HTML 5

By Syed Imran

JSPIDERS

RAJAJINAGAR

CSE/ISE/MCA/BCA

MECH/CIVIL

ECE/EEE/TC

Scratch

Course Outline
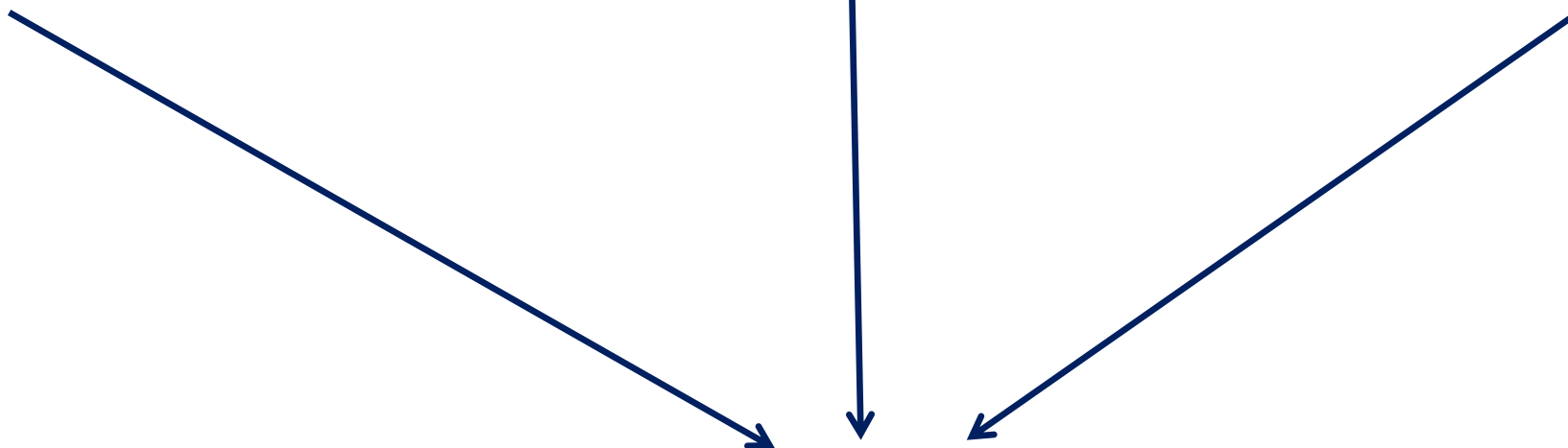
- **What is HTML?**
- **Features of HTML**
- **History of HTML**
- **HTML Tags**
- **HTML Attributes**
- **Structure of HTML**
- **HTML Paragraph and Break**

- **HTML Image**
- **HTML List**
- **HTML Table**
- **HTML Form**
- **Requirements**
- **Upcoming Batches**
- **Placed Candidates**

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HTML
5

What is WEB Technologies ?

1991 $\longrightarrow$ **Tim Berners Lee** $\longrightarrow$ **HTML** $\longrightarrow$ **Structure/Skeleton/Layout**

1994 $\longrightarrow$ **Hakon Wium Lie** $\longrightarrow$ **CSS** $\longrightarrow$ **Design/Makeup**

First name of JS

1995 $\longrightarrow$ **Brendan Eich** $\longrightarrow$ **Mocha** $\longrightarrow$ **Javascript** $\longrightarrow$ **Actions and Validation**

Difference between HTML ,CSS and JS

HTML → **Structure**

CSS → **Style**

Javascript → **Behavior**

- HTML
- HTML + CSS
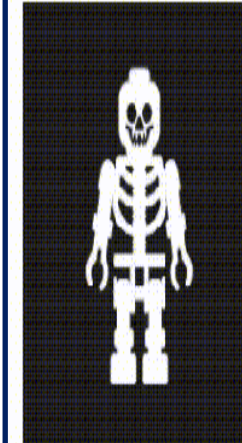- HTML + CSS + JAVASCRIPT

