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Front-end web Developer

- **Course introduction.**
- **What is a front-end web dev.**
- **What is HTML/HTML5.**
- **How to create web structure using HTML/HTML5.**
- **What is CSS/CSS3.**
- **How to style/attractive web structure using CSS/CSS3**
- **How to use jQuery/JS create dynamic functionality on the web**
- **Write clean and maintainable code like a professional**
- **Cross-Browser Compatibility**
- **Learn Responsive Web page**
- **What is SASS (Syntactically Awesome Stylesheet).**
- **Live Project traning.**

HTML/HTML5:-

- ☐ What is HTML?
- ☐ Why to Learn HTML?
- ☐ HTML Editors
- ☐ HTML Browser
- ☐ HTML Versions
- ☐ HTML Document Structure
- ☐ The <!DOCTYPE> Declaration
- ☐ HTML The Head Element
- ☐ HTML The Body Element
- ☐ HTML Meta Tags
 - Charset
 - Name
 - Content
 - Http-equiv (refresh)
- ☐ What is an HTML Element?
- ☐ What is HTML Tags
 - Container tag (opening and closing tag)
 - Empty Tag (only opening tag)

- ☐ HTML Attributes
- ☐ HTML Comments
- ☐ HTML Style Guide
- ☐ HTML Headings
 - Heading 1
 - Heading 2
 - Heading 3
 - Heading 4
 - Heading 5
 - Heading 6
- ☐ HTML Paragraphs
- ☐ HTML Line Breaks
- ☐ HTML Styles
- ☐ HTML Style Sheet
- ☐ HTML Fonts Tag
 - Color, Size, Face
- ☐ HTML Text Formatting Elements
 - and Elements
 - <i> and Elements
 - <small> Element
 - <mark> Element

- Element
- <ins> Element
- <sub> Element
- <sup> Element

☐ HTML Quotation and Citation Elements

- <blockquote> for Quotations
- <q> for Short Quotations
- <abbr> for Abbreviations
- <address> for Contact Information
- <cite> for Work Title
- <bdo> for Bi-Directional Override

☐ HTML Preformatted (pre) & Horizontal (hr) rule

☐ HTML Links (Anchor Tag)

- target
- href
- download
- link (parent div attr)
- vlink (parent div attr)
- alink (parent div attr)

☐ HTML Link in Internal Page (#id)

☐ HTML File Paths

☐ HTML Images

- Src
- Alt
- Width
- height

☐ HTML Image Links

☐ HTML Figure and Figcaption Tag

☐ HTML Email Links

☐ HTML Telephone Links

☐ HTML Favicon

☐ HTML Tables

- thead
- tbody
- tfoot
- tr
- th
- Td
- Colspan
- Rowspan
- Table fully styles
- Nested Table in HTML

☐ HTML Lists

- Unordered HTML List
- Unordered Nested
- Ordered HTML List
- Ordered Nested
- Description Lists

- ❑ HTML Block and Inline Elements
- ❑ HTML class Attribute
- ❑ HTML id Attribute
- ❑ HTML Iframes
- ❑ HTML Nested Iframes
- ❑ HTML Backgrounds
- ❑ HTML Entities Code
- ❑ [HTML Responsive Viewport meta](#)
- ❑ HTML Computer Code Elements
 - `<code>` for Code Elements
 - `<kbd>` For Keyboard Input
 - `<samp>` For Program Output
- ❑ HTML JavaScript
- ❑ HTML Character Sets
- ❑ HTML Semantic Elements / Tags
 - `<header>` Element
 - `<footer>` Element
 - `<nav>` Element
 - `<section>` Element
 - `<article>` Element
 - `<aside>` Element
 - `<figure>` and `<figcaption>` Elements Etc..

❏ HTML Marquees

- Direction
- Behavior
- ScrollDelay
- ScrollAmount
- Loop etc..

❏ HTML Forms

- Form Elements
- Form Attributes
- Input Types
- Placeholder
- Text Input Controls
- Checkboxes Controls
- Radio Box Controls
- Select Box Controls
- File Select boxes
- Hidden Controls
- Clickable Buttons
- Textarea
- Submit and Reset Button
- Autocomplete
- Required
- Disabled
- minlength and maxlength etc..

❏ HTML New Input Type

- color
- Number
- Range

- Date
- Datetime-local
- Month
- Week
- Time
- Email
- Search
- Tel
- Url
- Image etc..

