Course Name 	 **: Web Technologies**
Course Code 	 **: CSEG7007**

Course Instructor :

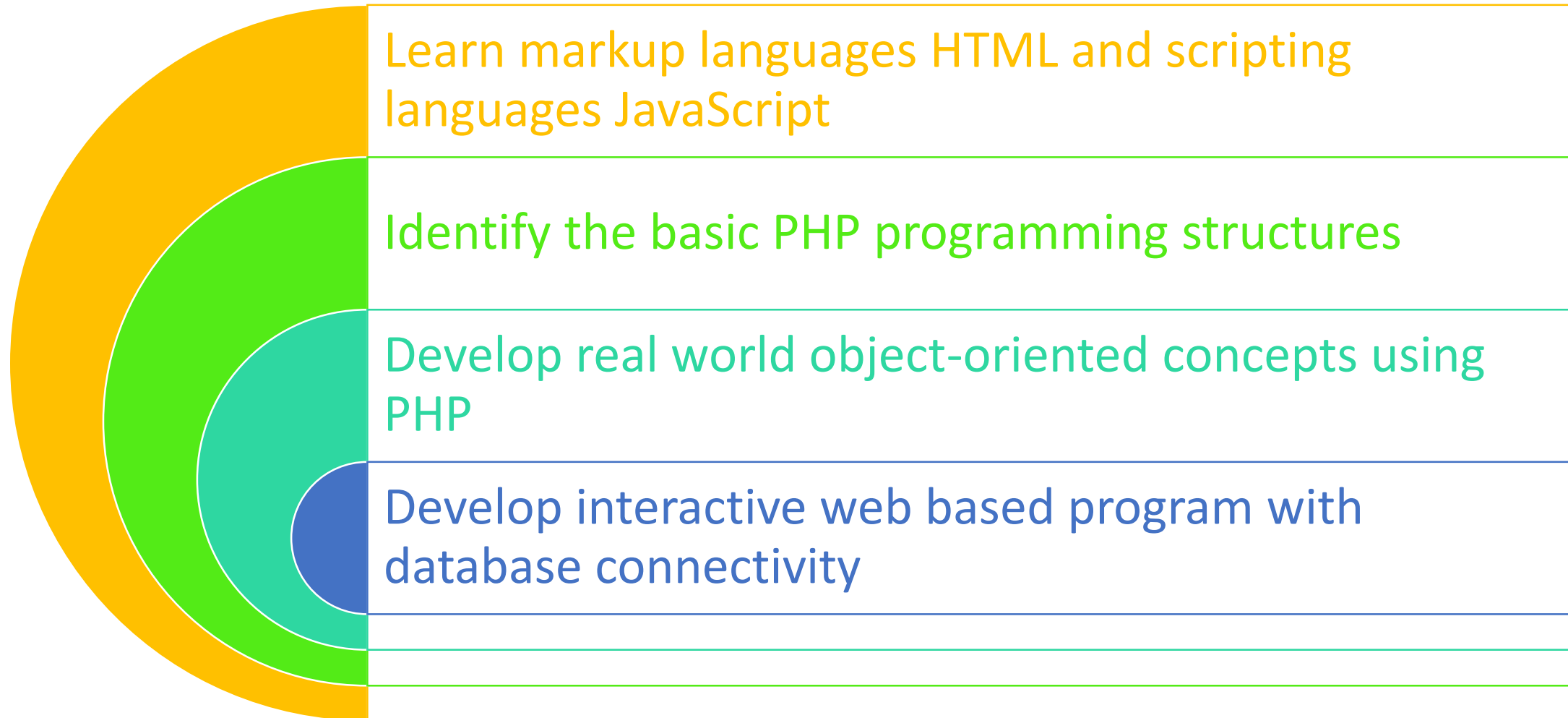**J.Dhiviya Rose**
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Mobile : 9410188296

Course Outcomes – Web Technology Through PHP

UPES
UNIVERSITY OF THE FUTURE

Learn markup languages HTML and scripting languages JavaScript

Identify the basic PHP programming structures

Develop real world object-oriented concepts using PHP

Develop interactive web based program with database connectivity

World Wide Web - WWW

- **Information Sharing System**

- Document identified by **Uniform Resource Locators(URL)**

- Interlinked by **hyperlinks**

- Accessible over the **Internet**.

- Document in the form of **webpage**

- Follow **Hyper Text Transfer Protocol**

- **W3C** manages this

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Unit 1/ CO1 Syllabus: Introduction

What is HTML, Basic Structure of HTML Page, Basic Tags, Lists, Tables, Images, Forms and Frames.

