KAPsLOCK
Student Weekly Internship Report

For Week Ending : <u>13-04-2024</u>

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Hours Worked:15

Day	Date	Hours Worked
Monday	08-04-2024	03 hours
Tuesday	09-042024	03 hours
Wednesday	10-04-2024	03 hours
Thursday	-	-
Friday	12-04-2024	03 hours
Saturday	13-04-2024	03 hours

Week Summary:

HTML (HyperText Markup Language) is the standard language used to create and design documents on the World Wide Web. It structures content using a series of elements, which are represented by tags.

HTML Syntax

HTML syntax is the set of rules and conventions used to write HTML documents. It includes:

- **Elements:** Basic building blocks defined by tags.
- **Tags:** Keywords enclosed in angle brackets, like `<html>`, `<body>`, and `<p>`.
- **Attributes:** Provide additional information about elements, written within the opening tag, such as `class`, `id`, and `href`.
- **Content:** The text or other elements nested between opening and closing tags.

HTML Tags

Tags define the structure and layout of a web document. Some common HTML tags include:

- **`<html>`**: Root element that wraps the entire document.
- **`<head>`**: Contains meta-information like **`<title>`**, **`<meta>`**, and **`<link>`**.
- **`<body>`**: Contains the content of the document like text, images, links, etc.
- **`<p>`**: Paragraph.
- **`<h1>`** to **`<h6>`**: Headings.
- **`<a>`**: Anchor (link).
- **`<img>`**: Image.
- **`<div>`**: Division or section.
- **`<span>`**: Inline container.
- **`<form>`**: Form for user inputs.

Uses of HTML

HTML is used to:

- Structure web pages and web applications.

- Embed images, videos, and other multimedia.

- Create hyperlinks to navigate between pages.

- Build forms to collect user input.

- Develop interactive elements when combined with CSS and JavaScript.

1.HTML Forms Implementation:

- **Text Inputs**: Text inputs allow users to enter single-line or multi-line text. They are created using the **`<input>`** element with the **`type="text"`** attribute.

  Eg: <label for="username">Username:</label>

  <input type="text" id="username" name="username">

- **Checkboxes**: Checkboxes allow users to select one or more options from a list of choices. They are created using the **`<input>`** element with the **`type="checkbox"`** attribute.

  Eg: <input type="checkbox" id="option1" name="option1" value="option1">

  <label for="option1">Option 1</label>

  <input type="checkbox" id="option2" name="option2" value="option2">

  <label for="option2">Option 2</label>

- **Radio Buttons**: Radio buttons allow users to select only one option from a list of choices. They are created using the `<input>` element with the `type="radio"` attribute.

  Eg: <input type="radio" id="male" name="gender"   value="male">

  <label for="male">Male</label>

  <input type="radio" id="female" name="gender" value="female">

  <label for="female">Female</label>

- **Dropdown Menus (Select Boxes)**: Dropdown menus allow users to select one option from a list of choices displayed in a dropdown. They are created using the `<select>` element with nested `<option>` elements.

  Eg: <label for="cars">Choose a car:</label>

      <select id="cars" name="cars">

      <option value="volvo">Volvo</option>

       <option value="saab">Saab</option>

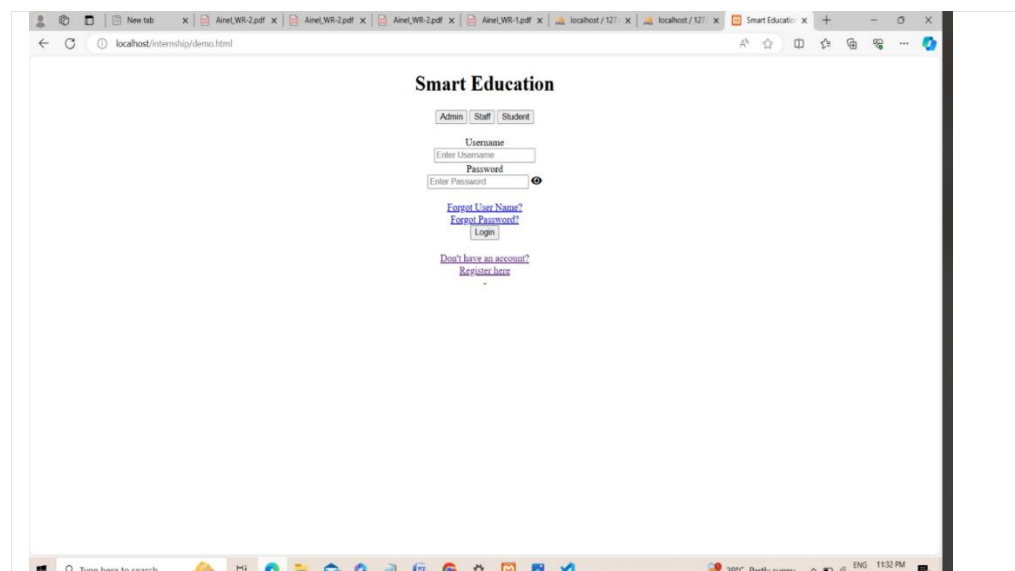   <option value="fiat">Fiat</option>

       <option value="audi">Audi</option>

  </select>

- Ensured proper validation and handling of user inputs to maintain data integrity.

2.HTML Duties Performed:

- Developed HTML templates for various educational modules, ensuring consistency and ease of navigation.
- Collaborated with the design team to integrate visual elements seamlessly into the HTML structure.

3.Facts and Procedures Learned:

- Deepened understanding of HTML fundamentals, including tags, attributes, and their respective roles in web development.
- Explored best practices for creating accessible and responsive HTML content to cater to diverse user needs.

Skills Mastered:

1. **Problem-Solving:**

   - Overcame challenges related to cross-browser compatibility and responsive design to deliver a seamless user experience across different devices.

2. **Collaboration:**

   - Worked closely with peers and mentors to brainstorm ideas and address technical issues, fostering a collaborative work environment.

3. **Time Management:**

   - Effectively prioritized tasks to meet project deadlines without compromising on the quality of work.

Observations Made:

- **User Engagement:**

   - Noticed increased engagement among users with the introduction of interactive HTML forms, encouraging active participation and learning.

Conclusion: Overall, this week was productive in advancing the development of smart education modules focused on basic HTML. I look forward to building upon these achievements and contributing further to the success of the project

Date : <u>13-04-2024</u>

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