ELEGANT TRAINING

Web Development

Pre - requisites

Basic Understanding of ms o ce is enough to learn this course

PHP , Bootstrap, jQuery

Web Development

About WEB DEVELOPMENT

Web development refers to the process of creating, building, and maintaining websites or web applications. It involves front-end (client-side) and back-end (server-side) development, along with database management, to ensure a fully functional website or application.

Bootstrap is a popular front-end framework used to design responsive and mobile-first websites quickly and efficiently. It provides a collection of CSS, JavaScript, and HTML components that simplify web development without needing to write code from scratch.

jQuery is a fast, lightweight, and feature-rich JavaScript library that simplifies HTML document manipulation, event handling, animation, and AJAX interactions. It helps developers write less code while achieving powerful functionality.

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Module 1: Introduction to PHP
What is PHP?
History and Features of PHP
Setting up a Local Server (XAMPP, WAMP, or LAMP)
Writing Your First PHP Script
PHP Syntax and Structure
PHP Tags and Comments

Module 2: PHP Basics
Variables and Data Types
Constants in PHP
Operators in PHP (Arithmetic, Assignment, Comparison, Logical, etc.)
Type Casting and Type Juggling
Superglobal Variables ($_GET, $_POST, $_REQUEST, $_SESSION, etc.)

Module 3: Control Structures
Conditional Statements (if, if-else, switch-case)
Loops (for, while, do-while, foreach)
Break and Continue Statements

Module 4: Functions in PHP
De ning and Calling Functions
Function Parameters and Return Values
Variable Scope (Global, Local, Static)
Built-in Functions (String, Math, Date, Array Functions, etc.)
Include and Require (include, include_once, require, require_once)

Module 5: Arrays in PHP
Indexed Arrays
Associative Arrays
Multidimensional Arrays
Array Functions (array_merge, array_push, array_pop, array_search, etc.)

Module 7: PHP and Databases (MySQL)

Introduction to MySQL
Connecting PHP with MySQL (mysqli & PDO)
Module 8: PHP Sessions and Cookies
Understanding Sessions in PHP

Module 9: Working with Files

Reading and Writing Files
File Handling Functions (fopen, fwrite, fread, le_get_contents, etc.)
File Uploading and Handling

Module 10: Object-Oriented Programming (OOP) in PHP

Classes and Objects
Constructors and Destructors
Access Modi ers (public, private, protected)
Inheritance
Polymorphism
Abstract Classes and Interfaces
Magic Methods (construct,   destruct,   get,   set, etc.)

Module 12: PHP Security

Input Validation and Sanitization
Preventing SQL Injection
Cross-Site Scripting (XSS) Protection
Cross-Site Request Forgery (CSRF) Protection
Hashing Passwords (password_hash, password_verify)

Module 14: Advanced PHP Concepts

Working with APIs (REST API, JSON)
Sending Emails with PHP (PHPMailer)
Error Handling (try, catch, nally)
Using cURL for API Calls
Web Services and Integrations

Module 1: Introduction to Bootstrap

What is Bootstrap?
History and Features of Bootstrap
Advantages of Using Bootstrap
Setting Up Bootstrap (CDN & Local Installation)
Understanding Bootstrap File Structure

Module 2: Bootstrap Grid System

Introduction to the Grid System
Understanding Rows and Columns
Container vs. Container-Fluid
Grid Breakpoints (XS, SM, MD, LG, XL, XXL)
Creating Responsive Layouts

Module 3: Bootstrap Components

Buttons (.btn, .btn-primary, .btn-outline-*)
Alerts (.alert-success, .alert-danger, etc.)
Badges and Labels
Cards and Panels
Progress Bars

Module 4: Bootstrap Forms

Form Controls (Input Fields, Textareas, Selects)
Form Validation Styles
Input Groups
Checkboxes and Radio Buttons
Floating Labels

Module 1: Introduction to jQuery

What is jQuery?
Advantages of Using jQuery
Installing jQuery (CDN & Local Download)
jQuery Syntax and Structure
Selecting Elements with jQuery ($())

Module 2: jQuery Selectors & Filters

Selecting Elements (id, class, element)
jQuery Attribute Selectors
Filtering Elements (: rst, :last, :eq(), :odd, :even)
Traversing DOM Elements (parent(), children(), siblings(), nd())

Module 3: jQuery Events

Handling Events (click(), dblclick(), mouseenter(), mouseleave())
Event Binding (on(), o ())
Form Events (change(), submit(), focus(), blur())
Keyboard and Mouse Events

CONTACT US

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