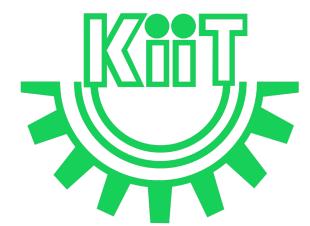


IT-2094: Web Technology

Lec-3

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Form Action

- The action is an attribute of <form> element that specifies the url of the second web page.
- The second page receives the form-data from the first page after the submission of a form.

This attribute specifies the URL of a web page as its value which receives the information of the form filled by the user.

Form Action

- After adding the elements to your form, we need to specify where to send the form data and how to send it. Form data is submitted to a server-side handler or script.
- The attributes are:
 - action: Specifies where to send the form-data when a form is submitted. Form
 data is mostly submitted to a server-side handler, but it can also be JavaScript on
 the client.
 - method: specifies the HTTP method to be used when submitting the form data. The form-data can be sent as URL variables (with method="get") or as HTTP post transaction (with method="post"). The default HTTP method when submitting form data is GET.
 - enctype: Specifies how the form-data should be encoded when submitting it to the server (only for method="post")

Form Action

```
Firefox Web Browser >
                                                                                                                                 Jan 15 23:46
<!DOCTYPE>
<html>
                                                                          /home/iitp/Desktop/Web-Te ×
<form action="javascript:submit()">
 <label>Enter your address</label> <br />
                                                                          \leftarrow \rightarrow C
                                                                                              ite:///home/iitp/Desktop/Web-Technology/class/Forms/try.html
 <input type="text" name="street" placeholder="Street"><br>
                                                                         Enter your address
 <input type="text" name="city" placeholder="City"><br>
                                                                          KIIT Campus-15
 <input type="text" name="state"</pre>
                                                                          Bhubaneswar
placeholder="State"><br><br>
                                                                          Odisha
 <input type="submit" value="Submit"><!--Submit</pre>/button>-->
</form>
                                                                          Submit
<script>
 let submit = () => {
  let values = "";
  values += "Street = " +
document.getElementsByName("street")[0].value + "\n";
  values += "City = " +
                                                                                                               file://
document.getElementsByName("city")[0].value + "\n";
                                                                                                               Street = KIIT Campus-15
  values += "State = " +
                                                                                                               City = Bhubaneswar
                                                                                                               State = Odisha
document.getElementsByName("state")[0].value + "\n";
  alert(values);
</script>
</html>
```

getElementsByName: returns a NodeList Collection of elements with a given name attribute in the document.

Client Side Vs. Server Side

- Web development is an umbrella term for several fields of website creation.
- The primary forms of web development are client-side, server-side, and full-stack development.
- Both client and server-side programs are necessary to make a website function.
- Server-side is the systems that run on the server, while client-side is the software that runs on a user's web browser.
- Client-side web development involves interactivity and displaying data, server-side is about working behind the scenes to manage data.

Client Side

- Client-side developers use their coding skills to create visually appealing, functional, and helpful web applications and dynamic websites.
- These programmers are responsible for every part of a website that users see or interact with.
- Homepages, shopping pages, slideshows—virtually any visible feature that shows up in a web browser or requires user input falls under this discipline.
- All of this software runs on the client's device. Client-side developers are also known as 'front end' programmers, as the 'front' of a web page is what receives user interaction.
- Common scripting languages used by front end developers to create client-side code include JavaScript, HTML, and CSS.

Server Side

- The client-side of a website is simply a display and collection platform for information.
- The site communicates with web servers, using them to retrieve and send data from databases to provide you with the services you need.
- These software developers design, build, and maintain the server-side code that makes this exchange of data possible.
- These programmers are also known as backend developers as they work behind-the-scenes, making sure everything runs as it should on the application servers
- Common languages used by back end developers to create server-side code include
 Python, SQL, Ruby on Rails, PHP, and Java.