HTML — CSS — JAVASCRIPT

Apply Now / APPLY NOW / APPLY NOW

HTML — structure
CSS — presentation/appearance
JavaScript — dynamism/action

Bootstrap

B
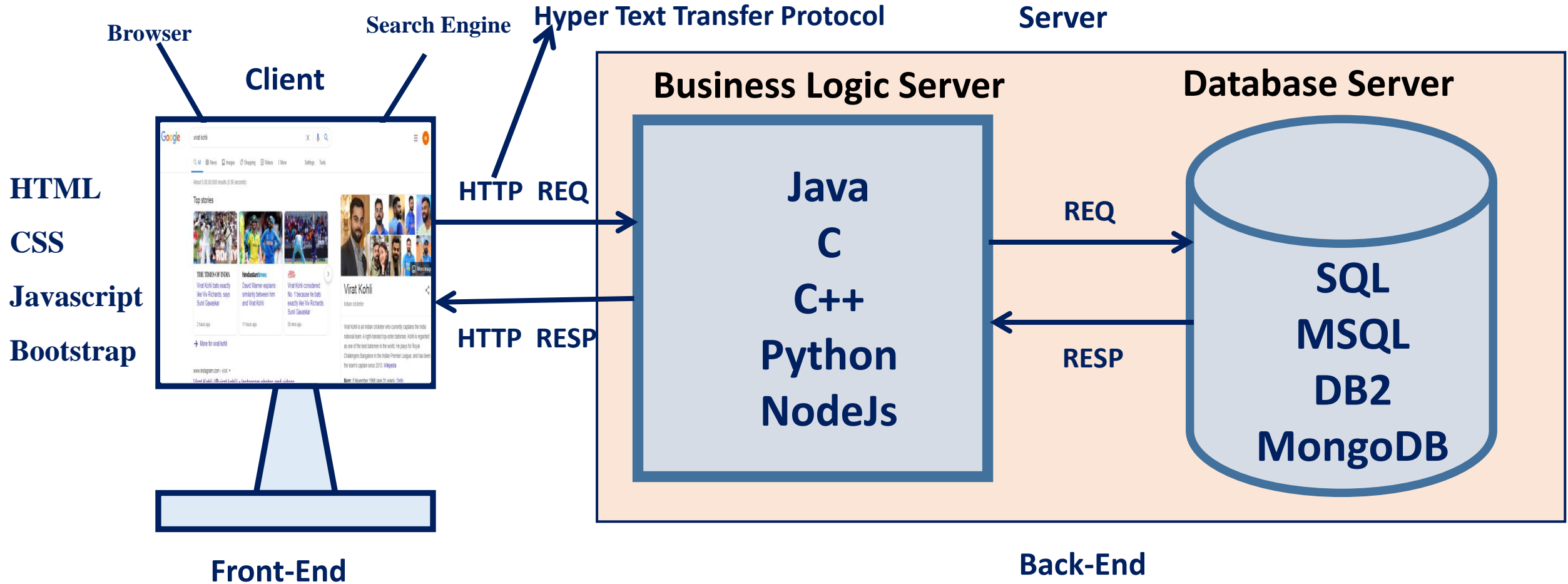
- **Bootstrap** is a free and open-source CSS framework, Used to develop responsive web applications.

