

What Student will Achieve During This Course?

Learn how to use HTML5 from beginner level to advanced techniques which is taught by experienced working professionals. With our HTML5 Training you'll learn concepts in expert level with practical manner and with live projects.

❖ STAGE-1

- ◆ HTML – Introduction
- ◆ HTML – Elements
- ◆ HTML – Tags
- ◆ HTML – Text
- ◆ HTML – Formatting
- ◆ HTML – Pre
- ◆ HTML – Attributes
- ◆ HTML – Font
- ◆ HTML – Text Links
- ◆ HTML – Comments
- ◆ HTML – Lists
- ◆ HTML – Images
- ◆ HTML – Image Links
- ◆ HTML – Tables
- ◆ HTML – Bgcolor
- ◆ HTML – Color Codes
- ◆ HTML – Color Chart
- ◆ HTML – Background
- ◆ HTML – Forms
- ◆ HTML – Input
- ◆ HTML – Text Fields
- ◆ HTML – Password
- ◆ HTML – Reset
- ◆ HTML – Submit
- ◆ HTML – Checkboxes
- ◆ HTML – Radio
- ◆ HTML – Select
- ◆ HTML – Hidden Fields
- ◆ HTML – Upload

- ◆ HTML – Textarea
- ◆ HTML – Body
- ◆ HTML – Meta
- ◆ HTML – Style
- ◆ HTML – Div
- ◆ HTML – Layouts
- ◆ HTML – Frames
- ◆ HTML – Bold
- ◆ HTML – Paragraphs
- ◆ HTML – Headings
- ◆ HTML – Line Breaks
- ◆ HTML – Email
- ◆ HTML – Italic

HTML5 Syllabus

- ◆ <article>
- ◆ <aside>
- ◆ <figcaption>
- ◆ <figure>
- ◆ <footer>
- ◆ <header>
- ◆ <mark>
- ◆ <nav>
- ◆ <progress>
- ◆ <section>
- ◆ <summary>
- ◆ <time>
- ◆ <datalist>
- ◆ <keygen>
- ◆ <output>
- ◆ Color
- ◆ Date
- ◆ Datetime
- ◆ Datetime-local
- ◆ Email



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- ◆ Month
- ◆ Number
- ◆ Range
- ◆ Search
- ◆ Tel
- ◆ Url
- ◆ Time
- ◆ Week

Form Attributes

- ◆ autocomplete
- ◆ autofocus
- ◆ form
- ◆ formaction
- ◆ formenctype
- ◆ formmethod
- ◆ formnovalidate
- ◆ formtarget
- ◆ height and width
- ◆ list
- ◆ min and max
- ◆ multiple
- ◆ pattern (regexp)

CSS Introduction

- CSS Syntax
- CSS Selectors (ID, Class, Tags, Attributes)
- CSS Styling

Styling Backgrounds

- Styling Text
- Styling Fonts
- Styling Links
- Styling Lists
- Styling Tables

CSS Box Model

- CSS Border
- CSS Outline
- CSS Margin
- CSS Padding
- CSS Dimension
- CSS Display
- CSS Positioning
- CSS Floating
- CSS Navigation Bar
- CSS Image Gallery
- CSS Image Opacity
- CSS Align
- Borders
- border-radius
- Border Images
- Backgrounds
- Background Size
- background-origin
- Text Effects
- text-shadow
- box-shadow
- Text
- text-overflow



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- ➔ word-wrap
- ➔ word-break
- ➔ Fonts

Transforms

- ➔ 2D Transforms
- ➔ 3D Transforms
- ➔ transition-delay
- ➔ transition-duration
- ➔ transition-property
- ➔ transition-timing-function

Bootstrap -5

Bootstrap-5 Introduction

- ➔ Introduction
- ➔ Containers
- ➔ Typography
- ➔ Colors
- ➔ Tables
- ➔ Images
- ➔ Alerts
- ➔ Buttons
- ➔ Button Groups
- ➔ Badges
- ➔ Progress Bar
- ➔ Spinners
- ➔ Pagination
- ➔ List Groups
- ➔ Cards
- ➔ Dropdowns
- ➔ Navs
- ➔ Navbar

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- ➔ Carousel
- ➔ Modal
- ➔ Bootstrap Forms
- ➔ Select Menus
- ➔ Check and Radio Buttons
- ➔ Range
- ➔ Input Groups
- ➔ Floating Label

