

lab-7

Overview

This activity consists of two tasks that focus on fundamental HTML tags and building a webpage using only HTML and CSS. The structure of the activity is as follows:

```
.
|--- Expected_Output.png # Reference output of the final webpage
|--- Expected_Output_Responsive.png # Reference output of the final webpage responsive
|--- README.md           # This file with instructions and guidelines
|--- readme-image-1.png
|--- readme-image-2.png
|--- Resources
|   |--- examples.css     # Example CSS file for reference
|   |--- examples.html    # Example HTML file for reference
|--- images               # Folder for images used in the tasks
|   |--- cloud.jpg        # image for cloud computing
|   |--- js.png           # image for JavaScript
|   |--- kubernetes.jpeg  # image for Kubernetes
|   |--- html-css.png     # image for HTML
|   |--- rest.png         # image for rest api
|--- index.html           # Main page of the final task
|--- q1.html              # Page for Task 1
|--- bonus.html           # Bonus animation task
|--- styles
|   |--- styles.css       # Styles for the final webpage
```

Task 1: Basic HTML Tags Usage (5 Marks)

In this task, you will create a webpage (q1.html) demonstrating the use of essential HTML elements. The following components must be included:

1. **HTML boilerplate Code:** Proper DOCTYPE declaration and initial Boilerplate Code.
2. **Table (2 Marks):**

Team	Q1		Q2	
Member	Tasks Completed	Issues Resolved	Tasks Completed	Issues Resolved
Team A	25	20	30	18
	28	22	35	25
Team B	22	18	28	20
	20	15	25	16
	25	20	30	22

3. **List (2 Mark):**

- Home
- About
- Services
 1. Web Development
 - Frontend
 1. HTML
 2. CSS
 3. JavaScript
 - Backend
 - Node.js
 - FastAPI
 - Django
 2. App Development
 3. Cloud Services
- Contact

Phone
+123-456-7890

Email
contact@example.com

4. Iframe (1 Marks):

- Embed an external webpage using an `<iframe>` with link <https://www.iiit.ac.in/>.

File Structure for Task 1:

- q1.html → Contains all the above components.
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Task 2: Replicating a Given Webpage Using Only HTML & CSS (15 Marks)

You will create a complete webpage (`index.html`) using only HTML and CSS (`styles/styles.css`). All the images are provided in the images folder. You should only use external css unless its asked to write inline. You must **precisely** match the following specifications without making any assumptions:

Sections and Marks Distribution:

1. Header (4 Marks)

- A header with logo of heading2 on left side and menu bar on right side
- A navigation bar with exactly four links.
 - Home - <https://www.iiit.ac.in/> in new page.
 - About - <https://sai11101989.github.io/> in same page.
 - Blog - reload (it should be active and background should be background color: `#4CAF50`)
 - Contact - it should open mail with to address as your email.

- Background color: #1b63a2
 - Text color: white
 - Padding: 20px
 - Links should have padding of top and bottom: 8px; left and right: 10px and margin of top and bottom: 0; left and right: 5px.
 - Active link should have a background color of #4CAF50.
 - Links should have a hover effect with background color : #4CAF50 and an underline.
2. **Main Blog Section (4 Marks)**
- A title of blog - heading2.
 - It must contain text and an image.
 - Text must be justified with a text-indent of 40px.
 - Images should be 250px x 180px, contain in the container, and should have left margin 20px.
 - Unordered lists should have margin of top and bottom: 10px; left and right: 40px.
 - FreeCodeCamp's HTML and CSS course should be a link to <https://www.freecodecamp.org/news/tag/html/> opens in same page
 - All links in the page should have underline on hover.
3. **Related Blogs Section (5 Marks)**
- Grid layout with 2 at max in row.
 - Each blog entry should have:
 - An image (200px x 200px, contain in the container, and should have padding top and bottom: 0; left and right 10px).
 - A heading (h3) with margin-bottom: 15px.
 - A justified description with a “Read More” link.
 - For screens below 1040px, change grid to 1 item in row and remove right padding.
4. **Footer (3 Marks)**
- Background color: #1b63a2
 - Text color: white
 - Padding top and bottom: 15px; left and right: 20px
 - Footer links should be yellow and have text-decoration: none.
 - Add your GitHub profile link to the link

File Structure for Task 2:

- index.html → Contains the main page.
 - styles/styles.css → Contains all CSS styling.
-

Bonus Task: Animation (2 Mark)

Create an engaging animation using CSS. You can choose one of the following:

- **Hover Effects:** Animate buttons, links, or images.
- **Keyframe Animations:** Create a fading text or bouncing image effect.
- **Transitions:** Smoothly transition elements on hover or click.

File for Bonus Task:

- bonus.html → Showcases the animation.
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Submission Instructions

1. Ensure all files are properly named and placed in the respective directories.
2. The expected output for Task 2 should resemble **Expected_Output.png**.
3. Submit the complete project folder in both GitHub and Moodle.

Good luck!