- It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

Request Response Model

Browser

Search Engine

Hyper Text Transfer Protocol

Server

Client

Business Logic Server

Database Server

HTML

CSS

Javascript

Bootstrap

HTTP REQ

**Java
C
C++
Python
NodeJs**

REQ

**SQL
MSQL
DB2
MongoDB**

HTTP RESP

RESP

Front-End

Back-End

Javascript Full Stack Development

MEAN   **MERN**   **MEVN**

MongoDB ExpressJS Angular ReactJS VueJS NodeJS
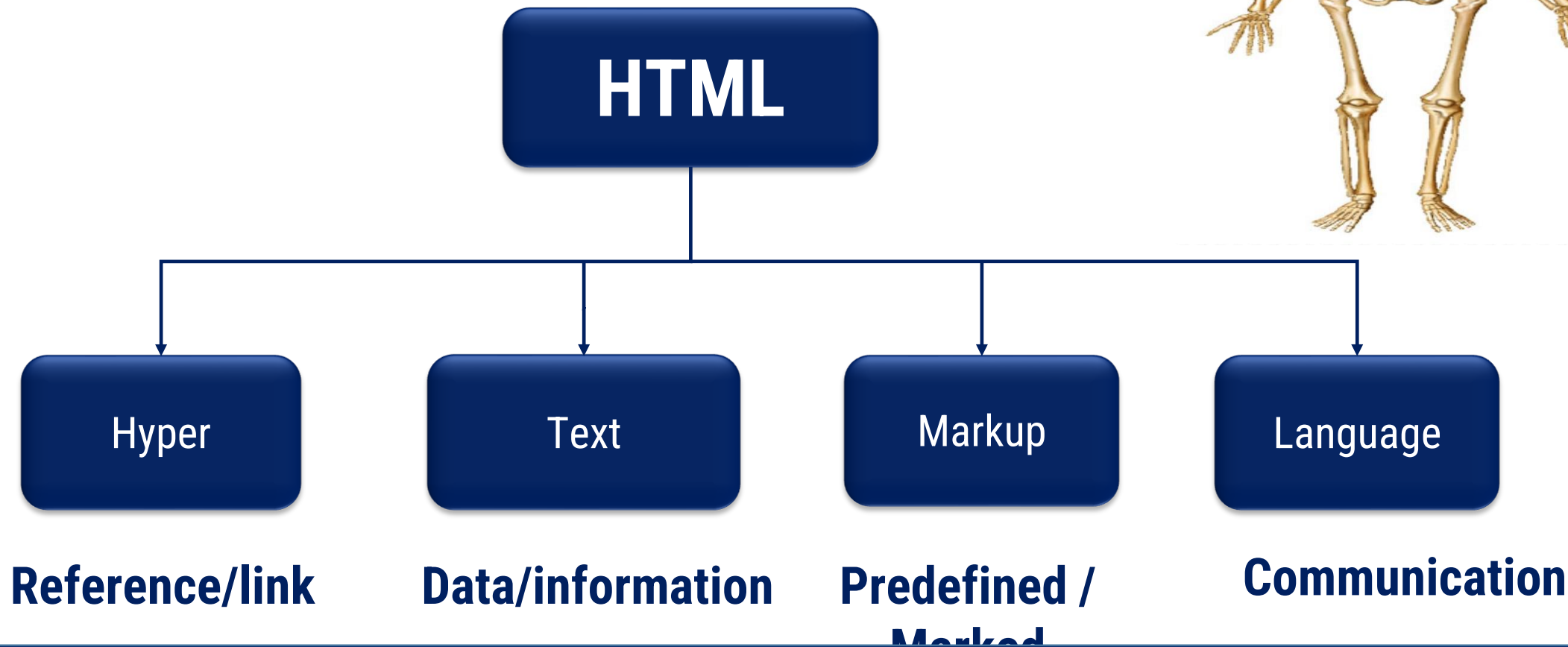
History of Html

Berners Lee

- HTML —which is short for **H**yper**T**ext **M**arkup **L**anguage— is the official language of the World Wide Web .

- HTML was first conceived in 1990.

- HTML is a product of SGML (Standard Generalized Markup Language) which is a complex.

- HTML especially developed to link documents electronically using hyperlinks.

- The current version of Html is **Html 5.0**

What is HTML?

- HTML describes the structure of web pages

```
                        ┌──────────┐
                        │   HTML   │
                        └──────────┘
          ┌──────────────┼──────────────┬──────────────┐
          ▼              ▼              ▼              ▼
     ┌─────────┐    ┌─────────┐   ┌─────────┐   ┌──────────┐
     │  Hyper  │    │  Text   │   │ Markup  │   │ Language │
     └─────────┘    └─────────┘   └─────────┘   └──────────┘

   Reference/link   Data/information   Predefined /    Communication
                                         Marked
```

Features of Html

- **Html** stands for Hyper Text Markup Language.

