

## HTML

- What is Internet, HTTP/HTTPS, WWW, Domain name and Top Domain name
- SEO, What is HTML, What is Text Editor, Web Browser, Downloading Text Editor , HTML Structure, First Program in HTML
  - 1) HTML Introduction
  - 2) HTML Getting Started
  - 3) HTML Elements
  - 4) HTML Attributes
  - 5) HTML Basic Tags
- 1) HTML Doctypes 2) HTML Layout 3) HTML Head 4) HTML Meta 5) HTML Scripts
- Tags and self Closing Tags, Basic Tag , Attribute and Events, Marquee Tag
- HTML – Meta Tags, HTML – Comments, HTML – Images, HTML – Tables, HTML – Lists, HTML – Text Links, HTML – Image Links
- HTML Headings HTML Paragraphs HTML Links HTML Text Formatting HTML Styles HTML Images
- HTML – Frames, HTML – Iframes, HTML – Blocks, HTML – Backgrounds, HTML – Colors, HTML
- Anchor Tag, Img Tag, Image Mapping
- HTML – Fonts, HTML – Forms, HTML – Embed Multimedia ,HTML – Marquees, HTML – Header, HTML – Style Sheet, HTML – Javascript ,HTML – Layouts
- List Tag, Tables, Forms
- HTML – Tags Reference, HTML – Attributes Reference, HTML – Events Reference, HTML – Fonts Reference, HTML – ASCII Codes, ASCII Table, Lookup, HTML – Color Names, HTML – Entities, HTML – Fonts, Ref HTML – Events, Ref MIME Media Types, HTML – URL Encoding L
- HTML online editor
- HTML Tables HTML Lists HTML Forms HTML Iframes

## CSS-CSS3

- 1) CSS 2) In-line CSS Internal Style External Style Sheet @import Style Sheet 3) CSS Class CSS ID
- What is CSS How to Implement CSS Class and ID Width and Height Css Unit Box Model (Margin,padding,Border) and create basic template design
- CSS Selectors , Pseudo Classes and Elements , Float and Clear and Alignment , Font Styling , Opacity and Visibility , Line Height
- 1) CSS Text 2)CSS Font 3) CSS Background 4) CSS Links 5) CSS Lists 6) CSS Display 7) CSS Visibility

- Creating Header of Website , Outline , Background , Counter increment , Counter reset ,Cursor and Overflow
- Position , Creating Submenu , Border Radius, Transform , Animation , Font Awesome Icons
- 1) CSS Layout Model 2) CSS Border 3) CSS Margin 4) CSS Padding 5) CSS Outline
- Font Family Through Google Font , import fontface rule ,FlexBox
- 1) CSS Float 2) CSS Align 3) CSS Position 4) CSS Element Size 5) CSS Layer
- 1) CSS Pseudo Class Selector 2) CSS Pseudo Element Selector
- CSS Properties 1) Background, 2) border 3) bottom 4) caption-side 5) clear 6) clip 7) color 8) content
- 1) counter-increment 2) counter-reset 3) cursor 4) direction 5) display 6) empty-cells
- 1) float 2) font 3) height 4) left 5) letter-spacing 6) line [height, style, style-7) image, style-position, 8) style-type] 9) margin 10) outline 11) overflow 12) padding
- 1) page-break 2) position 3) quotes 4) right 5) table-layout 6) text 7) top 8) vertical-align 9) visibility 10) white-space 11) width 12) word-spacing 13) z-index
- Media Query (For Responsive Website) , Creating a Responsive Website
- Validate a Website, Hosting a website with free domain name, Column , Clippath , Gradient Color , Filter, Border Image

## HTML5

- HTML5 Tags, HTML5 Input and Attribute
- Audio and Video, Semantic Element in HTML5
- Canvas, Svg and Display Grid

## JAVASCRIPT

- 1) JS Introduction 2) JS Getting Started 3) JS Syntax 4) JS Variables 5) JS Generating Output 6) JS Data Types 7) JS Operators 8) JS Events 9) JS Strings 10) JS Numbers 11) JS If, Else 12) JS Switch Case
- What is Javascript, Creating First Javascript Program, Way to apply Javascript , Event in Javascript , How to select Tag Classes and Id
- Practical Example: 1) Create program for input color and output that code 2) Create program for pattern using loop
- Functions, Alert ,Confirm , Prompt , Addition of Two Number , Hide and Show Password
- a) JS Arrays b) JS Sorting Arrays c) JS Loops d) JS Functions e) JS Objects
- How to apply CSS using Javascript, Image Changing

- If Else Statement, Javascript Form Validation
- JAVASCRIPT & DOM 1) JS DOM Nodes 2) JS DOM Selectors 3) JS DOM Styling 4) JS DOM Get Set Attributes 5) JS DOM Manipulation 6) JS DOM Navigation
- How to see Traffic in Our Website
- JAVASCRIPT ADVANCED 1) JS Date and Time 2) JS Math Operations 3) JS Type Conversions 4) JS Event Listener 5) JS Regular Expressions 6) JS Error Handling

## JQUERY ADDVANCED

- jQuery Basic a) jQuery Introduction b) jQuery Getting Started c) jQuery Syntax d) jQuery Selectors e) jQuery Events
- What is JQuery , Downloading JQuery File , First Program in JQuery
- JQuery Syntax , Query Selector, Hide , Slide , Fade Effect in JQuery
- JQuery Effects 1) jQuery Show/Hide 2) jQuery Fade 3) jQuery Slide 4) jQuery Animation 5) jQuery Stop 6) jQuery Chaining 7) jQuery Callback
- How to Apply CSS Using JQuery, How to Add Class and Remove Class in JQuery , JQuery Animation
- Filter using JQuery , JQuery Slider Plugin , Validation Plugin
- JQuery Advanced 1) jQuery Traversing 2) jQuery Ancestors 3) jQuery Descendants 4) jQuery Siblings 5) jQuery Filtering 6) jQuery Load 7) jQuery No-Conflict
- Zoom Plugin, Now Make Your Existing Website Dynamic with Javascript and JQuery

