**Lab 11 – Basics of HTML and CSS II**

**Lab Outcomes:**

* Basic use of CSS
* How to make a Form
* How to add list and table in a web page
* How to add table in a web page
* How to add audio and video file

**Introduction:**

### Tables

An HTML table is defined with the <table> tag.Each table row is defined with the <tr> tag. A table header is defined with the <th> tag. By default, table headings are bold and centered. A table data/cell is defined with the <td> tag.

<table style="width:100%">

<tr>

<th>Firstname</th>

<th>Lastname</th>

<th>Age</th>

</tr>

<tr>

<td>Jill</td>

<td>Smith</td>

<td>50</td>

</tr>

</table>

### Adding a Border

If you do not specify a border for the table, it will be displayed without borders.

A border is set using the CSS border property:

### Adding Cell Padding

Cell padding specifies the space between the cell content and its borders. If you do not specify a padding, the table cells will be displayed without padding. To set the padding, use the

CSS padding property:

### Adding Border Spacing

Border spacing specifies the space between the cells.

To set the border spacing for a table, use the CSS border-spacing property:

* **Forms**

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

* + <input type="button">
  + <input type="checkbox">
  + <input type="color">
  + <input type="date">
  + <input type="datetime-local">
  + <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">
  + <input type="reset">
  + <input type="search">
  + <input type="submit">
  + <input type="tel">
  + <input type="text">
  + <input type="time">
  + <input type="url">
  + <input type="week">

### Input Type Text

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

<form>

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

</form>

### Example

<form>

First name:<br>

<input type="text" name="firstname"><br> Last name:<br>

<input type="text" name="lastname">

</form>

### Some Important Input Types

* + <input type="password"> defines a **password field**
  + <input type="submit"> defines a button for **submitting** form data to a **form-handler**

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

* + <input type="reset"> defines a **reset button** that will reset all form values to their default values

<input type="reset">

* + <input type="radio"> defines a **radio button**

<input type="radio" name="gender" value="male">Male

* + <input type="checkbox"> defines a **checkbox**

<input type="checkbox" name="vehicle1" value="Bike">CheckBox<br>

* + <input type="button"> defines a **button**

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

* + The <input type="date"> is used for input fields that should contain a date

<input type="date" name="bday" max="1979-12-31">

* + The <input type="datetime-local"> specifies a date and time input field, with no time zone
  + The <input type="email"> is used for input fields that should contain an e-mail address
  + The <input type="range"> defines a control for entering a number whose exact value is not important (like a slider control). Default range is 0 to 100. However, you can set restrictions on what numbers are accepted with the min, max, and step attributes
  + The <input type="search"> is used for search fields (a search field behaves like a regular text field).
  + The <input type="tel"> is used for input fields that should contain a telephone number

### Telephone:

**<input type="tel" name="usrtel"><br>**

### Telephone: <input type="tel" name="phone" pattern="[0-9]{3}-[0-9]{2}-[0-9]{3}" required><input type="submit">

**<span>Format: 123-45-678</span><br>**

* + The <input type="time"> allows the user to select a time (no time zone).

### Select a time:

**<input type="time" name="usr\_time">**

### <input type="submit">

* + The <input type="week"> allows the user to select a week and year.

### Example:

Birthday (date and time):

<input type="datetime-local" name="bdaytime"><br> Range

<input type="range" name="points" min="0" max="10"><br> Telephone:

<input type="tel" name="usrtel"><br> E-mail:

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

Select a file: <input type="file" name="myFile"><br> Birthday (month and year):

<input type="month" name="bdaymonth"><br> Quantity (between 1 and 5):

<input type="number" name="quantity" min="1" max="5"><br> Quantity:

<input type="number" name="points" min="0" max="100" step="10" value="30"><br>

Range

<input type="range" name="points" min="0" max="10"><br> Search Google:

<input type="search" name="googlesearch"><br> Add your homepage:

<input type="url" name="homepage"><br> Select a time:

<input type="time" name="usr\_time"><br> Select a week:

<input type="week" name="week\_year">

* **Lists**

HTML provides a simple way to show unordered lists (bullet lists) or ordered lists (numbered lists).

### Unordered HTML List

An unordered list starts with the <ul> tag. Each list item starts with the <li> tag. The list items will be marked with bullets (small black circles) by default.

The CSS list-style-type property is used to define the style of the list item marker:

|  |  |
| --- | --- |
| **Value** | **Description** |
| Disc | Sets the list item marker to a bullet (default) |
| Circle | Sets the list item marker to a circle |
| Square | Sets the list item marker to a square |

|  |  |
| --- | --- |
| None | The list items will not be marked |

### Example - Disc

<ul style="list-style-type:disc">

<li>Coffee</li>

<li>Tea</li>

<li>Milk</li>

</ul>

### Ordered HTML List

An ordered list starts with the <ol> tag. Each list item starts with the <li> tag.The list items will be marked with numbers by default.