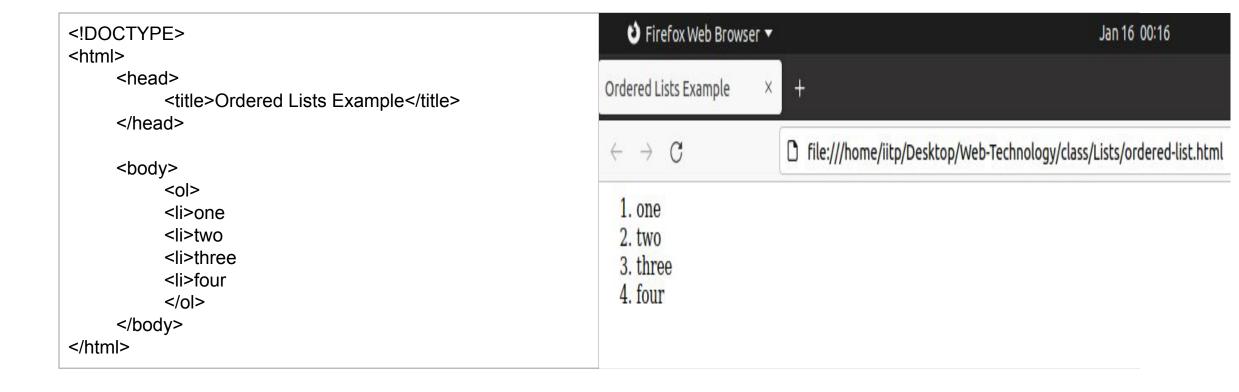
Lists

 HTML Lists are used to specify lists of information. All lists may contain one or more list elements. There are three different types of HTML lists:

- Ordered List or Numbered List (ol)
- Unordered List or Bulleted List (ul)
- Description List or Definition List (dl)

Ordered List or Numbered List

• In the ordered HTML lists, all the list items are marked with numbers by default. It is known as numbered list also. The ordered list starts with tag and the list items start with tag.



Unordered List or Bulleted List

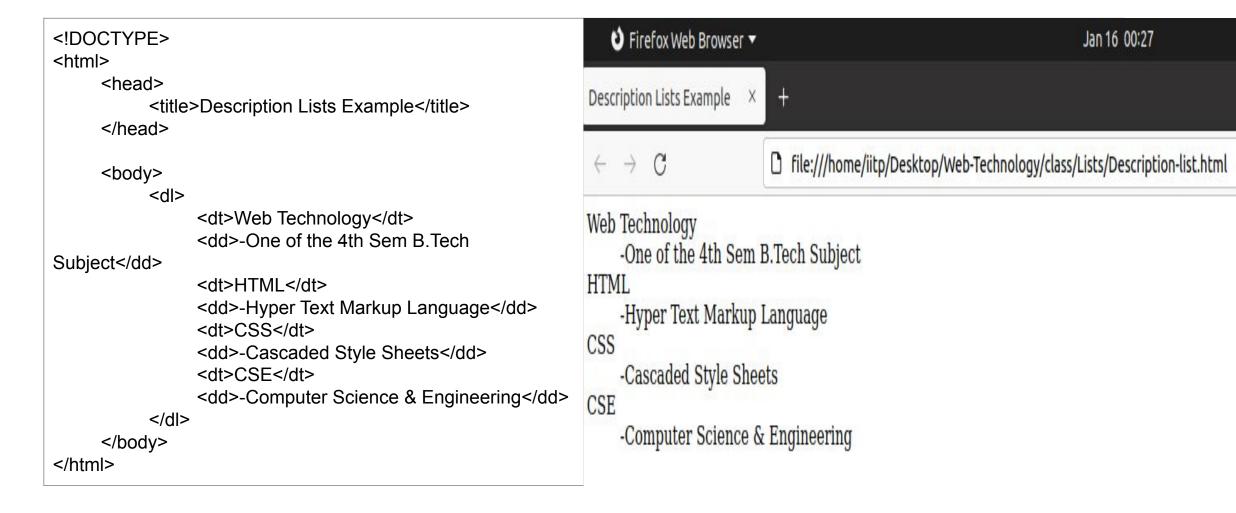
• In HTML Unordered list, all the list items are marked with bullets. It is also known as bulleted list also. The Unordered list starts with tag and list items start with the tag.