Dynamic HTML with Java Script: Data validation, Opening a new window, Messages and Confirmations, The status bar, writing to a different frame, Rollover buttons, Moving images, multiple pages in a single download, a text-only menu system, Floating logos.

Introduction, Usage of variables, operations, control structures, looping structures, predefined keywords, arrays and functions, objects. Exception Handling, Events and Event Handling and Validations.

Hyper Text Markup Language(HTML)

Course Instructor

Dhiviya Rose J | SoCS | UPES
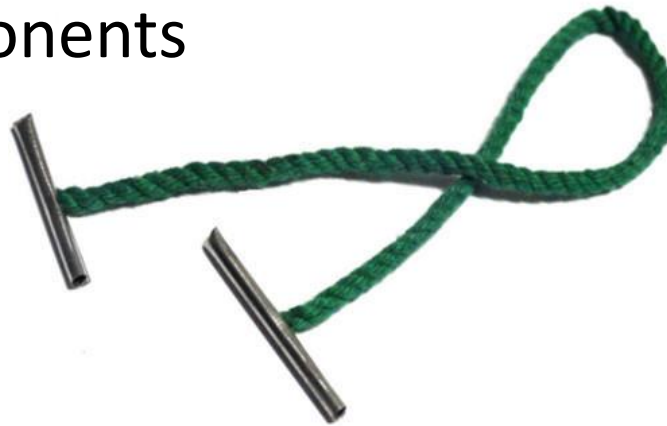
Learning Outcomes

- History of WWW
- Features of HTML
- Structure of HTML
- Basic Tags of HTML

Ref: https://www.javatpoint.com/html-building-blocks

Hyper Text Markup Language - HTML

- Developed by Tim Berners-Lee in 1990
- Used to create electronic documents (called web pages) displayed on the World Wide Web
- Interpreted by the Web Browser
- Markup tells web browsers how to display
- HTML documents 2 components
  - the content
  - the tags that format
- Every browser supports

```
<!DOCTYPE html>
<html>
<body>

<h1>My First Heading</h1>

<p>My first paragraph.</p>

</body>
</html>
```

HTML History

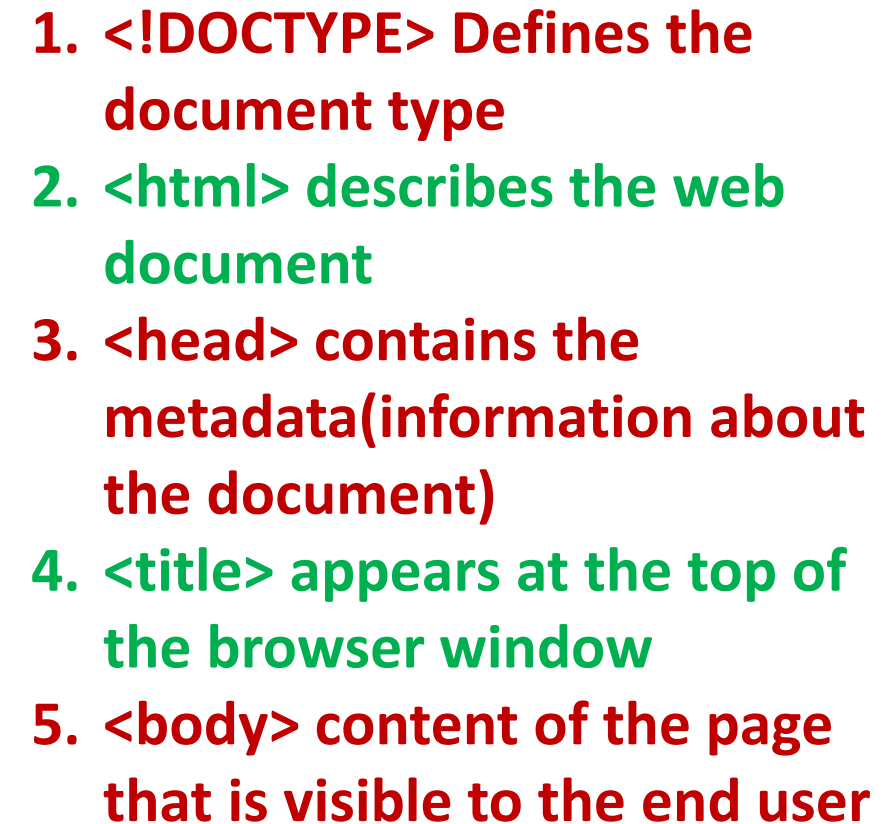- Since the early days of the web, there have been many versions of HTML:

