

CS108 - Software Systems Lab

Lab 3 - HTML and CSS

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Problem 1: Basic HTML

In this activity, your goal is to prepare a simple website like the one shown in `basic.png`. You will have to write your code in the `basic.html` file provided. Your `.html` file should have the following:

- (a) `<h1>` and `<h2>` headings
- (b) `<p>` tags
- (c) Unordered lists
- (d) A table
- (e) The email address should be a link which takes you to compose a mail
- (f) A footer tag to display your name
- (g) A title to your website

You can alter some of the text/content as shown in the image. However, the elements and attributes have to be present as specified. The objective of this activity is to help you learn how and where basic tags are used.

Problem 2: Let's style!

In this lab we will focus on styling our simple web page. Your HTML code should be present in `advanced.html` and CSS code should be present in `styles.css` file. Remember this activity is totally independent from the previous one, so you need to create another HTML page with the following specifications:

- (a) There should be a title of the webpage and `advanced.html` should have its styling linked to `styles.css`.
- (b) There should be a header. Change the text alignment to centre.
- (c) Include a navigation bar in the webpage. Change the background colour of the navigation bar.
- (d) Also, add a footer in your document. The text colour of the footer should be white.
- (e) Attach `id="bad_jokes"` to the footer. The text colour of the footer should be white. Remember, the styling of the footer should be based on this id and not on the tag itself.

- (f) To make things difficult, add a form in the Contact Me section. It should have name, email and message fields along with a submit button.

A sample website is given in `advanced.png`.

Problem 3: Personal Portfolio

Enough of basic stuff done, right? (Or it wasn't basic for you??) Well, anyways in this activity your goal is to design your personal website. Yes, you read that right.

There is a `templates` folder, which has some screenshots on how your websites may look like. Some of the essential features, which your website should have are:

- (a) Four or more navigation options, including Home, Hobbies, Achievements and Contacts sections.
- (b) A navigation bar at the top of the website, which should have all the options, and on clicking each option it should move to the respective webpage.
- (c) The Home section should have your image, with height and weight adjusted.
- (d) There should be a table showing your education.
- (e) The Contact web page should display your contact number and email id. Optionally you can attach links to your social media handles.
- (f) The Hobbies should have a list of activities you like to do, describing all of them.

There is a `templates` folder, which has some screenshots on how your website may look like. But use your own creativity and personalize it! You can also refer to other websites for ideas.

In today's lab or the next lab once you finish your website, show it to any TA to get some feedback and a score (will not count towards your grade, don't worry!) (You will not be able to run the auto-grader on your submissions. So, don't click on the Evaluate button.)

Write your code in `personal_website.html` and `style_website.css`.