HTML Progress Tag

HTML Media

- Video
 - Source
 - Autoplay
 - Controls
 - Loop
 - Muted
 - Src
 - Poster
- Audio
 - Source
 - Autoplay
 - Controls
 - Loop
 - Muted
 - src
- YouTube Videos

CSS/CSS3:-

- ☐ What is CSS?
- ☐ Why to Learn CSS?
- ☐ Why Use CSS?
- ☐ Advantages of CSS
- ☐ What is CSS Syntax
- ☐ CSS Selectors
 - Simple selectors
 - Combinator selectors
 - Pseudo-class selectors
 - Pseudo-elements selectors
 - Attribute selectors
 - Grouping Selectors
 - Universal selectors (*)
- ☐ How To Add CSS
 - External CSS
 - Internal CSS
 - Inline CSS
- ☐ CSS Comments
- ☐ CSS Colors
 - RGB Colors
 - HEX Colors
 - HSL Colors

❑ CSS Backgrounds

- background-color
- background-image
- background-repeat
- background-position
- background-attachment
- background

❑ CSS Fonts Style

- font-family
- font-style
- font-variant
- font-weight
- font-size
- font

❑ CSS Text Style

- color
- direction
- letter-spacing
- word-spacing
- text-align
- text-decoration
- text-transform
- white-space
- text-shadow
- text-indent

☐ CSS Box Model

☐ CSS Borders

- border-style
- border-width
- border-color
- border-left
- border-right
- border-top
- border-bottom
- border

☐ CSS Margins

- margin-bottom
- margin-top
- margin-left
- margin-right
- margin

☐ CSS Padding

- padding-bottom
- padding-top
- padding-left
- padding-right
- padding

☐ Difference between Margin and Padding

☐ CSS Box-Sizing

☐ Multiple Style Sheet or Priority of Style Sheets

☐ Reset Default Browser CSS

❑ CSS Width

- max-width
- min-width

❑ CSS Height

- max-height
- min-height

❑ CSS Links Style

- :link
- :visited
- :hover
- :active

❑ CSS Outline

- outline-width
- outline-style
- outline-color
- outline-offset
- Outline

❑ CSS Tables Style

- border-collapse
- border-spacing
- caption-side
- empty-cells
- table-layout

☐ Vertical Align Property

☐ CSS Lists Style

- list-style-type
- list-style-position
- list-style-image
- list-style

☐ CSS Display Property

- inline
- inline-block
- block
- flex
- table
- table-row
- table-cell
- list-item
- none, etc....

☐ CSS Float Property

☐ CSS Clear Property

☐ CSS Cursors Style

☐ CSS Overflow Property

- overflow-x
- overflow-y
- overflow

- ☐ CSS Position Property
- ☐ CSS Z-index Property
- ☐ CSS Align Text/Image
- ☐ CSS Combinators
 - descendant selector (space)
 - child selector (>)
 - adjacent sibling selector (+)
 - general sibling selector (~)
- ☐ CSS Opacity Property
- ☐ CSS Menu Bar
- ☐ CSS Dropdowns
- ☐ CSS Forms Style
- ☐ CSS Counters
 - counter-reset
 - counter-increment
 - Content
- ☐ CSS !important Rule
- ☐ CSS Units
 - (em,rem,vh, vw,vmax,vmin and more)
- ☐ CSS Math Functions

CSS Advanced:-

☐ CSS Pseudo Classes

- :link
- :visited
- :hover
- :active
- :focus
- :focus-within
- :enabled
- :disabled
- :checked
- :required
- :read-only / :read-write
- :root
- :first-child
- :last-child
- :nth-child()
- :nth-of-type()
- :first-of-type
- :last-of-type
- :nth-last-of-type()
- :nth-last-child()
- :only-of-type
- :empty
- ::first-letter
- ::first-line
- ::marker (UL/OL List)
- ::selection

- ☐ CSS Pseudo Elements
 - ::before
 - ::after
- ☐ CSS ::placeholder
- ☐ CSS Visibility Property
- ☐ Difference between display none and visibility hidden
- ☐ CSS Attr() function
- ☐ CSS User-Select
- ☐ CSS @ Rules
 - @import
 - @font-face
- ☐ CSS Rounded Corners
 - border-top-left-radius
 - border-top-right-radius
 - border-bottom-right-radius
 - border-bottom-left-radius
 - border-radius
- ☐ CSS Rounded Styling Images
- ☐ CSS Border Images
- ☐ CSS Multiple Backgrounds
- ☐ CSS Gradients
- ☐ CSS Accent-Color
- ☐ CSS filter Property
- ☐ CSS Media Types
 - @media print
 - @media screen

❑ CSS Color Keywords

- transparent Keyword
- currentcolor Keyword
- inherit Keyword

❑ CSS Shadow Effects

- Text Shadow
- Box Shadow

❑ CSS Text Effects

- text-overflow
- word-wrap
- word-break
- writing-mode
- white-space

❑ CSS Web Fonts

- @font-face

❑ CSS with Google Fonts

❑ CSS 2D Transforms

- translate() Method
- rotate() Method
- scale() Method
- skew() Method
- matrix() Method etc...

