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Web Designing

Introduction to Websites

What is a Webpage
Introduction to HTML
Creating a simple HTML Document
Viewing HTML Document with Browsers
Introduction to different Web Browsers – IE, Chrome, Mozilla, Safari, UC Browser
Webpage Vs Website
URLs / Domains
Web Servers and Web Hosting

HTML

Elements of a HTML Document
Understanding HTML Tags
HTML Editors
Creating a Simple HTML Document
Adding Attributes to Tags
Handling Texts in HTML
Headings
Paragraphs
Formatting Texts
Managing Blocks with <Div> Tag
<Div> - Id's and Class
Line Breaks
Managing Lists
HTML Styles
Controlling Fonts and Size
Alignment
Applying Colors
Foreground and background colors
HTML Tables
Creating a Table
Managing Columns
Table Borders
Border Spacing

Handling Images

- Adding Image
- Formatting Image
- Handling Size of an Image
- Aligning Images
- Adding Animated Images
- Background Images

Handling Layouts

HTML Forms

Introduction to HTML Forms

Form Elements

Form Input and Attributes

Introducing HTML 5

- HTML Vs HTML 5
- New Elements in HTML 5
- New Form Elements in HTML 5
- Handling Audio & Video
- Handling Graphics
- Canvas
- Handling SVG
- Handling Events
- HTML 5 APIs
- Geolocation
- Drag / Drop
- Web Storage
- Advantage of Web Storage over Cookies
- Session based Web Storage

Introducing CSS and CSS 3

- What is a Style Sheet
- Cascading Effect of a Style Sheet
- Inline and External CSS
- CSS Selectors – IDs and Classes
- Understanding Layouts
- Absolute, Relative and Fixed Positioning

Advanced CSS
Transformations

Responsive Layouts and Media Queries

Simplifying CSS with Bootstrap

Introducing Bootstrap Framework

Advantages of Bootstrap Framework over CSS

Responsiveness with Bootstrap

Bootstrap Grids

Bootstrap UI Components

Buttons, Tables, Menus, Carousels, Dropdowns, Alerts

Javascript

Introduction to Javascript

Necessity for Javascript

Javascript Structure and Elements

Operators and Functions

Control Structures

The Document Object Model (DOM), Objects and Nodes

Handling DOM using Javascript

Javascript Events

Animating UI Elements

Jquery Framework

What is JQuery Framework

Advantages of JQuery

Integrating JQuery through CDNs

Understanding JQuery Selectors

UI Components

Buttons, Lists, Toolbars, Menus,

Handling Forms using JQuery

Jquery Events

Understanding Ajax

Implementing Ajax

Mastering MySQL

Installing and Configuring MySQL

Understanding MySQL

Creating and Managing Database

MySQL data types

Creating Tables and Managing Tables

Data Manipulation in Tables – Insert, Update, Delete

Querying Data from Tables – Select, Joins

Advanced Data Manipulation – Groups, Functions, Constraints, Index
Handling Transactions in MySQL

Developing Web Applications using PHP

Introduction to PHP

- What is PHP
- The Power of PHP
- Learning the history of PHP
- Javascript / JQuery Vs PHP
- What is Server Side Scripting
- Client Side Scripting Vs Server Side Scripting
- Installation of XAMPP
- Importance of Apache Server
- Configuring PHP and setting up the Environment
- Working with Editors

Basics of PHP

- Coding PHP in HTML Document
- Embedding PHP Codes
- Executing PHP Embedded HTML Documents
- PHP Coding Structure
- Variables in PHP
- Data types in PHP – Number, Strings, Date, NULL
- Arrays and Variations of Arrays

Control Structures of PHP

- Decision Making with IF Statements
- Variations of IF Statements
- Switch Statements
- Using Operators with Decision Making Structures
- Looping Structures
- While Loops, For Loops, Foreach Loops
- Using CONTINUE and BREAK in Loops
- Managing Arrays with Control Structures

Functions in PHP

- Understanding Functions in PHP
- Using Built-in Functions – Date, String and Mathematical Functions
- Handling Return Value
- Nesting Functions

User Defined Functions in PHP

- Defining our Own Functions
- Understanding Arguments and Return Values
- Scope of Functions
- Handling Multiple return values
- Defining default Arguments

File Handling in PHP

- Basics of File Handling and need to handle Files from PHP
- Creating a File using PHP
- Reading, Writing, Appending Files
- Copy and Rename Files
- Delete Files
- Working with Directories
- Parsing Directory Structures
- Uploading Files

Handling FORMS in PHP

- Understanding PHP Forms
- Validating User Inputs
- Displaying Messages for Validation Errors
- Using Functions for Validations
- Creating Custom Functions for Data Validation
- Handling Form Submissions
- Handling Exceptions

Accessing MySQL with PHP

- Introduction to Database APIs
- Establishing Connection with Databases
- Retrieving data from Database
- Manipulating Retrieved Data
- Updating Records in Database using PHP
- Deleting Records in Database using PHP
- Understanding SQL Injection

Sessions and Cookies

- Understanding Cookies
- Purpose and use of Cookies

Setting and Reading Cookie Values
Resetting Cookie Values
Understanding Sessions and importance of Sessions

Starting a Session and Working with Session
Understanding Session Variables
Closing Sessions

Using Emails for Form Submission in PHP

Email Configuration in PHP
Need for Sending Mails from Web Applications
Using Sendmail
Using PHPMailer
Hosting and Running a PHP Application

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