- Html mainly use for design a client side web pages .

- Html is used to create static web pages.

- Html is case in-sensitive.

- Html is simple and easy language.

- Html programs are executed by the browser when the file is opened in the browser.

- Html programs should be saved with **.htm** or **.html** extension.

HTML Tag

- An HTML code that defines every structure on an HTML page.

- It includes the placement of text and images and hypertext links.

- HTML tags begin with the less-than (<) character and end with greater-than (>).

- These symbols are also called angle brackets.

1.Paired Tags/Closed Html Tags

2.Singular Tags/Unpaired tags/Self-closing Tags
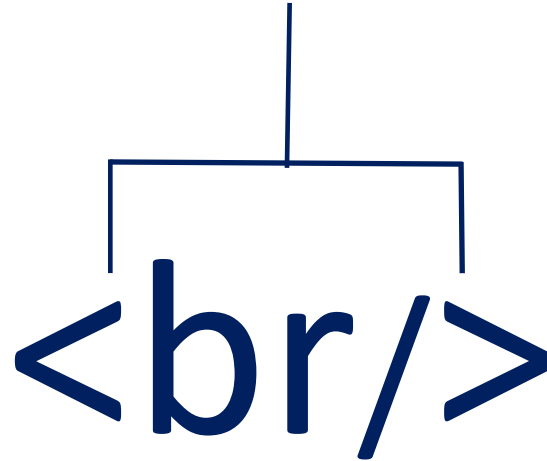
Paired Tags/Closed Tags

- Paired tags have an opening and closing tag.

- The opening tag is similar to the single tag , and the closing has forward slash.

- Between an opening and closing tag, write some content (text, images or something else).

- Content can be other tag also.