❑ CSS 3D Transforms

- rotateX() Method
- rotateY() Method
- rotateZ() Method

❑ CSS Transitions

- transition
- transition-delay
- transition-duration
- transition-property
- transition-timing-function

❑ CSS Animations

- @keyframes
- animation-name
- animation-duration
- animation-delay
- animation-iteration-count
- animation-direction
- animation-timing-function
- animation-fill-mode
- Animation

❑ CSS Tooltip

❑ CSS object-fit Property

❑ CSS object-position Property

❑ CSS Buttons Styling

❑ CSS Pagination Examples

❑ CSS Multiple Columns

- column-count
- column-gap
- column-rule
- column-rule-color
- column-rule-style
- column-rule-width
- column-span
- column-width

❑ CSS User Interface

- resize
- outline-offset

❑ CSS Variables

❑ CSS Flexbox

- flex-direction
- flex-wrap
- flex-flow
- justify-content
- align-items
- align-content

- order
- flex-grow
- flex-shrink
- flex-basis
- flex
- align-self

- ☐ CSS Grid
- ☐ CSS Scrollbar Styling
- ☐ CSS with Icon Fonts (Font Awesome)
- ☐ CSS Cross Browser Capability

CSS Responsive:-

- ☐ What is Responsive Web Design?
- ☐ Responsive Web Design The Viewport
- ☐ Responsive Web Design Media Queries Breakpoint
- ☐ Responsive Web Design Grid-View
- ☐ Responsive Web Design Media Queries
- ☐ Responsive Web Design Templates

SCSS/SASS:-

- ☐ What is Sass?
- ☐ Why Use Sass?
- ☐ Sass Installation
- ☐ Sass Variables
- ☐ Sass Nested Rules
- ☐ Sass @import Files
- ☐ Sass @mixin and @include
- ☐ Sass @extend Directive

jQuery:-

- ❑ What is jQuery?
- ❑ Why jQuery?
- ❑ How to use jQuery?
 - Local Installation
 - CDN Based Version
- ❑ How to Call a jQuery Library Functions?
- ❑ How to Use Custom Scripts?
- ❑ jQuery Syntax
- ❑ jQuery Selectors
 - The element Selector
 - The #id Selector
 - The .class Selector etc..
- ❑ What are Events?
 - click() Event
 - dblclick() Event
 - mouseenter() Event
 - mouseleave() Event
 - mousedown() Event
 - mouseup() Event
 - hover() Event
 - focus() Event
 - blur() Event

- ☐ The on() Method
- ☐ jQuery hide()
- ☐ jQuery show()
- ☐ jQuery toggle()
- ☐ jQuery Fading Methods
 - fadeIn() Method
 - fadeOut() Method
 - fadeToggle() Method
 - fadeTo() Method
- ☐ jQuery Sliding Methods
 - slideDown() Method
 - slideUp() Method
 - slideToggle() Method
- ☐ jQuery Effects Animation
- ☐ jQuery stop()
- ☐ jQuery Callback Functions
- ☐ jQuery Method Chaining
- ☐ jQuery Get Content and Attributes
 - text()
 - html()
 - val()
 - attr()

❏ jQuery Set Content and Attributes

- text()
- html()
- val()
- attr()

❏ jQuery Add Elements

- append() Method
- prepend() Method
- after()
- before()
- appendTo()
- prependTo()

❏ jQuery Remove Elements

- remove() Method
- empty() Method

❏ jQuery Get and Set CSS Classes

- addClass() Method
- removeClass() Method
- toggleClass() Method
- css() Method

❏ jQuery Dimensions

- width() Method
- height() Method
- innerWidth() Method
- innerHeight() Method
- outerWidth() Method
- outerHeight() Method

- ☐ jQuery parent() Method
- ☐ jQuery parents() Method
- ☐ jQuery parentsUntil() Method
- ☐ jQuery children() Method
- ☐ jQuery find() Method
- ☐ jQuery siblings() Method
- ☐ jQuery next() Method
- ☐ jQuery nextAll() Method
- ☐ jQuery nextUntil() Method
- ☐ jQuery prev() Method
- ☐ jQuery prevAll() Method
- ☐ jQuery prevUntil() Method
- ☐ jQuery first() Method
- ☐ jQuery last() Method
- ☐ jQuery eq() method
- ☐ jQuery filter() Method
- ☐ jQuery not() Method

Live Project Training:-

- ☐ Fully Responsive Design across multiple device (ipad , iphone, mobile, large desktop etc)
- ☐ Compatibility checking across all / different browsers
- ☐ Implementation of animation & effective design techniques using jQuery.
- ☐ Design Template
- ☐ Use Bootstrap