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|  | CSE 416: Web Engineering Lab  | Lab Manual |
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Goal:

- ☒ Basic web page structure
- ☒ List, Block vs Inline element
- ☒ Some important tags
- ☒ Table, Form
- ☒ Document Structure

## Basic Web Page

### Structure

```
<!DOCTYPE html> <html>
<head>
  <title>Page Title</title>
</head>
<body>
  <h1>This is a Heading</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```

### List

|  |  |
|--|--|
| <pre>&lt;ol&gt;   &lt;li&gt;Coffee&lt;/li&gt;   &lt;li&gt;Tea&lt;/li&gt;   &lt;li&gt;Milk&lt;/li&gt; &lt;/ol&gt;</pre> | <pre>&lt;ul&gt;   &lt;li&gt;Coffee&lt;/li&gt;   &lt;li&gt;Tea&lt;/li&gt;   &lt;li&gt;Milk&lt;/li&gt; &lt;/ul&gt;</pre> |
|--|--|

### Block Vs Inline Element

|   |  |
|---|--|
| <pre>&lt;p style="border: 1px solid black"&gt; Hello World &lt;/p&gt;</pre> <p>&lt;p&gt; Block elements(p) will always start on a new line and take up the full width available&lt;/p&gt;</p> | <pre>&lt;p&gt;This is an inline &lt;span style="border: 1px solid black"&gt; Hello world!&lt;/span&gt; element inside a paragraph &lt;/p&gt;</pre> <p>&lt;p&gt;An inline element(span) will not start on a new line and takes up as much width as necessary &lt;/p&gt;</p> |
|---|--|

# Important Tags

## Anchor Tag

```
<a href="https://www.google.com/"> Google</a>
```

## Image Tag

```

```

## Picture Tag

```
<picture>
  <source media="(min-width:650px)" srcset="img_pink_flowers.jpg">
  <source media="(min-width:465px)" srcset="img_white_flower.jpg"> 
</picture>
```

# Table

```
<style>
  th, td { border: 1px solid black}
</style>
<table style="width:100%">
  <tr>
    <th>Firstname</th>
    <th>Lastname</th>
  </tr>
  <tr>
    <td>Abdullah</td>
    <td>Hasan</td>
  </tr>
  <tr>
    <td>Fatimah</td>
    <td>Hamid</td>
  </tr>
</table>
```

# Form

```
<form method="get" action="/anotherpage.html">
<label for="my_name">Name:</label><br>
<input type="text" id="my_name"><br><br>
<label for="password">Password:</label><br>
<input type="password" id="password"><br><br>
<span>Role:</span><br>
<input type="radio" id="student" value="s" name="role">
<label for="student">Student:</label><br>
<input type="radio" id="teacher" value="t" name="role">
<label for="teacher">Teacher:</label><br><br>
<input type="submit" value="submit">