Opening Tag

Closing Tag

<p> Welcome To Jspiders </p>

Content

Element

Unpaired Tags/Self-closing Tags
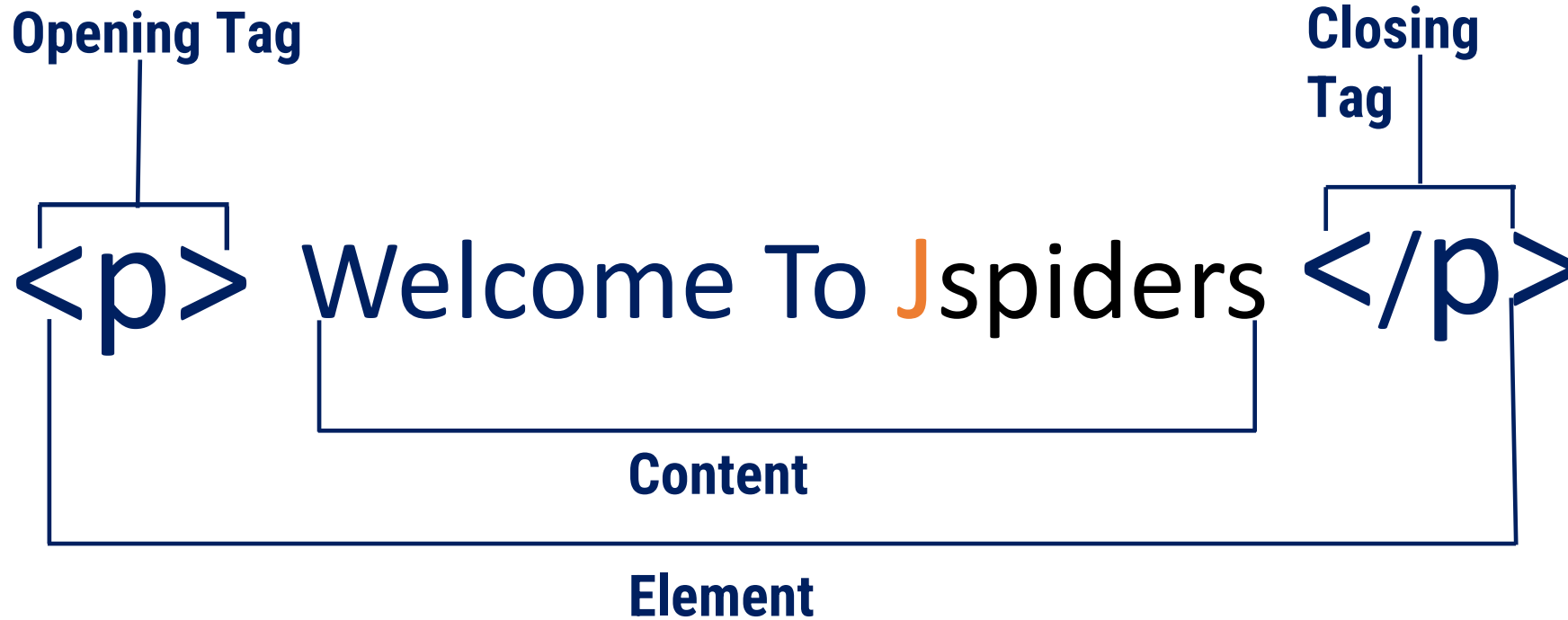
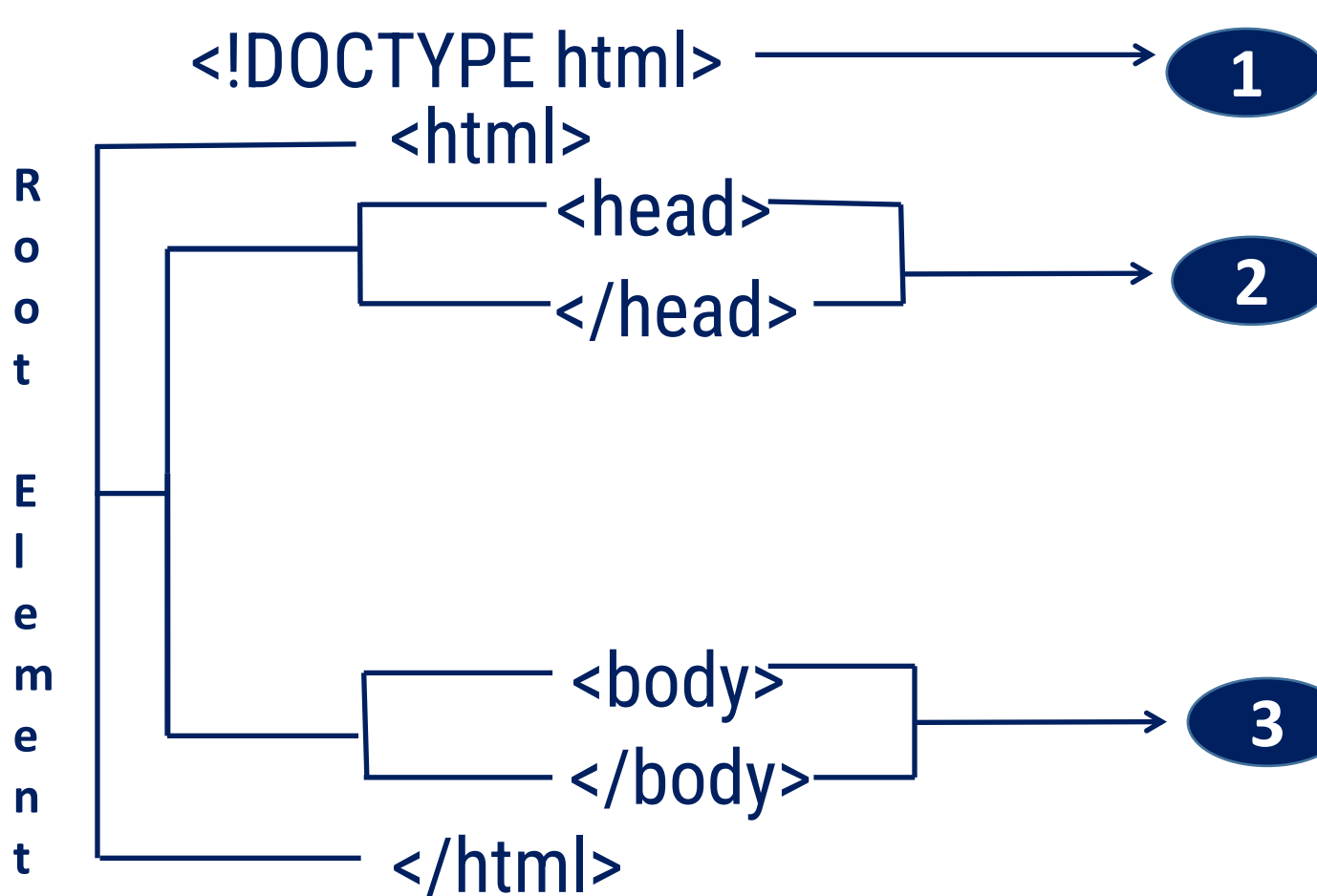- Unpaired tag has both opening and closing tag in a single tag.

