**UI Technologies Training**

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**UI Technologies Course Content**

**Module**

**-**

**1:**

**HTML5**

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Introduction to Web Technologies



Web Page Structure

--

Head and Body



Basic Tags



Hyperlinks



Lists and Tables



Data Entry Forms in HTML



WebForms 2.0



Semantic Tags



Multi

-

media tags



HTML5 Graphics using SVG

**Module**

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Control Structures

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Functions in JavaScript

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Accessing DOM Objects and Event Handling

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Applying Styles using JavaScript

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Working with Arrays

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Object Programming in JavaScript

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ES6/ES7 Features

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Arrow Functions

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What is Bootstrap?

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Environment Setup

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Applying Bootstrap styles to Web Pages

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What is jQuery?



Environment Setup



Perform Client side Operations using jQuery

~~~~~

1. What is HTML?
2. How to create html document?
3. How to execute html document?
4. Structure of html document?
5. Tags and attributes

1. What is HTML?

--> Hyper Text Markup Language

--> Eg: HTML, XML, XAML

--> Not like a programming language

--> Tag Based

<h1> Hello World </h1>

<p> Hello World </p>

....

--> Used to create web pages

--> Static Web Pages

---> 1991

98% ---- dynamic web pages (html + other)

2% ---- static web pages (only with html)

-------------------------------------------------------

-------------------------------------------

1. How to create html document?
2. How to execute html document?

Required Software:

* 1. Editor -- create html document

Eg: notepad / notepad++

* 1. Browser ---- execution / output html document

|  |  |
| --- | --- |
|  |  |
| safari,....  Steps: | Eg: chrome, ie edge, |
| document | a. Open notepad++ and prepare html |
|  | b. Save the file as \*.html |
|  | Eg: |
| home.html |  |
| contact.html |  |
| login.html |  |
|  |  |
|  | c. --> Go to the folder where you |

save the document

--> Double click on the file name (Eg: Home.html)

-------------------------------------------------------

1. Structure of html document

<html>

<head></head>

<body></body>

</html>

-------------------------------------------------------

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1. Tags and attributes

Tags:

* + 1. Pair Tag /

Content Tag

<html> </html>

<body> </body>

<h1> </h1>

* + 1. Single Tag

<br/>

<hr/>

<input />

<img/>

Attributes:

---> to provide additional details about the tag

eg:

<img src="Image1.jpg" />

<h1 align="center"></h1>

<table width="350"></table>

...

30th June

~~~~~~~~

1. Head Section Tags (10%) 2. Body Section Tags (90%)

a. Basic Tags

--------------------------------------------------------------------------------------

1. Head Section Tags

~~~~~~~~~~~~~~~~~~

|  |  |  |
| --- | --- | --- |
| a. title |  | ---- text that display as title in title bar |
| b. style | --- | define styles |
| c. script | --- | write javascript |
| d. link |  | --- linking other files ( \*.css ) |
| e. meta --- |  | provide meta data (data about the web page) |

------------------------------------------------------------------------------------

1. Body Section Tags ( Basics Tags)

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

* 1. headings : h1, h2, h3,.....h6

<h1> Text </h1>

<h2> Text </h2>

...

<h6>Text</h6>

* 1. paragraphs : <p> Text </p>
  2. span : <span> Text </span>
  3. img : <img src="Image1.jpg" />
  4. div : division, used to group multiple tags as one unit. ---------------------------------------------------------------------------------------------- Task

~~~~~

How to display image/icon in title bar?

1st July, 2021

~~~~~~~~~~~~

1. Navigations / Hyperlinks
2. Lists

--------------------------------------------------------------------------

1. Navigations / Hyperlinks

<a> --- anchor tag

|  |  |
| --- | --- |
|  | --- used to create hyperlinks |
| another page | --- helps the users can navigate from one page to |
|  |  |
| Usage: | <a href="fileUrl">Text</a> |
| Eg: | <a href="contact.html">Contact Us</a> |

How to navigate from one web site to another web site?

<a href="https://www.wipro.com/">Wipro</a>

Types of Urls:

|  |  |
| --- | --- |
| a. relative urls |  |
|  | contact.html |
|  | login.html |
|  | about.html |
| b. absolute urls |  |
|  | https://www.wipro.com/ |
|  | https://www.apple.com/ |
|  | https://www.youtube.com/ |

Tasks:

~~~~~~

Q: How to use target attribute of <a> tag?

Q: How to use alt attribute of <img />tag?

Q: Create a web page to prepare the following hyperlinks:

Facebook

Gmail

Youtube

Twitter ---------------------------------------------------------------------------------------

Lists

~~~~~

--> Used to display the items in list format.

--> Types : ordered list (ol) and unordered list (ul)

--> List contains collection of list items (li).

Usae:

<ol type="1">

<li>Item1</li>

<li>Item2</li>

..... </ol>

<ul type="disc">

<li>Item1</li>

<li>Item2</li>

..... </ul>

for ol -> type = 1 / A / a / i / I for ul -> type = "disc" / "circle" / "square"

Tasks

Q: Prepare nested list example as per the image

2nd July

~~~~~~~

1. Working with Tables in HTML?

-----------------------------------------------------------------------------------

Working with Tables in HTML

~~~~~~~~~~~~~~~~~~~~~~~~

--> Used to display tabular format of data.

--> Employee Details, Product Details, etc...

--> Align the form controls

Tags

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1. table
2. tr -- table row
3. th -- table header cell / column
4. td -- table data cell / column

Attributes:

~~~~~~~~~

border, width, align, cellpadding, cellspacing, bgcolor

Tasks

~~~~~~

1. How to use rowspan attribute?
2. Prepare time table example
3. Prepare FB Details example --- tables, images, hyperlinks, etc..
4. What is the difference between Get and Post methods in HTML forms?

<html>

<body align="center">

<h3 style="color:blue;"><u>Facebook Friends Details</u></h3>

<table bgcolor="pink" border="2" width="500" align="center" cellpadding="5" cellspacing="1">

<tr>

<th>S.No</th>

<th>Student Name</th>

<th>Student Email</th>

<th>Student RollNo</th>

<th>Student Course</th>

<th>Student Address</th>

</tr>

<tr>

<td>1</td>

<td>shabbir</td>

<td>sbr@gmail.com</td>

<td>Ece144012</td>

<td>Ece</td>

<td>Bihar</td>

</tr>

<tr>

<td>2</td>

<td>Abid jilani</td>

<td>aj@gmail.com</td>

<td>Ece144013</td>

<td>Ece</td>

<td>Bihar</td>

</tr>

<tr>

<td>3</td>

<td>Akram</td>

<td>ak@gmail.com</td>

<td>Ece144022</td>

<td>Ece</td>

<td>Bihar</td>

</tr>

<tr>

<td>4</td>

<td>Dilshad</td>

<td>dillu@gmail.com</td>

<td>Ce144018</td>

<td>Civil</td>

<td>Bihar</td>

</tr>

<tr>

<td>5</td>

<td>Tanveer</td>

<td>tv@gmail.com</td>

<td>Ee144022</td>

<td>Ee</td>

<td>Kolkata</td>

</tr>

</table>

</body>

</html>