Description List or Definition List

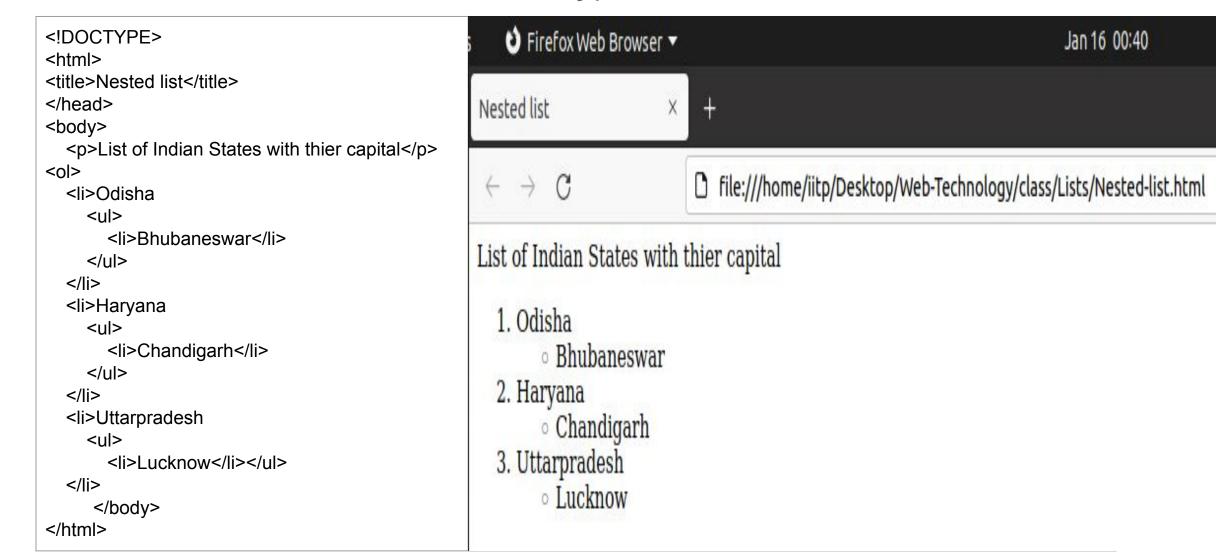
- Description list is also a list style which is supported by HTML and XHTML.
- It is also known as definition list where entries are listed like a dictionary or encyclopedia.
- The HTML definition list contains following three tags:
 - <dl> tag defines the start of the list.
 - <dt> tag defines a term.
 - <dd>tag defines the term definition (description).

Description List or Definition List



Nested List

• A list within another list is termed as nested list. If you want a bullet list inside a numbered list then such type of list will called as nested list.



HTML Tables

- HTML table tag is used to display data in tabular form (row * column).
 There can be many columns in a row.
- Tables can be created, using element, with the help of
 , and elements.
- In Each table:
 - table row is defined by tag
 - table header is defined by tag
 - o and table data is defined by tags.

HTML Tables

- Border value indicates the thickness of the outermost table boundary in pixels.
- Caption describes the title of table data.
- The width or height properties to specify the size of a table, row or column.

• Using a percentage as the size unit for a width means how wide will this element be compared to its parent element, which in this case is the <body> element.

ð Firefox Web Browser ▼ <!DOCTYPE> Jan 16 00:59 <html> <head> <title>Table Example-I</title> Table Example-I <head> <body> **⊘** ∃ ite:///home/iitp/Desktop/Web-Technology/class/Tables/Table-I.html $\leftarrow \rightarrow G$ <caption>Table Structure</caption> Cell Row1 Col1 Table Structure Cell Row1 Col2 Cell Row1 Col1 Cell Row1 Col2 Cell Row2 Col1 Cell Row2 Col1 Cell Row2 Col2 Cell Row2 Col2 </body></html>

HTML Tables Align

- The HTML align Attribute is used to specify the alignment of the table and its content. Align Options: left, right, center
- The HTML valign Attribute is used to specify the vertical alignment of text content in a cell. valign Options: top, middle, bottom, baseline