Opening Tag / Closing Tag

Note: Forward slash is not mandatory for unpaired tags. Unpaired tags also known as empty elements.

Attributes

HTML5

- 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"**

<p **align = "right">**This is right aligned</p>

Structure of HTML

<!DOCTYPE html>

           <html>

                <head>

                </head>

                <body>

                </body>

           </html>

Root Element

1
- **The <!DOCTYPE> declaration must be the very first thing in your HTML document.**
- **It indicates Version Information(HTML5)**

2
- <head> tag is used to contain specific information about a web page

3
- The <body> tag defines the document's body.
- The <body> element contains all the contents of an HTML document, such as headings, paragraphs, images, hyperlinks, tables, lists, etc.

Head Tag

<head>

    <meta/> ⟶
- The **<meta>** tag defines metadata about an HTML document. Metadata is data (information) about data.
- Metadata will not be displayed on the page, but is machine parsable.
- Metadata is used by browsers (how to display content or reload page), search engines (keywords), and other web services.

    <link/> ⟶
- <link> tag is used add **icon** to the web page.
- <link> tag is used to add **External CSS file.**

    <title>JSPIDERS</title> ⟶
- **<title>** tag is used add **title** to the web page.
- File name will be displayed if don't use **<title>** tag.

    <style>CSS Properties</style> ⟶
- **<style>** tag is used **CSS** Properties.

    <script>Javascript code</script> ⟶
- **<script>** tag is used **JavaScript** code.
- We can use inside both **<head>** and **<body>** tag.

</head>
- But good practice is to use it inside the **<body>** as the **last** tag

Paragraph <p> and Break
 Tag

- The HTML **<p>** tag represents a **paragraph**.

- **Paragraphs** are usually represented in visual media as blocks of text separated from adjacent blocks by blank lines and/or first-line indentation.

- The **
 tag** is an inline element used to create a single line break in a document.

Headings

- The **heading tag** is used in HTML to define **headings** of a page.

- **Headings** are defined by **<hn>.**

- "n" being a number between 1 and 6.

- **<h1>, <h2>,<h3>,<h4>,<h5> and <h6>** are the different types of headings.

- Heading <h1> defined the most important heading and <h6> define most least heading.

- **<h1>** text is big in size and **<h2>** text is smaller than **<h3>** text and **<h4>** text is smaller than **<h5>** text and so on..

Image Tag and Attributes <img>

- **<img>** tag used to display images on web page.