Version	Year
Tim Berners-Lee invented www	1989
Tim Berners-Lee invented HTML	1991
Dave Raggett drafted HTML+	1993
HTML Working Group defined HTML 2.0	1995
W3C Recommended HTML 3.2	1997
W3C Recommended HTML 4.01	1999
W3C Recommended XHTML 1.0	2000
HTML5 WHATWG First Public Draft	2008
HTML5 WHATWG Living Standard	2012
HTML5 W3C Final Recommendation	2014

World Wide Web Consortium (W3C)

Web Hypertext Application Technology Working Group (2004) Born with disagreement with W3C working towards XHTML

All browsers agree the guidelines of W3C

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Structure of HTML

① ——————————— `<!DOCTYPE html>`

`<html>`

`<head>`
`<meta charset="utf-8">` ——————— ④
③ `<title>Title here</title>` ——————— ⑤
`</head>`

②
`<body>`
⑥ `Page content goes here.`
`</body>`

`</html>`

1. **<!DOCTYPE> Defines the document type**
2. **<html> describes the web document**
3. **<head> contains the metadata(information about the document)**
4. **<title> appears at the top of the browser window**
5. **<body> content of the page that is visible to the end user**

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Features of HTML

- **Platform Independent**
- **Not Case Sensitive**
- **Only Language for Web Page Development**
- **Contains Markup/Tags**
- **Simple Text Based**
- **Has extension *.html**
- **Connect the various web pages by hypertext.**

Working with Basic Tags

Tag	Description
<html> ... </html>	Declares the Web page to be written in HTML
<head> ... </head>	Delimits the page's head
<title> ... </title>	Defines the title (not displayed on the page)
<body> ... </body>	Delimits the page's body
<h n> ... </hn>	Delimits a level *n* heading
 ... 	Set ... in boldface
<i> ... </i>	Set ... in italics
<center> ... </center>	Center ... on the page horizontally
...	Brackets an unordered (bulleted) list
...	Brackets a numbered list
...	Brackets an item in an ordered or numbered list
 	Forces a line break here
<p>	Starts a paragraph
<hr>	Inserts a horizontal rule
<img src="...">	Displays an image here
 ... 	Defines a hyperlink

Lists in HTML

Example of HTML List.

Unordered List

- Java
- PHP
- .NET

Ordered List

1. Java
2. PHP
3. .NET

Defination List

Java
  It is oop language.
PHP
  It is open source.
.NET
  .Net is also a programming language.

Example of HTML List.

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    It is open source.
.NET
    .Net is also a programming language.

```
<body>
<h1>Example of HTML List.</h1>
<h3>Unordered List</h3>
<ul>
<li>Java</li>
<li>PHP</li>
<li>.NET</li>
</ul>
<h3>Ordered List</h3>
<ol>
<li>Java</li>
<li>PHP</li>
<li>.NET</li>
</ol>
<h3>Defination List</h3>
<dl>
<dt>Java</dt><dd> It is oop language.</dd>
<dt>PHP</dt><dd> It is open source.</dd>
<dt>.NET</dt><dd>.Net is also a programming
language.</dd>
</dl>
</body>
```

Special Characters in HTML

There are lots of special characters

There are a few characters that we use in HTML that need a special representation to be shown on a page.

Less than <

Greater than >

Ampersand &

Special Entities

```
<body bgcolor="#F0F0F0">
<p>This is a sample paragraph for display purposes.</p>
<hr>
An example of a Copyright Symbol &#169;
<br>
An example of a Registered Trademark Symbol &#174;
<br>
An example of the Trademark Symbol &#8482;
<hr>
<p>This is a closing paragraph for display purposes.</p>
</body>
```

Output	Description	Name	Number
	non-breaking space		
<	less than	<	<
>	greater than	>	>
&	ampersand	&	&
¢	cent	¢	¢
£	pound	£	£
¥	yen	¥	¥
€	euro	€	€
§	section	§	§
©	copyright	©	©
®	registered trademark	®	®
™	trademark	™	™

Comments in HTML

```
<!--
Text
-->
```

```
<table width="800" border="0" cellpadding="0">
  <tr>
    <!--cell 1: navigational links-->
    <td width="100"> </td>
    <!--cell 2: main page content-->
    <td width="600">
      <table width="100%" border="0" cellpadding="0">
        <tr>
          <td> </td>
        </tr>
      </table>
    </td>
    <!--cell 3: side bar cell-->
    <td width="100"> </td>
  </tr>
</table>
```