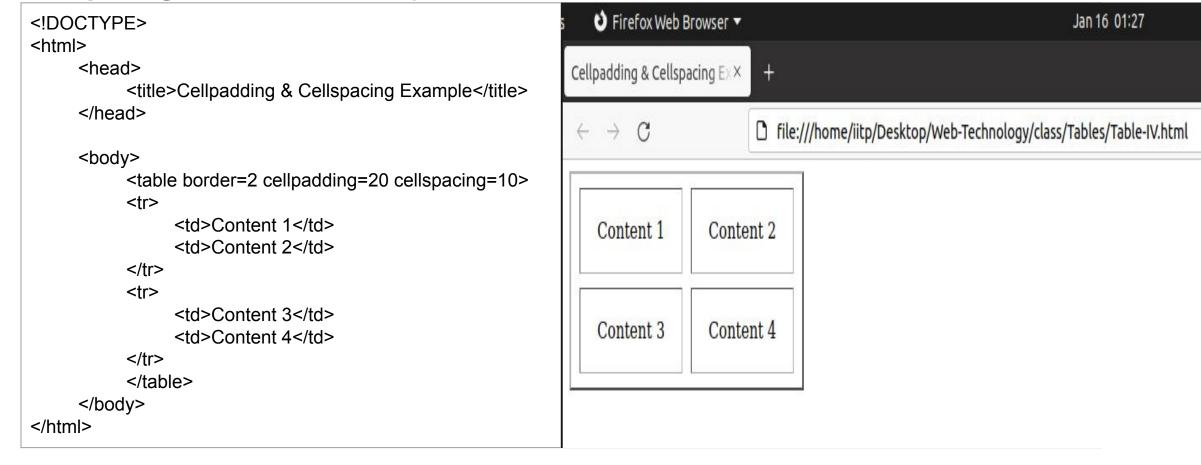
Table Header

• Table Header helps to understand the meaning of data in a row/column



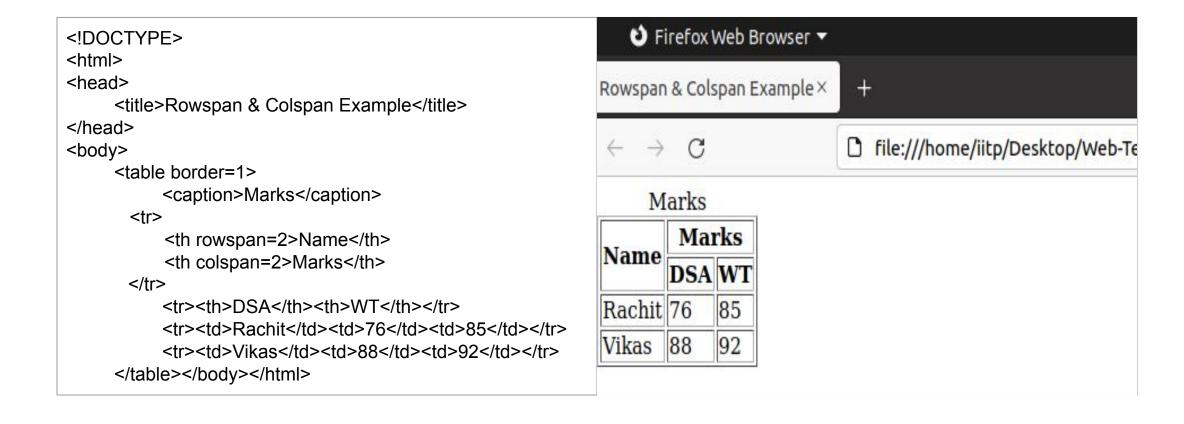
HTML Tables: Cellpadding & Cellspacing

- Cellpadding is the amount of space between the edges of the cell and cell content.
- Cellspacing is the amount of space between the cell borders.



HTML Tables: Rowspan and Colspan

- Rowspan indicates the number of rows a cell spans
- Colspan indicates the number of columns a cell spans.