Sl No	Attribute Name	Parameter/Values	Description
1	Src	Image Path, Image Name , Image Address	Are used for specify the source file from where you want to display image.
2	Alt	Any Name	Are used to specify alternate text to display in the place of image when browser is unable to display image.
3	Title	Any Name	Are used to specify a title for the image that will be displayed when mouse is placed over the image for few seconds.
4	Height	PX , %	Are used to specify height of image.
5	Width	PX , %	Are used to specify Width of image.

List

- Html list are used to arrange HTML elements in list format. Html provide three types of list.

- Ordered List or Numbered List **(<ol>)**.

- Unordered List or Bulleted List **(<ul>)**.

- Description list **<dl>**. Note: Not Required

- The <li> tag is used inside ordered lists **(<ol>)**, unordered lists **(<ul>)**.

- **tag** defines a list item.

Sl No	Attribute Name	Parameter/Values	Description
1	Type	1(Default), a, A, I, i ——→** ** Disc(Default),Circle,Square ——→** **	Specifies the type of list marker that should be used on each item of a list.
2	Start	Any Number	Defines the starting number in an ordered list.

Marquee Tag <marquee>

- **Marquee** tag are used for display the moving content on the web browser.

Sl No	Attribute Name	Parameter/Values	Description
1	Behavior	Scroll(Default),Slide,Alternat	To Change the Behaviour
2	Direction	Left(Default),Right,Up,Down	To Change the Direction
3	Bgcolor	Colour name/ Colour Code	To Apply Background Colour
4	Scrollamount	Any Number	To increase the Speed
5	Loop	Any Number	For Repeatation
6	Height	PX , %	Are used to specify height of Marquee tag.
7	Width	PX , %	Are used to specify Width of Marquee tag.

Table , Tr , Th, Td   Tags

- HTML tables are created using the **<table>** tag

- Table is a collection of cells in HTML

- Table row is defined using **<tr>** tag

- Table header is defined with **<th>** tag

- Table data/cell is defined with **<td>** tag

Table and td/th Attributes

Sl No	Attribute Name	Parameter/Values	Description
1	Border	PX,%	To apply Border to the table
2	Cellspacing	PX,%	To apply space between cells
3	Cellpadding	PX,%	To apply space between content and border of cell
4	Rules	Rows,Cols,all	To represent table in the form of rows and colomns
5	Height	PX , %	To increase or decrease the height.
6	Width	PX , %	To increase or decrease the width.
<td> or <th>			
1	Valign	Middle(Default),Top,Bottom	To align the Content Verticaly
2	Colspan	Any Number	Is used to specify the number of **columns** a cell should span(**merge**)
3	Rowspan	Any Number	Is used to specify the number of **rows** a cell should span(**merge**)

Anchor Tag <a> (Hyperlinks)

- **<a>** tag is used to create **Hyperlinks** that allow the users to navigate from one page to another.

Sl No	Attribute Name	Parameter/Values	Description
1	Href	Url/File Name	**Href** attribute specifies the destination address
2	Title	Any name	Are used to specify a **title** for the image that will be displayed when mouse is placed over the image for few seconds.
3	Target	_Parent(Default),_Blank	**Target** attribute specifies where to open the linked document like open in new window, open in same window.
4	Download	Any name	The **download attribute** specifies that the target will be **downloaded** when a user clicks on the hyperlink

Forms <form>

- HTML **Forms** are required, when you want to collect some data from the user.

- **Forms** contains controls such as text fields, email field, password fields, checkboxes, button, radio buttons, submit button, menus etc

- For example when you fill the registration **form** lot of information given by user and these information server get from web page using form element..

Sl No	Tag Name	Description
1	<input>	The **<input> tag** specifies an **input** field where the user can enter data.
2	<textarea>	The **<textarea> tag** defines a multi-line text input control. The **<textarea> element** is often used in a form, to collect user inputs like comments or reviews.
3	<select>	The **<select> element** has some unique attributes you can use to control it, such as multiple to specify whether multiple options can be selected.**(Dropdown)**
4	<option>	The **<option> tag** defines an **option** in a select list.
5	<button>	The **<button> tag** defines a clickable **button**.

