Introduction to Software Systems

Assignment 2 - HTML, CSS, JS

Deadline: 24th February, 6:00 pm

Description:

Create a personal webpage and deploy it to your web.iiit.ac.in or researchweb.iiit.ac.in accounts. Feel free to be as creative as you'd like with things / styles you want to include. Do remember that these websites are public-facing and reflect upon yourself.

Aim / Objective:

- Learning to use html, css and javascript to build an actual website.

Judging Criteria:

- Satisfying all the component requirements
- Clean Code
    - clear divisions between html and css (preferably in separate files)
    - not repeating same blocks of code over and over
- User-Friendly interface

Component Requirements (HTML + CSS):

- Multiple Pages (Linked to each other by hyperlinks)
    - Navigation bar to get between the pages (Examples of pages: Interests, Accomplishments, About me..etc.)
- Include 2-3 images on some of the pages.
    - At least one of your images must be locally stored
    - At least one of them from some external link
- Must link to at least 2 external websites that open in a new tab
- Each page must have a background image or colour
- You should have used at least one table which makes use of merged table cells
- Must be responsive in design

Component Requirements (JS):

- Navigation bar must stick to the top on scrolling
- Elements (fields) on navigation bar must change colour on hovering
- On one of the pages, create a form that lets others add your skill and its rating (a mechanism where someone you know tells something about you). It may be preferred to use drop down here. Use an array and a dictionary to store this data. Display it in the form of a table on the same webpage. Store 3 attributes (name of the person who is adding the skill, the skill, its level). Level: {Proficient, Intermediate, Beginner}.
  Your table should look something like this:

NAME	SKILL	LEVEL
Bob	HTML	Proficient
Alice	Playing Guitar	Intermediate

The first row means that Bob says you are proficient in HTML.

- Create a button which keeps track of number of likes for the page, which is dynamically updated every time someone clicks on it. The number of likes should be displayed again without re-rendering the page.(In short, implement a button counter on the page)
- Display a set of 5 images that change on clicking the image (The next image should be shown only on clicking the current image). Also, clicking 5th image should lead to 1st image.

Points to note:

- Your home page must be titled "index.html" and be organized in a folder with all other html files and images.
- Make sure all pages have a .html extension.
- All images must be formatted for web correctly (jpg, gif, png)
- https://web.iiit.ac.in/~<username>/ or https://researchweb.iiit.ac.in/~<username>/ should open up your home page (index.html).

- You are allowed to use other libraries like Bootstrap to enhance your styling and make your website look good, but you will be graded only on the usage of basic css styles and the presence of the core components in the requirements. You are free to use libraries to create those components.
- The point of JavaScript is to make your webpage interactive. You can either write the scripts yourself, or use external libraries. In case you use external libraries, you should be able to explain the functioning in detail during evaluation.

Submission:

Submission will be on your gitlab repositories. (Further details on exact submission procedure will be provided later). Your submission folder should contain 4 directories (html, css, img, js). Adhere to the following structure.

```
├── css
│   └── styles.css
├── html
│   └── index.html
├── img
│   └── myPic.jpg
└── js
    └── script1.js
```