Introduction to Web Technology

Course Code: **CSC 3222**   Course Title: WEB TECHNOLOGIES

Dept. of Computer Science
Faculty of Science and Technology

Lab No:	1	Week No:	1	Semester:	
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Lecture Outline

1. **Learning Objectives**
2. **HTML Tags and Elements**
3. **HTML Attributes**
4. **HTML Forms**

    I. **HTML Forms Example**

    II. **HTML Form Elements**

    III. **HTML Input Types**

5. **Books and References**

Learning Objectives

- In this Lab, we will learn about HTML document, HTML Tags, Elements and Attributes.
- To write html, we need a text editor; e.g. sublime text or Vscode or any editor and web browser.
- Design and develop HTML document; e.g. html page, html form, etc.

HTML Tags and Elements

- An HTML element usually consists of a **start** tag and an **end** tag, with the content inserted in between.

Start tag	Element content	End tag
<h1>	My First Heading	</h1>
<p>	My first paragraph.	</p>

HTML Attributes

- All HTML elements can have attributes
- Attributes provide additional information about an element
- Attributes are always specified in the start tag
- Attributes usually come in name/value pairs like: name="value"
- Example : HTML links are defined with the <a> tag. The link address is specified in the href attribute.

```
<a href="https://www.aiub.edu">AIUB</a>
<img src="img_girl.jpg">
```

- Please explore all Elements/ Tags/ attributes from https://www.w3schools.com/ one by one.

HTML Forms

- The HTML <form> element defines a form that is used to collect user input.

`<form>`

`form elements`

`</form>`

- Form elements are different types of input elements, like: text fields, checkboxes, radio buttons, submit buttons, and more.

Type	Description
<input type="text">	Defines a single-line text input field
<input type="radio">	Defines a radio button (for selecting one of many choices)
<input type="submit">	Defines a submit button (for submitting the form)

HTML Forms Example

```html
<form>
  <label for="fname">First name:</label><br>
  <input type="text" id="fname" name="fname"><br>
  <label for="lname">Last name:</label><br>
  <input type="text" id="lname" name="lname">
</form>
```

HTML form

First name: [   ]

Last name: [   ]

E-mail: [   ]

○ Male
○ Female

[Submit] [Reset]

HTML Form Elements

- The <input> Element

```
<input type="text" id="firstname" name="firstname">
```

- The <textarea> Element
- ```
  <textarea name="message" rows="10" cols="30">
  The cat was playing in the garden.
  </textarea>
  ```
- See more input type
  https://www.w3schools.com/html/html_form_input_types.asp

HTML Input Types

- Here are the different input types you can use in HTML:

```
<input type="button">
<input type="checkbox">
<input type="email">
<input type="file">
<input type="hidden">
<input type="image">
<input type="month">
<input type="number">
<input type="password">
<input type="radio">
<input type="range">
```

- See more input type
  https://www.w3schools.com/html/html_form_input_types.asp

Your Task

- Write necessary HTML script to achieve the below-given layout of a "Registration Page".
- Design a static personal web site including all your information.

Books

- W3Schools Online Web Tutorials; URL: http://www.w3schools.com
- PHP Documentation; URL: http://www.php.net/docs.php
- Sams Teach Yourself Ajax JavaScript and PHP All in One; Phil Ballard and Michael Moncur; Sams Publishing; 2010
- JavaScript Phrasebook; Christian Wenz; Sams Publishing; 2007
- PHP and MySQL Web Development, 4/E; Luke Welling and Laura Thomson; Addison-Wesley Professional; 2009
- JavaScript for Programmers Paul J. Deitel and Harvey M. Deitel; Prentice Hall; 2009
- Beginning PHP5, Apache, and MySQL Web Development; Elizabeth Naramore, Jason Gerner, Yann Le Scouarnec, Jeremy Stolz and Michael K. Glass; Wiley Publishing; 2005
- XML in a Nutshell, 3/E; Elliotte Rusty Harold and W. Scott Means; O'Reilly Media; 2004

References

1. https://www.ntu.edu.sg/home/ehchua/programming/webprogramming/HTTP_Basics.html
2. https://developer.mozilla.org/enUS/docs/Web/HTTP/Status
3. https://www.w3schools.com/html/html_intro.asp
4. https://www.w3schools.com/html/html_xhtml.asp