</form>
```

What happens when you click submit? Why?

What happens when you click on any label? If a label does not have a for attribute what happens?

If you omit the name attribute of radio inputs what change happens in their behavior?

## Lab Task

Class task 1: Make a table to list 5 of your favorite actors/movies/books etc. Use as many tags/concept from/beyond lab manual as you can to get the full mark. (Figure 1)

Class task 2: Design the layout provided below using table. (Figure 2). Try these attributes.

`colspan = "xx" rowspan`  
= "xx" if needed. What does these attributes do? Do they help?

### Favorite Actors

| No. | Image.  | First Name | Last Name  | Age | Hobby                    |
|-----|---|------------|------------|-----|--------------------------|
| 1   |  | Denzel     | Washington | 67  | <a href="#">Swimming</a> |
| 2   |  | Leonardo   | DiCaprio   | 47  | <a href="#">Cooking</a>  |
| 3   |  | Tom        | Hanks      | 65  | <a href="#">Driving</a>  |
| 4   |  | Tom        | Cruise     | 59  | <a href="#">Flying</a>   |
| 5   |  | Brad       | Pitt       | 58  |                          |

Figure 1

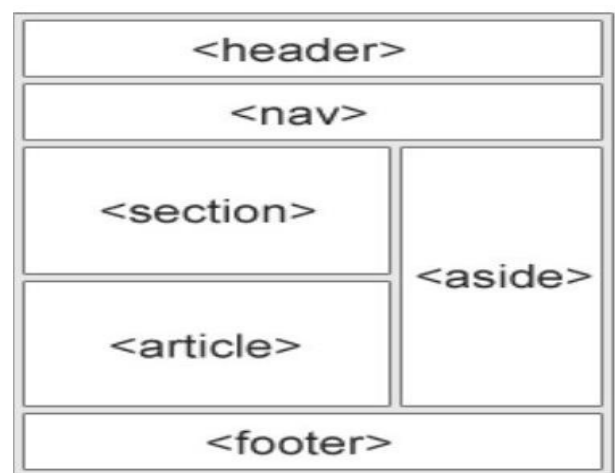


Figure 2

## Assignment

Design a web page following the layout provided below. Submit within 5 days. Minimal use of CSS is enough for this task, focus on the html structure. (Figure 3)

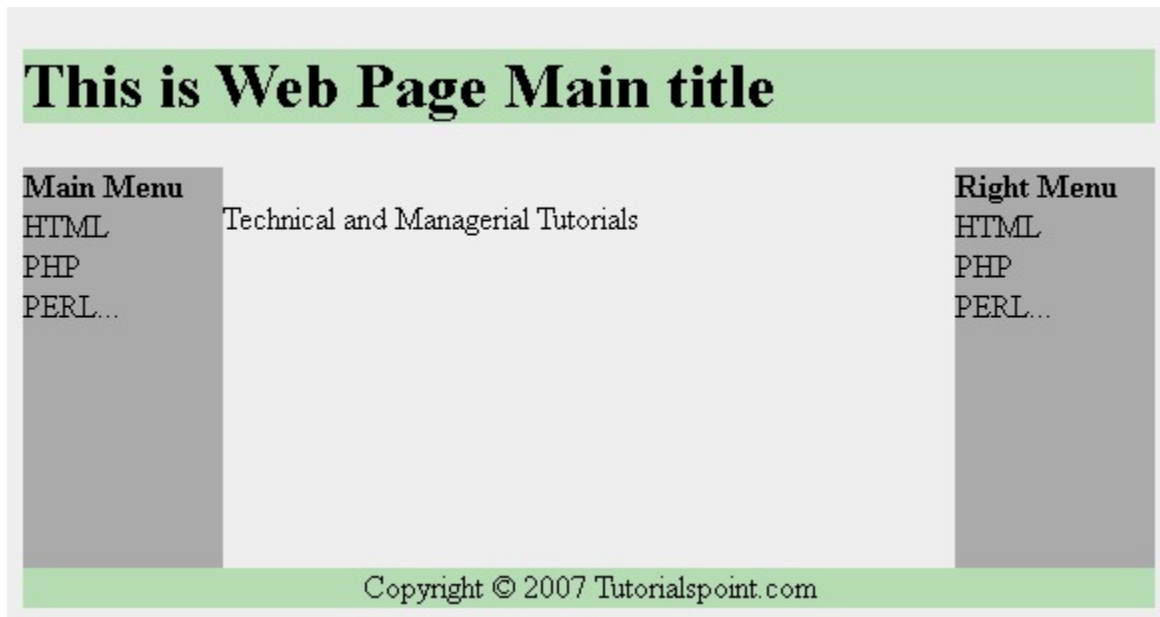


Figure 3: Layout by table (source: [https://www.tutorialspoint.com/html/html\\_layouts.htm](https://www.tutorialspoint.com/html/html_layouts.htm))

## Practice and Learn

Run the following examples from W3schools as per the URL given below. Fiddle with these codes to learn better. Then bring your modified codes in the next class in a pen drive or google drive to discuss.

- A. [https://www.w3schools.com/html/html\\_forms.asp](https://www.w3schools.com/html/html_forms.asp)
- B. [https://www.w3schools.com/html/html\\_forms\\_attributes.asp](https://www.w3schools.com/html/html_forms_attributes.asp)
- C. [https://www.w3schools.com/html/html\\_form\\_elements.asp](https://www.w3schools.com/html/html_form_elements.asp)
- D. [https://www.w3schools.com/html/html\\_form\\_input\\_types.asp](https://www.w3schools.com/html/html_form_input_types.asp)
- E. [https://www.w3schools.com/html/html\\_form\\_attributes.asp](https://www.w3schools.com/html/html_form_attributes.asp)
- F. [https://www.w3schools.com/html/html\\_form\\_attributes\\_form.asp](https://www.w3schools.com/html/html_form_attributes_form.asp)