The type attribute of the <ol> tag, defines the type of the list item marker:

|  |  |
| --- | --- |
| **Type** | **Description** |
| type="1" | The list items will be numbered with numbers (default) |
| type="A" | The list items will be numbered with uppercase letters |
| type="a" | The list items will be numbered with lowercase letters |
| type="I" | The list items will be numbered with uppercase roman numbers |
| type="i" | The list items will be numbered with lowercase roman numbers |

### Example: Numbers

<ol type="1">

<li>Coffee</li>

<li>Tea</li>

<li>Milk</li>

</ol>

### HTML Description Lists

HTML also supports description lists. A description list is a list of terms, with a description of each term. The <dl> tag defines the description list, the <dt> tag defines the term (name), and the <dd> tag describes each term:

### Example

<dl>

<dt>Coffee</dt>

<dd>- black hot drink</dd>

<dt>Milk</dt>

<dd>- white cold drink</dd>

</dl>

* **Multimedia**

Multimedia comes in many different formats. It can be almost anything you can hear or see. Examples: Images, music, sound, videos, records, films, animations, and more. Web pages often contain multimedia elements of different types and formats

### Multimedia Formats

Multimedia elements (like audio or video) are stored in media files. The most common way to discover the type of a file, is to look at the file extension. Multimedia files have formats and different extensions like: .swf, .wav, .mp3, .mp4, .mpg, .wmv, and .avi.

### HTML Audio

<audio controls>

<source src="horse.mp3" type="audio/mpeg">

</audio>

### HTML Video

<video width="400" controls>

<source src="mov\_bbb.mp4" type="video/mp4">

</video>

### YouTube Video

<iframe width="420" height="345" src="https://[www.youtube.com/embed/tgbNymZ7vqY">](http://www.youtube.com/embed/tgbNymZ7vqY)

</iframe>

## Tasks

* Make two web pages having following definitions
  + First page contains:
  + List of three links (for list style use image) *(Links: About Section, Second page in this task, any other website).*
  + Add Image and write its description.
  + About Section
  + Table (Exactly same as given below)

|  |  |  |  |
| --- | --- | --- | --- |
| **Roll No.** | **Contact** | **Subject** | **Credit Hr.** |
| 105 | 03005443906 | English | 3 |
| 03224667892 |
| 106 | 03085214677 | Islamiat | 3 |
| 123 | 03045672133 | ICT Lab | 2+1 |
| ICT Theory |

* + Second page contains:
  + Make a form containing every information of a student applying for admission in university e.g. Name, DOB, email and Gender.
  + Make all types of lists.
  + Add Video (By Absolute Reference).

**Note:** Use proper format, style and color combination for each page. All pages should be interlinked with each other’s with proper indicator.

**Lab #11 Marks distribution**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **ER1** | **ER6** | **ER8** | **RR5** |
| **Task** | 2 points | 2 points | 4 points | 2 points |

**Lab # 11 Rubric Evaluation Guideline:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Qualities & Criteria** | **0 < Poor <=0.5** | **0.5 < Satisfactory <= 1.5** | **1.5 < Excellent <=2** |
| **ER1** | **Task Completion** | Minimal or no program functionality was achieved. | Some tasks were completed, but the program has errors or incomplete functionalities. | All tasks were completed, and the program runs without errors. |
| **#** | **Qualities & Criteria** | **0 < Poor <=0.5** | **0.5 < Satisfactory <= 1.5** | **1.5 < Excellent <=2** |
| **ER6** | Program Output | Output is inaccurate or poorly presented. | Output is mostly accurate but may lack labels, captions, or formatting. | Output is clear, accurate, and wellpresented with labels, captions, and proper formatting. |
| **#** | **Qualities & Criteria** | **0 < Poor <= 1.5** | **1.5< Satisfactory <= 3** | **3< Excellent <= 4** |
| **ER8** | Question & Answer | Answers some questions but not confidently or based on lab task knowledge. | Answers most questions confidently and based on lab task knowledge. | Answers all questions confidently and demonstrates a deep understanding of the given lab task. |
| **#** | **Qualities & Criteria** | **0 < Poor <=0.5** | **0.5 < Satisfactory <= 1.5** | **1.5 < Excellent <=2** |
| **RR5** | Originality and Acknowledgement | Report contains significant plagiarism (copying content without attribution) or improper paraphrasing of external sources. | Report mostly contains original content, but there may be instances of paraphrasing or borrowing information without proper citation. | Report content is entirely original with proper citations and references for any external information used. |