## BOOTSRAP

- Bootstrap Basic 1) Bootstrap Introduction 2) Bootstrap Getting Started 3) Bootstrap Grid System 4) Bootstrap Fixed Layout 5) Bootstrap Fluid Layout 6) Bootstrap Responsive Layout
- 1) Bootstrap Typography 2) Bootstrap Tables 3) Bootstrap Lists 4) Bootstrap List Groups 5) Bootstrap Forms 6) Bootstrap Custom Forms 7) Bootstrap Input Groups 8) Bootstrap Buttons 9) Bootstrap Button Groups
- 1) Bootstrap Images 2) Bootstrap Cards 3) Bootstrap Media Objects 4) Bootstrap Icons 5) Bootstrap Navs 6) Bootstrap Navbar 7) Bootstrap Breadcrumbs 8) Bootstrap Pagination 9) Bootstrap Badges 10) Bootstrap Progress Bars 11) Bootstrap Spinners 12) Bootstrap
- Bootstrap Advanced 1) Bootstrap Modals 2) Bootstrap Dropdowns 3) Bootstrap Tabs 4) Bootstrap Tooltips 5) Bootstrap Popovers 6) Bootstrap Alerts 7) Bootstrap Stateful Buttons 8) Bootstrap Accordion 9) Bootstrap Carousel 10) Bootstrap Typeahead 11) Bootstrap

- Interaction: alert, prompt, confirm, Type Conversions, Basic operators, maths, Comparisons, Conditional branching: if, '?'
- Logical operators, Nullish coalescing operator '??', Loops: while and for, The "switch" statement, Functions, Code Quality, Debugging in Chrome, Coding Style, Comments

## DATA TYPES AND OBJECTS

- Data types, Methods of primitives, Numbers, Strings, Arrays, Array methods, Iterables, Map and Set, WeakMap and WeakSet
- keys, values, entries, Destructuring assignment, Date and time, JSON methods, toJSON
- Objects: the basics, Objects, Object references and copying, Garbage collection, Object methods, "this"
- Constructor, operator "new", Optional chaining '?.', Symbol type, Object to primitive conversion

## DOCUMENTS AND EVENT CONTROL

- Document, Browser environment, specs, DOM tree, Walking the DOM, Searching: getElement\*, querySelector\*
- Node properties: type, tag and contents, Attributes and properties, Modifying the document, Styles and classes
- Introduction to Events, Introduction to browser events, Bubbling and capturing, Event delegation, Browser default actions, Dispatching custom events
- UI Events, Mouse events, Moving the mouse: mouseover/out, mouseenter/leave, Drag'n'Drop with mouse events, Pointer events, Keyboard: keydown and keyup, Scrolling
- Forms, controls, Form properties and methods, Focusing: focus/blur, Events: change, input, cut, copy, paste, Forms: event and method submit

## NETWORK REQUEST

- Network requests, Fetch, Form Data, Fetch: Download progress, Fetch: Abort, Fetch: Cross-Origin Requests, Fetch API
- URL objects, XMLHttpRequest, Resumable file upload, Long polling, WebSocket, Server Sent Events

## REACT-COMPONENT, STATE, PROPS

- Installation – Add React to a HTML Website – Create New React App – Hello World
- Getting started in React
- JSX
- Components
- Component Composition
- JSX – Why JSX? – Embedding Expressions in JSX – Attributes with JSX – Children with JSX
- Props & Prop Types
- Event Handlers
- State
- React Web App
- Components, State, Props – Function Component – Class Component – Props – State – Class Component Lifecycle

### **LISTS AND HOOKS**

- Conditional Rendering – Lists and Keys – Forms – Handling Events – Lifting State up
- Hooks – Introduction – Using the State hook – Using the Effect hook – Rules of Hook – Custom Hook

### **REACT-STYLE AND ADVANCED**

- Creating the first App
- Understanding the App
- Styling the App
- Inspecting & Debugging styles
- Built-in components
- Working with Images
- ListViews
- TextInput
- Styling React Components – CSS stylesheet – Inline Styling – CSS Modules – CSS in JS Libraries (styled components)
- Creating Views (Scenes)
- Conditional Rendering – Lists and Keys – Forms – Handling Events – Lifting State up
- Hooks – Introduction – Using the State hook – Using the Effect hook – Rules of Hook – Custom Hook

- Advance Concepts – Context, useContext() – Working with Refs and useRefs() – Fragments – Performance optimization with useMemo() – Styling React Components – CSS stylesheet – Inline Styling – CSS Modules – CSS in JS Libraries (styled components)
- Bootstrap with React
- React Router – Browser – Router – Link – Route – Template integration – Http Request in React – Get and Post data

## **REACT ROUTER**

- React Router
- Browser - Router - Link - Route
- Template in tegration – Http Request in React – Get and Post data

## **REACT-APPLYING REDUX**

- State
- State storage problem
- Redux Basics
- Redux Principles
- Implementing Redux
- React-Redux
- Middleware
- Counter App Demo
- Redux – Complexity of Managing state – Understand the Redux Flow – Setting up Reducer and store – Dispatching Actions – Passing and Retrieving Data with Action – Combining Multiple Reducers – Adding Middleware – Redux Dev tools