JAVA SCRIPT

Java Script Introduction

- ➔ JS Comment
- ➔ JS Variable
- ➔ JS Global Variable
- ➔ JS Data Types
- ➔ JS Operators
- ➔ JS Control Statements
- ➔ JS Loops
- ➔ JS Functions

Java Script Objects

- ➔ JS Object
- ➔ JS Array
- ➔ JS String
- ➔ JS Date
- ➔ JS Math
- ➔ JS Number

Java Script DOM

- ➔ Window Object
- ➔ History Object
- ➔ Navigator Object
- ➔ Screen Object

Java Script DOM

- ➔ **getElementById**
- ➔ **getElementsByName**
- ➔ **getElementsByClassName**
- ➔ **getElementsByTagName**
- ➔ **innerHTML**
- ➔ **innerText**

Java Script Events

- ➔ **Javascript Events**
- ➔ **addEventListener**
- ➔ **onclick**
- ➔ **dblclick**
- ➔ **onload**
- ➔ **onresize**

Java Script Cookies

- ➔ **JS Cookies**
- ➔ **Cookie Attribute**
- ➔ **Cookie with Multiple Name**
- ➔ **Deleting Cookies**

JavaScript validation

- ➔ **Form validation**
- ➔ **Email validation**

TYPE SCRIPT

Introduction:

- ♦ What is TypeScript?
- ♦ Benefits of TypeScript:
- ♦ Setup the Environment
- ♦ First TypeScript Example

Data Types and Variables:

- ♦ Basic Data Types
- ♦ Arrays
- ♦ Tuples
- ♦ Enum
- ♦ Any and void
- ♦ null and undefined
- ♦ Type Inference
- ♦ Type Casting
- ♦ Difference between let and var , Const declaration

Destructuring & Spread

- ♦ Array Destructuring
- ♦ Object Destructuring
- ♦ Mixed Destructuring
- ♦ Property renaming
- ♦ Default Values Spreads

Working with Classes

- ♦ Writing and Using Classes
- ♦ Constructor method
- ♦ Inheritance of classes
- ♦ Type casting

- ❖ Type Assertion
- ❖ Static Properties
- ❖ Abstract class

Working with Interfaces

- ❖ Interface Declaration and Initialization with an object
- ❖ Duck Typing
- ❖ Interface Implementation by class
- ❖ Interface having Optional Property
- ❖ Class extending another class and also implementing an Interface
- ❖ Excess Property Checks
- ❖ Indexable Types , Extending Interfaces

Generics

- ❖ When to Use Generic Functions
- ❖ Generic Types
- ❖ Generic Interface
- ❖ Generic Classes
- ❖ Generic Constraints
- ❖ Using Type Parameters in Generic Constraint

Modules and Namespaces

- ❖ Export Syntax
- ❖ Import Syntax
- ❖ Re-export
- ❖ Default exports
- ❖ Using require()
- ❖ Declaring and Using Namespaces

Ambients

In this module we will learn how to make use of our javascript functions with typescript

- ❖ Definition
- ❖ Syntax

NODE JS

Module 1:- Introduction to Node JS

- ♦ Introduction
- ♦ What is Node JS?
- ♦ Advantages of Node JS
- ♦ Traditional Web Server Model
- ♦ Node.js Process Model

Module 2:- Setup Dev Environment

- ♦ Install Node.js on Windows
- ♦ Working in REPL
- ♦ Node JS Console

Module 3:- Node JS Modules

- ♦ Functions
- ♦ Buffer
- ♦ Module , Module Types
- ♦ Core Modules , Local Modules , Module Exports

Module 4:- Node Package Manager

- ♦ What is NPM
- ♦ Installing Packages Locally
- ♦ Adding dependency in package.json
- ♦ Installing packages globally
- ♦ Updating packages

Module 5:- Creating Web server

- ♦ Creating web server
- ♦ Handling http requests
- ♦ Sending requests

Module 6:- File System

- ♦ Fs.readFile
- ♦ Opening a file

- ❖ Deleting a file

Module 7:- Database connectivity

- ❖ Connection string
- ❖ Configuring
- ❖ Working with select command
- ❖ Updating records
- ❖ Deleting records

