**TUTORIAL 3 - CSS, HTML**

Repo link: <https://github.com/tinkerness/S7_Web_Programming/tree/main/tutorials/tut3>

Hosted link: <https://tinkerness.github.io/S7_Web_Programming/tutorials/tut3/index.html>

1. **How will you navigate between sections in the same web page? Illustrate with appropriate example?**

Internal Linking is the mechanism that enables the user to jump between locations in the same document. It is useful for documents that contain many sections. Clicking an internal link enables the user to find a section without scrolling through the entire document.

A tag with id attribute can create an internal hyperlink. To link to a tag with this attribute, the href attribute of an anchor element includes the id attribute value, preceded by a pound sign.

<!DOCTYPE html>

<html>

<head>

    <title>Internal Links</title>

</head>

<body>

    <header>

        <h1>Welcome</h1>

        <p>This is the example of Internal Linking</p>

    </header>

    <nav>

        <ul>

            <li><a href="#section1">Section 1</a></li>

            <li><a href="#section2">Section 2</a></li>

            <li><a href="#section3">Section 3</a></li>

        </ul>

    </nav>

    <section id="section1">

        <h2>Section 1</h2>

        <p>This is the first section of the page.</p>

    </section>

    <section id="section2">

        <h2>Section 2</h2>

        <p>This is the second section of the page.</p>

    </section>

    <section id="section3">

        <h2>Section 3</h2>

        <p>This is the third section of the page.</p>

    </section>

</body>

</html>

1. **Create a HTML form for registering to a jobsite which includes fields to enter your name,address,e-mail,contact number, a date picker to include your date of birth,radio buttons to select you sex,check boxes to show your area of interest, a selection list to input your experience with a submit and reset button. All fields must be labelled appropriately?**

<!DOCTYPE html>

<head>

    <title>Job Form</title>

</head>

<body>

    <h1>Job Site Registration</h1>

    <form action="index.html" method="post">

        <label for="Name"> Name: </label>

        <input type="text" name="Name" required><br><br>

        <label for="Address"> Address: </label>

        <textarea name="Address" rows="3" required>

        </textarea><br><br>

        <label for="Email"> Email: </label>

        <input type="email" name="Email" required><br><br>

        <label for="Contact\_Num"> Contact No.: </label>

        <input type="text" name="Contact\_Num" required><br><br>

        <label for="DOB"> Date of Birth: </label>

        <input type="date" name="DOB" required><br><br>

        <label for="Gender"> Gender: </label>

        <label for="male"><input type="radio" id="male" name="Gender" value="Male" > Male </label>

        <label for="female"><input type="radio" id="female" name="Gender" value="Female" > Female </label><br><br>

        <label for="interest"> Area of Interest: </label><br>

        <label for="webdev"><input type="checkbox" id="webdev" name="interest" value="Web Development" checked> Web Development </label><br>

        <label for="appdev"><input type="checkbox" id="appdev" name="interest" value="App Development"> App Development </label><br>

        <label for="ai"><input type="checkbox" id="ai" name="interest" value="AI"> AI </label><br>

        <label for="ui"><input type="checkbox" id="ui" name="interest" value="UI"> UI </label><br><br>