HTML Frames

- A web page may be divided into several blocks called frames.
- Each frame may display a separate web page
- Frames are used to have the menu in one frame and the content in another frame
- HTML frames are used to divide your browser window into multiple sections where each section can load a separate HTML document.
- A collection of frames in the browser window is known as a **frameset**. The window is divided into frames in a similar way the tables are organized: into rows and columns.

HTML Frames

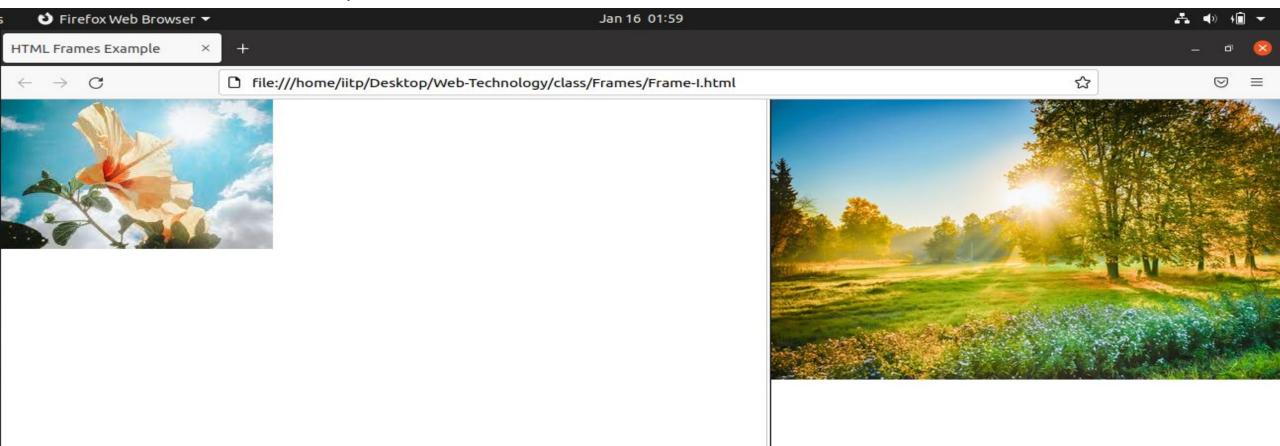
- To use frames on a page we use <frameset> tag instead of <body> tag.
- The <frameset> tag defines, how to divide the window into frames.
 - The rows attribute of <frameset> tag defines horizontal frames and cols attribute defines vertical frames.
 - Each frame is indicated by <frame> tag and it defines which HTML document shall open into the frame.

HTML Frames: Frameset Cols

```
<!DOCTYPE>
<html>
 <head>
   <title>HTML Frames Example</title>
 </head>
 <frameset cols = "60%,40%">
   <frame scrolling="No" src = "/home/iitp/Desktop/Web-Technology/class/Frames/download.jpeg" />
   <frame src = "/home/iitp/Desktop/Web-Technology/class/Frames/sunshine.jpg" />
 </frameset>
</html>
```

HTML Frames: Frameset

- <FRAMESET> defines the characteristics of the frames such as number of frames to be created, orientation, width, height.
- Nested frames are possible



HTML Frames: Frameset Rows

```
Firefox Web Browser
<!DOCTYPE>
                                                           HTML Frames Example
<html>
                                                                                              file:///home/iitp/Deskt
                                                                       C
 <head>
   <title>HTML Frames Example</title>
 </head>
 <frameset rows= "30%,40%,30%">
   <frame scrolling="No" src =</pre>
"/home/iitp/Desktop/Web-Technology/class/Frames/download.j
peg"/>
   <frame src =
"/home/iitp/Desktop/Web-Technology/class/Frames/sunshine.j
pg" />
   <frame src =
"/home/iitp/Desktop/Web-Technology/class/Frames/water.jpeg"
 </frameset>
</html>
```

References

```
1. <a href="https://www.dofactory.com/html/form/action">https://www.dofactory.com/html/form/action</a>
```

- 2. https://careerkarma.com/blog/client-vs-server-side-development/
- 3.
- 4.
- 5