REACT JS

Introduction

- ❖ First App overview
- ❖ React JS Project Files
- ❖ Let , Const and Var
- ❖ Install Node JS
- ❖ Create React App
- ❖ Why React App?
- ❖ Important Functional

First React Application

- ❖ React Project Structure
- ❖ React DOM, Elements and JSX
- ❖ React Component
- ❖ Classes
- ❖ Inheritance and a Closer Component
- ❖ State , setState
- ❖ React Rule : Never Directly Modify State
- ❖ Class Properties and Initializers
- ❖ Props and Project Component

Hello React

- ❖ Setting up Web Server
- ❖ Hello React
- ❖ Setting up Babel
- ❖ Exploring JSX

- ❖ JSX Expressions
- ❖ Conditional Rendering in JSX
- ❖ ES6 Aside : const and let
- ❖ ES6 Aside : Arrow Functions
- ❖ Events and Attributes
- ❖ Manual Data Binding
- ❖ Forms and Inputs
- ❖ Arrays in JSX

React Components

- ❖ ES6 Classes
- ❖ Creating React Component
- ❖ Nesting Component
- ❖ Component Props
- ❖ Events and Methods
- ❖ Method Binding
- ❖ Component State
- ❖ Adding State to Counter App
- ❖ Adding State to Visibility Toggle
- ❖ Indecision State

Stateless Functional Components

- ❖ Introduction to Stateless Functional Component
- ❖ Stateless Component
- ❖ Default Prop values
- ❖ React Dev Tools
- ❖ Removing Individual tools
- ❖ Life cyle method

Stylling React

- ❖ Introduction to Stylling React
- ❖ Setting up Web Pack with SCSS
- ❖ Architecture and Header Styles
- ❖ React that \$#!*
- ❖ Theming with Variables

- ❖ Big Button and Option List
- ❖ Styling Option List
- ❖ Styling Option Item
- ❖ Styling React Modal

MONGO-DB

What Student will Achieve During This Course?

MongoDB tutorial provides basic and advanced concepts of SQL. Our MongoDB tutorial is designed for beginners and professionals. MongoDB is a No SQL database. It is an open-source, cross-platform, document-oriented database written in C++.

MONGO DB

- ❖ Introduction
- ❖ What you learn?
- ❖ What is Mongo DB?
- ❖ MongoDB vs MySQL
- ❖ What is JSON & BSON?
- ❖ Environment Setup
- ❖ Installing Mongo Shell
- ❖ Working with MongoDB Commands
- ❖ Creating Database and Collections
- ❖ Insert Data
- ❖ Select Data
- ❖ Update Data
- ❖ Delete Data
- ❖ Creating Collection
- ❖ Installing Mongo DB Compass GUI
- ❖ What is Mongo DB Drivers
- ❖ Finding Data
- ❖ Cursors in Mongo DB
- ❖ Converting Data to Array
- ❖ ForEach Loop
- ❖ Projection in Mongo DB
- ❖ Getting Default values
- ❖ Using Limit

- Using Skip
- Ordering and Sorting Data
- Query Operators
- Filtering Less than or Greater Than
- Filtering with “In”
- Filtering with “And”, “Or” Operators
- Filtering with Regex Operators
- Node JS + Mongo DB CRUD
- What is Mongoose?
- CRUD Project using Mongoose
- Mongo DB Relationships / Joining Collections
- One to One Relationship
- One to Many Relationship
- Many to Many Relationship

EXPRESS-JS

What Student will Achieve During This Course?

Express.js tutorial provides basic and advanced concepts of Express.js. Our Express.js tutorial is designed for beginners and professionals both. Express.js is a web framework for Node.js. It is a fast, robust and asynchronous in nature

EXPRESS JS

- Introduction to Express JS
- Why we need Express JS?
- Environment Setup
- Using Middlewares
- Sending Response using Send Method
- How Express works?
- Handling Different URL Requests / Routers
- Parsing Data from Request
- Handling Only POST Requests
- Using Express Router
- Sending 404 Error Response
- Filtering URL Paths / URL Prefix
- Creating HTML Pages



FULLSTACK WEB DEVELOPMENT

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- Serving HTML Pages / Building Filepath
- Returning 404 Page / Using Dirname
- Using Helper File
- Styling HTML Pages
- Serving Static Files / Loading CSS Files