Input Tag <input>

Sl No	Attributes Name	Parameter/Values
1	Type	Text, Password, Submit, Reset, URL, Email, Radio , Button, Checkbox ,Date, Time, File , Number, Week,Color
2	Placeholder	Any Name
3	Value	Any Name
4	Name	Any Name
5	Id	Any Name
6	Size	PX,%
7	Maxlength	Any Number
8	Minlength	Any Number
9	Required	
10	Checked	
11	Disabled	

Select and Textarea

- ## Select <select>

Sl No	Attributes Name	Parameter/Values	Description
1	Rows	Any Number	To increase height of **<textarea>**
2	Cols	Any Number	To increase width of **<textarea>**

- ## Textarea <textarea>

Sl No	Attributes Name	Parameter/Values	Description
1	Multiple		To select multiple **<option>**

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Form Tag Attributes <form>

Sl No	Attributes Name	Parameter/Values
1	Action	URL/File Name
2	Name	Any Name
3	Target	_Parent(Default),_Blank
4	Method	Get(Default),Post

Upcoming Batches in Jspiders RajajiNagar

Upcoming Batches for the Month June					
Sl No	Time	Technology	Session	Start Date	Trainer
1	11:30 AM	Python	Morning	10th June 2020	Mr. Keshav
2	6:30 PM	Python	Evening	17th June 2020	Mr. Keshav
3	6:30 PM	Python	Evening	24th June 2020	Mr. Keshav
4	2:30 PM	Core Java	Afternoon	8th June 2020	Mr. Keshav
5	4:30 PM	Core Java	Afternoon	15th June 2020	Mr. Uday Pawar
6	4:00 PM	Core Java	Afternoon	22nd June 2020	Mr. Uday Pawar

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Training & Development Center
RAJAJINAGAR

Candidate 1:
Congratulations!!!
got *Placed* through
JSPIDERS Rajajinagar
FARAH NAAZ
YOP 2019
Qualification : BE   Stream : ECE
Percentage : Above 60%
College Name : Rao Bahadur Y Mahaballeshwarappa Engineering College
Date of Joining in jspiders : July 2019
Batch code : J3CM3
No of Interviews attended : 04
#595, Stage, 3, Dr Rajkumar Rd, Prakash Nagar, Rajajinagar, Bengaluru, Karnataka 560021
For more details contact 7760200900

Candidate 2:
Congratulations!!!
got *Placed* through
JSPIDERS Rajajinagar
Soumya M
YOP 2019
Qualification : BE   Stream : ECE
Percentage : Above 60%
College Name : Rao bahadur y mahabaleshwapppa engineering college
Date of Joining in jspiders : August 2019
Batch code : JECM45
No of Interviews attended : 05
#595, Stage, 3, Dr Rajkumar Rd, Prakash Nagar, Rajajinagar, Bengaluru, Karnataka 560021
For more details contact 7760200900

Candidate 3:
Congratulations!!!
got *Placed* through
JSPIDERS Rajajinagar
Puneeth Kumar R
YOP 2019
Qualification : BE   Stream : Mechanical
Percentage : Above 60%
College Name : BITM (Ballari)
Date of Joining in jspiders : June 2019
Batch code : J3cm2
No of Interviews attended : 15
#595, Stage, 3, Dr Rajkumar Rd, Prakash Nagar, Rajajinagar, Bengaluru, Karnataka 560021
For more details contact 7760200900

Candidate 4:
Congratulations!!!
got *Placed* through
JSPIDERS Rajajinagar
Abdul Nasir
YOP 2019
Qualification : BE   Stream : CSE
Percentage : Above 60%
College Name : S.C.E.M
Date of Joining in jspiders : August 2019
Batch code : JECM44
No of Interviews attended : 12
#595, Stage, 3, Dr Rajkumar Rd, Prakash Nagar, Rajajinagar, Bengaluru, Karnataka 560021
For more details contact 7760200900

CONTACT: 7760200900   **HR: 7022889639**