to deploy. After a few minutes it should say “your site is live at <https://YourUser.github.io/WebDevLabs/>
- Once it says this you can see your published website at <https://YourUserID.github.io/webdevlabs/index.html>
- Check that all links are working and there are no broken images.

Submission

If you finish during class, please show the TAs your work so we can sign you off in Canvas. Otherwise, post the URL of your deployed website to the Web Dev Lab 1 assignment in Canvas by the deadline.

🎉 **Congratulations on completing your first website!** 🙌