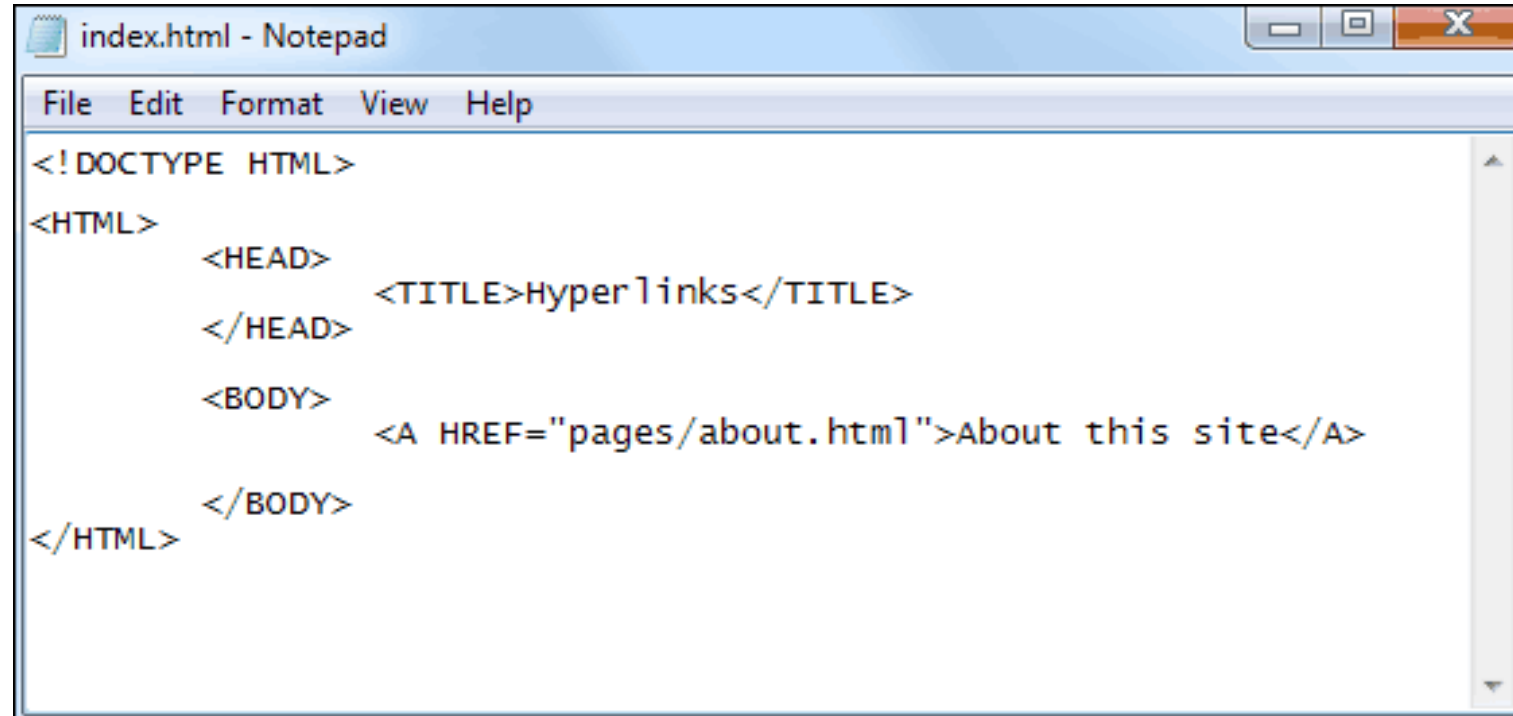Examples of comments in HTML

Hyperlink/text in HTML

Hello User!

How are You? How to add Link in Html

Here, we will describe how to link the text in two different following ways:

1. Link the text to an another Html Page
2. Link the text to the section on the same page.
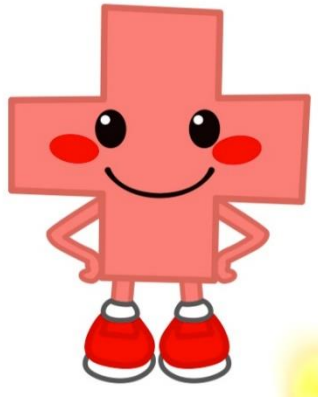
Hyperlink using anchor tag

index.html - Notepad

File   Edit   Format   View   Help

```
<!DOCTYPE HTML>

<HTML>
        <HEAD>
                <TITLE>Hyperlinks</TITLE>
        </HEAD>

        <BODY>
                <A HREF="pages/about.html">About this site</A>

        </BODY>
</HTML>
```

Interesting HTML5 Features

- New semantic elements like

    `<header>`, `<footer>`, `<article>`, and `<section>`
- New form controls like

    `number`, `date`, `time`, `calendar`, and `range`
- New graphic elements

    `<svg>` and `<canvas>`
- New multimedia elements

    `<audio>` and `<video>`

🚫 **REMOVED**

Element	Use instead
`<frame>`	
`<frameset>`	
`<noframes>`	
`<strike>`	CSS
`<tt>`	CSS

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