

CS 251: Talking the Web Lingo: Inlab

- Due: 8:10 PM 08/02
- Please write (only if true) the honor code. If you used any source (person or thing) explicitly state it. You can find the honor code on Piazza.

Overview

Almost all the information that you access on the internet is rendered in the language called HTML which stands for the mouthful, Hyper Text Markup Language. While HTML, or (now a common noun!) html is powerful, it alone is not considered sufficient. CSS (Cascading Style Sheet) is used to prettify the content and JavaScript is used to make it interesting by adding dynamism. We intend to touch upon HTML and CSS in the inlab , and Javascript in the outlab. Stay tuned! In addition to these, you will also learn about Inkscape in the outlab. Inkscape is an outstanding vector graphics software. You can find a good tutorial for inkscape at <https://inkscape.org/en/learn/tutorials/>.

A. Laying the Layout

As mentioned earlier, HTML constitutes the backbone of the page: The raw content comes from HTML. CSS is used for styling purposes to make the page look beautiful, and modular. In this part your task is to create a homepage, which will eventually be hosted on www.cse.iitb.ac.in/~xxx, where xxx is your CSE username¹. Please refer to www.w3schools.com for HTML.

Your webpage must have 5 pages mentioned below. You will have to make 5 different html files for each of the pages. Each of these five pages must have a **navbar** with links to all the pages for navigation. All design decisions have been entirely left to you. For example, you can use a horizontal navbar aligned at the top or bottom, or a vertical navbar aligned on either of the sides.

- home.html - Homepage: This page should contain team information with hyperlinks to the teammates page.
- aboutMe.html - About me: Here you can add brief introduction about yourself. Also include a youtube video (ideally no more than 5 minutes) of your favourite inspirational video (or song) as an **iframe**. You should only link to legally public domain video
- interests.html - Interests: You can mention your hobbies, future goals and mention a mathematical theorem / formula that was your go to tool during JEE days! To be able to beautifully write mathematical formulae make use of **MathJax library**
- timetable.html - Time-table: Make use of HTML Tables to show your time table for this semester
- contact.html - Contact: You can include your contact information and links to some social profiles. Also, some people from your hometown would be interested in looking at your 'website'. So add your name in your local language using unicode characters on this page. (We assume that your local language is not English. If it is, adopt some language from India.)

You can always press “Ctrl+U” to see the source code of any HTML webpage.

You can make one common structure for the group but each member of the team should have his (or her) own version of the webpage. You have to submit on Moodle only the code for webpage of lowest roll number member of the group. But all the three webpages should be uploaded on respective

¹ Yes! CSE guys get some additional web space from the department apart from the usual bighome.

CSE Servers. But beware! Follow ‘Submission Guidelines’ to know more about how and when to do it.

Please note that you are NOT allowed to make use of any JS or CSS libraries except for MathJax. Some of you might be tempted to use some libraries for designing but hold on, not yet!

B. Unlaying the Strands

A simple tool that most major browsers offer nowadays is ‘Developer Tool’. For example on Chrome, you can access this by hitting the F12 key. Here you can see all the client side code for the webpage and all the library files. You can see how much time each resource takes to load under the ‘Network’ and ‘Timeline’ tabs. You can also change the source code locally on your browser by ‘Inspect’ing a particular element on the webpage. You can spend a lot of time with this tool!

In this exercise, you have to edit the number of likes on the Facebook profile picture of the lowest roll number member of the group. It should be set to ‘XXX, YYY and 2048 others’ where XXX and YYY are names of the other two group members. (You have to submit a screenshot with the likes changed. Name the screenshots as ‘beforeLikes.png’ and ‘afterLikes.png’)

Now that you have accomplished this, think twice before trusting web screenshots again!

Submission Guidelines

1. When you submit, please document individual percentages such as Student 1: 80%, Student 2:100%, Student 3:10%. In this example, the second student will get full marks (10/10) and the first student will receive 8/10.
2. Do include a readme.txt (telling me whatever you want to tell me). (The reflection essay is not required for inlab, but is required for outlab.) Do include group members (name, roll number), group number, honour code, citations etc.
3. The folder that you submit should contain the five html files (corresponding to details of lowest roll number team member) and any additional CSS files you have created. The directory structure should be properly maintained in your submission and it should work locally. We plan to open `home.html` and start navigation from there to check the whole webpage. Also add your screenshots for Task B in the same folder. We will NOT look at your `public.html` page for grading this assignment. (This is true in general.) Also you can assume that we will be connected to the Internet for Mathjax purposes. But don’t depend on any other Internet files.
4. The folder and its compressed version should both be named `lab02_groupXY_inlab` for example folder should be named `lab02_group07_inlab` and the related `tar.gz` should be named `lab02_group07_inlab.tar.gz`
5. Each member has to upload his/her files to their CSE account. Do this only in the last 10 minutes of the lab. Otherwise anyone can visit your webpage and check your source code, since now, all of you know how to do it. All the files in your `~/public.html` can be accessed at `www.cse.iitb.ac.in/~abc/` if `abc` is your CSE username. You can use `scp` or `sftp` to copy files to the `public.html` folder on your CSE accounts. Look [here](#) for details.

How We will Grade You

1. Task A:
All required pages are present with legitimate content and working link redirections: 50 Points.
If you use unwarranted content, such as
Youtube `iframe`: 5 points
MathJax: 10 points

HTML Table: 5 points

Local (Non-Latin) Characters in Unicode: 5 points

Design Aesthetics: 10 points

2. Task B:

Non-photoshopped screenshots with likes as specified: 15 Points