        <label for="exp"> Experience: </label>

        <select name="exp">

            <option value="0-1 years"> 0-1 years </option>

            <option value="2-3 years"> 2-3 years </option>

            <option value="4-5 years"> 4-5 years </option>

            <option value="6-10 years"> 6-10 years </option>

        </select>

        <br><br>

        <input type="submit" value="Submit">

        <input type="reset" value="Reset">

    </form>

</body>

</html>

1. **Develop HTML code to create the following web page?**



<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Image Search</title>

</head>

<body>

    <header style="text-align: center;"><h1>Image Searching Website</h1></header>

    <hr>

    <label for="img\_search"> Search your Image here: </label>

    <input type="search" id="img\_search" name="img\_search">

    <input type="button" value="search">

    <br><br><br>

    <a href="https://images.google.com/">For more click here</a>

    <hr>

    <form action="index.html" method="">

        <label> Feedback Form: </label><br>

        <label> Name: </label><br>

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

        <label> Date: </label><br>

        <input type="date" name="date" id="date"><br>

        <label> Comment: </label><br>

        <textarea name="comment" id="comment" rows="4" cols="50"></textarea><br><br>

        <input type="submit"  value="Submit"><br>

    </form>

</body>

</html>

1. **Give the syntax to create hyperlinks in HTML? List any 3 target attributes and their purpose associated with hyperlinks? Also how will you identify an active link, visited link and unvisited link?**

To create hyperlinks in HTML, you use the <a> (anchor) element. The basic syntax for creating a hyperlink is as follows:

<a href="URL">Link Text</a>

* **href**: This attribute specifies the URL (Uniform Resource Locator) to which the link points. It can be an absolute URL (e.g., **https://www.example.com**) or a relative URL (e.g., **page.html**).
* **Link Text**: This is the text or content that will be displayed to the user as the clickable link.

**Three Common Target Attributes for Hyperlinks:**

1. **\_blank**: Opens the linked page in a new browser window or tab.

Example : <a href="https://www.example.com" target="\_blank">Visit Example</a>

1. **\_self**: Opens the linked page in the same window or tab that the link was clicked.

Example : <a href="page.html" target="\_self">Go to Page</a>

1. **\_parent**: Opens the linked page in the parent frame or window, useful when using frames or iframes.

Example : <a href="parent.html" target="\_parent">Go to Parent Page</a>

**Active, Visited, and Unvisited Links:**

We can style hyperlinks to differentiate between active (currently being clicked), visited (previously clicked), and unvisited (not yet clicked) links using the following CSS pseudo-classes:

a:link {

/\* Unvisited Link \*/

color: blue;

}

a:visited {

/\* Visited Link \*/

color: purple;

}

a:hover {

/\* Hovered Link \*/

color: red;

}

a:active {

/\* Active Link (during click) \*/

color: green;

}

**5. Write CSS and the corresponding HTML code for the following:**

* 1. **Set the background color for the hover and active link states to "green"**

<!DOCTYPE html>

<html>

<head>

<title>Hover and Active Link</title>

</head>

<body>

<a href="#home" class="custom-link">HOME</a>

</body>

</html>

<style>

.custom-link:hover,

.custom-link:active {

background-color: green;

}

</style>

* 1. **Set the list style for unordered lists to "square".**

<!DOCTYPE html>

<html>

<head>

<title>Styled List</title>

</head>

<body>

<ul class="square-list">

<li>Chrysanthemums </li>

<li>Gerberas </li>

<li>Anthuriums </li>

<li>Sunflowers</li>

</ul>

</body>

</html>

<style>

.square-list {

list-style-type: square;

}

</style>

* 1. **Set "Flower.png" as the background image of the page .**

<!DOCTYPE html>

<html>

<head>

<title>Background Image</title>

</head>

<body>

<!-- Content of the page -->

</body>

</html>

<style>

body {

background-image: url('flower.png');

background-repeat: no-repeat;

background-size: cover;

}

</style>

* 1. **Set dashed border for left and right and double border for top & bottom of a table with 2 rows.**

<!DOCTYPE html>

<html>

<head>

<title>Styled Table</title>

<link rel="stylesheet" type="text/css" href="styles.css">

</head>

<body>

<table>

<tr>

<td>Row 1, Cell 1</td>

<td>Row 1, Cell 2</td>

</tr>

<tr>

<td>Row 2, Cell 1</td>

<td>Row 2, Cell 2</td>

</tr>

</table>

</body>

</html>

. table{

border-left: 2px dashed black;

border-right: 2px dashed black;

border-top: 2px double black;

border-bottom: 2px double black;

}