# Basic Web Design

**HTML** 

**LECTURE - 05** 









### Recap

- HTML Color, Table
- HTML Images, Block & Inline Elements,
- Homework: Updating CV with images and tables
- Class work: Design a html table that present the student list in our training session

### **Course Contents**

- . Tables
- . HTML Div
- . Id & Classes
- . HTML Links <a>
- . HTML Forms

### HTML Links <a>

- HTML links are hyperlinks. The HTML <a> tag defines a hyperlink.
- Which are clickable links that navigate the user to another webpage, a
  different section of the same page, or initiate a file download.
- When you move the mouse over a link, the mouse arrow will turn into a little hand.
- The <a> tag is defined with the href attribute, which specifies the destination URL.
- <a href="https://www.edge.com">Visit EDGE website!</a>
  HTML Links

Visit EDGE website!









## Basic Usage of <a> Tag

- Linking to External Websites:
  - <a href="https://www.google.com">Go to Google</a>
- Linking to Internal Pages:
  - <a href="about.html">About Us</a>
- Linking to a Section on the Same Page:

  <a href="#section2">Go to Section 2</a>
  <a href="#section2">Section 2</h>>

  - Content for section 2.

#### **Email Links:**

Use mailto: to create a link that opens the user's default email client.

```
<a href="mailto:someone@example.com">Send Email</a>
```

#### Telephone Links:

Use tel: to create a link that opens the phone dialer on mobile devices.

<a href="tel:+1234567890">Call Us</a>









## Attributes of the <a> Tag

- By default, the linked page will be displayed in the current browser window.
   To change this, you must specify another target for the link.
- The target attribute specifies where to open the linked document.
- The target attribute can have one of the following values:
  - \_self Default. Opens the document in the same window/tab as it was clicked
  - \_blank Opens the document in a new window or tab
  - \_parent Opens the document in the parent frame
  - \_top Opens the document in the full body of the window
  - \_download -Prompts the user to download a file instead of navigating to the link.

<a href="https://www.w3schools.com/" target="\_blank">Visit W3Schools!</a>









## Styling Links <a> Tag

- Default Link Styles Links are typically underlined and blue by default.
- Customizing Link Styles:

Custom Styled Link









### **HTML Forms**

- An HTML form is a section of a webpage that contains interactive controls, such as text fields, checkboxes, radio buttons, and submit buttons, allowing users to enter and submit data to a server.
- Forms are created using the <form> tag, which typically includes various input elements.
- Example:
- <form action="/submit-form" method="POST">
- <!-- Form elements go here -->
- </form>

action: Specifies the URL where the form data will be sent.

method: Defines the HTTP method used to send data (GET or POST).









### **HTML Form Elements**

Tag	Description
<form></form>	Defines an HTML form for user input
<input/>	Defines an input control
<textarea>&lt;/td&gt;&lt;td&gt;Defines a multiline input control (text area)&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;label&gt;&lt;/td&gt;&lt;td&gt;Defines a label for an &lt;input&gt; element&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;fieldset&gt;&lt;/td&gt;&lt;td&gt;Groups related elements in a form&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;legend&gt;&lt;/td&gt;&lt;td&gt;Defines a caption for a &lt;fieldset&gt; element&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;select&gt;&lt;/td&gt;&lt;td&gt;Defines a drop-down list&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;optgroup&gt;&lt;/td&gt;&lt;td&gt;Defines a group of related options in a drop-down list&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;option&gt;&lt;/td&gt;&lt;td&gt;Defines an option in a drop-down list&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;button&gt;&lt;/td&gt;&lt;td&gt;Defines a clickable button&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;datalist&gt;&lt;/td&gt;&lt;td&gt;Specifies a list of pre-defined options for input controls&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;output&gt;&lt;/td&gt;&lt;td&gt;Defines the result of a calculation&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</textarea>	







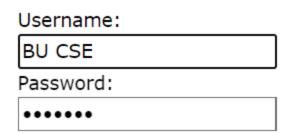


<input type="text"> defines a single-line text input field

First name:	
Last name:	

<input type="password"> defines a password field

```
<form>
  <label for="username">Username:</label><br>
  <input type="text" id="username" name="username"><br>
  <label for="pwd">Password:</label><br>
  <input type="password" id="pwd" name="pwd">
  </form>
```









<form>



<input type="submit"> defines a button for submitting form data to
a form-handler. The form-handler is typically a server page with a script

for processing input data.

BU Last name:

CSE

Submit

First name:

<input type="button"> defines a button

<input type="button" onclick="alert('Hello World!')" value="Click Me!">

Click Me!

www.w3schools.com says
Hello World!









<input type="radio"> defines a radio button. Radio buttons let a user select ONLY ONE of a limited number of choices

```
<input type="radio" id="html" name="fav language" value="HTML">
                                                                                          \circ HTML
<label for="html">HTML</label><br>
<input type="radio" id="css" name="fav language" value="CSS">
                                                                                          \circ css
<label for="css">CSS</label><br>
<input type="radio" id="javascript" name="fav language" value="JavaScript">
                                                                                          JavaScript
<label for="javascript">JavaScript</label>
```

<input type="checkbox"> defines a checkbox. Checkboxes let a user select ZERO or MORE options of a limited number of choices.

```
<form:
 <input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
                                                                                              \square I have a bike
 <label for="vehicle1"> I have a bike</label><br>
                                                                                              \square I have a car
 <input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
 <label for="vehicle2"> I have a car</label><br>
                                                                                              ☐ I have a boat
  <input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
  <label for="vehicle3"> I have a boat</label>
```







</form>

</form>



The <input type="dropdown"> defines a select from options.

The <input type="search"> is used for search fields (a search field behaves like a regular text field).









The <input type="file"> defines a file-select field and a "Browse" button for file uploads.

The <input type="date"> is used for picking date month year









### HTML Form Validation

#### **Client-Side Validation:**

HTML5 provides built-in validation attributes such as required, minlength, maxlength, and pattern to ensure users enter valid data.

#### Example:

```
<label for="email">Email:</label>
<input type="email" id="email" name="email" required>
```

#### **Custom Validation Messages:**

You can provide custom error messages using the title attribute or JavaScript.

#### Example:

```
<label for="password">Password (at least 8 characters):</label>
<input type="password" id="password" name="password" minlength="8" required
title="Password must be at least 8 characters long">
```









### HTML Form Submission Methods

#### **GET Method:**

Appends form data to the URL as query parameters.

Suitable for non-sensitive data and when bookmarking or sharing the form's results is useful.

#### **POST Method:**

Sends form data in the body of the HTTP request.

Used for sensitive data or when a large amount of data is being submitted.

#### Example:

- <form action="/submit-form" method="GET"> ... </form>
- <form action="/submit-form" method="POST"> ... </form>









### Homework

(Design a HTML form as below)

#### **Student Data**

Name Enter Your name
Roll
Email
Gender O Male O Female O Other
date fo Birth dd/mm/yyyy
Skills $\square$ HTML $\square$ CSS $\square$ Bootstrap
Insert









# End of Lecture THANKYOU





