

PARAMWEBINFO

HTML (HyperText Markup Language)

Introduction

- Basics of HTML
- HTML Elements and Attributes
- HTML Tags (head, body, title, etc.)

Structure

- Document Structure
- HTML5 Semantic Elements (header, footer, article, section, etc.)
- Forms and Input

Content

- Text Formatting (headings, paragraphs, lists, etc.)
- Links, Images, and Multimedia (audio, video)
- Tables and Forms
- Embedding and Iframes

Advanced Topics

- HTML5 APIs (Geolocation, Local Storage, etc.)
- Accessibility (ARIA roles and attributes)

CSS (Cascading Style Sheets)

Introduction

- Basics of CSS
- CSS Syntax and Selectors

Styling

- Text and Font Properties
- Backgrounds, Borders, and Colors
- Box Model (margin, border, padding, content)
- Positioning (static, relative, absolute, fixed, sticky)

Layout

- Flexbox
- CSS Grid
- Responsive Design (media queries, viewport settings)

Advanced Topics

- CSS Animations and Transitions
- CSS Variables

JavaScript

Introduction

- Basics of JavaScript
- Data Types and Variables
- Operators and Expressions

Control Structures

- Conditionals (if, else, switch)
- Loops (for, while, do-while)

Functions

- Function Definitions and Invocations
- Scope and Closures
- Arrow Functions

Objects and Arrays

- Object Literals and Constructors
- Array Methods
- JSON

DOM Manipulation

- Selecting and Modifying DOM Elements
- Event Handling
- Form Validation

Advanced Topics

- ES6 Features (let, const, spread operator, destructuring)
- Promises and Asynchronous Programming (async/await)
- Fetch API and AJAX

Bootstrap

Introduction

- Basics of Bootstrap
- Bootstrap Grid System

Components

- Typography and Utilities
- Buttons, Forms, and Input Groups
- Navigation (Navbar, Breadcrumbs, Pagination)

Layout

- Modals, Tooltips, Popovers
- Cards, Jumbotrons, Alerts
- Carousel and Media Objects

Advanced Topics

- Customizing Bootstrap (using Sass)
- Bootstrap with JavaScript (collapse, dropdowns)

PHP (Hypertext Preprocessor)

Introduction

- Basics of PHP
- Syntax and Variables
- Operators and Expressions

Control Structures

- Conditionals and Loops
- Functions and Arrays

Object-Oriented Programming

- Classes and Objects
- Inheritance and Polymorphism

File Handling

- Reading and Writing Files
- Uploading Files

Advanced Topics

- Sessions and Cookies
- Error Handling
- PHP Security (SQL Injection, XSS)

MySQL

Introduction

- Basics of MySQL
- SQL Syntax and Commands

Database Operations

- Creating and Modifying Tables
- Inserting, Updating, Deleting Records
- Selecting Data (queries, joins, subqueries)

Advanced Topics

- Indexes and Constraints
- Transactions
- Stored Procedures and Triggers

CodeIgniter (CI) Framework

Introduction

- Basics of CodeIgniter
- MVC Architecture

Setup and Configuration

- Installing CodeIgniter
- Configuration Files

Working with Controllers

- Creating Controllers
- Routing

Working with Models

- Creating Models
- Database Operations with Active Record

Working with Views

- Creating Views
- Passing Data to Views

Form Handling and Validation

- Form Helpers
- Form Validation Library

Advanced Topics

- Session Management
- Email Handling
- File Uploading
- Creating RESTful APIs

Deployment

- Deploying CodeIgniter Applications
- Best Practices for Security and Performance

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