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Professional Responsive Web Designing with HTML5, CSS3 and Twitter Bootstrap - Course Contents

Introduction to HTML5

- Browser-Server architecture of Web Applications and the role of HTML
- Evolution of HTML (HTML, XHTML, HTML5)
- Browser Support
- The DOCTYPE tag
- Basic HTML Tags (head, body, div, p span, a -hyperlink, relative, absolute and bookmarks)
- Attributes
- A basic introduction to HTML tables (header, footer, body, colspan, rowspan)
- Handling reserved characters with HTML entities
- Applying styles (colors, fonts etc...) - inline styles, the <styles> section and basic CSS syntax
- Introduction to CSS files and the need for CSS files.

CSS3 Selectors

- .class
- #id
- Element selector
- Group selector
- Descendant selector
- Child selector
- Attribute selector

- Pseudo selector
- Pseudo Element Selector

Working with DIV tags

- Margin and Paddings
- Positioning
- Float Property
- Display Property

HTML5 Semantic Elements and related SEO concepts

- Layout Elements
 - <article>
 - <aside>
 - <details>
 - <figcaption>
 - <figure>
 - <footer>
 - <header>
 - <main>
 - <mark>
 - <nav>
 - <section>
 - <summary>
 - <time>
- Semantic significance of Heading Tags
- Understanding semantic significance of Bold, Italics, Underline, Strong, Emphasized
- Understanding HTML5 comments, computercode, quotations, citation, address, abbreviations, blockquotes and bidirectional text
- Fallbacks for older browsers

HTML5 Forms 2.0 Elements

- Form (meaning of action and method)
- Input
 - Text
 - Submit, Radio
 - CheckBox
 - Date, Color
 - Password
 - DateTime
 - DateTime-Local
 - Email
 - Month
 - Number
 - Range
 - Search
 - Tel
 - Time
 - URL
 - Week
- HTML5 Attributes -Restrictions and Validations
 - value
 - readonly
 - disabled
 - size
 - maxlength
 - autocomplete
 - autofocus
 - form
 - formaction
 - formenctype
 - formmethod
 - formnovalidate
 - formtarget
 - height and width
 - list
 - min and max

- multiple
- pattern (regexp)
- placeholder
- required
- step

- Textarea
- Label
- Fieldset
- Legend
- Select
- Option
- Optgroup
- Button
- Datalist
- Keygen
- Output
- How to provide support for older browsers

Working with Images and Creating Professional Web Layouts

- CSS3 Properties
 - Text Properties
 - Web Font
 - Box Properties
 - Transparency
 - Multiple Backgrounds
 - Gradients
 - Transforms
 - Transitions and Basic Animations
 - Flexbox
- Working with Image Loading Techniques
 - Working with Sprites
 - Building Navigation using Sprites
 - Creating a HTML5 layout from a PSD

Working with HTML5 Graphics and Media elements

- HTML Canvas
- HTML SVG
- HTML Media
- HTML Video
- HTML Audio
- HTML Plugins
- HTML Youtube

Other HTML Concepts

- URL Encode
- Charsets
- Language Codes
- Country Codes
- Color Names
- Color Mixer
- Events
- Messages
- px,em and percent with conversion

Working with Advanced HTML APIs

(Will entail a short introduction to Javascript/JQuery)

- Geolocation
- Drag/Drop
- Local Storage
- Web Cache
- Web Workers
- SSE

Creating responsive site using Media Queries & Grids

- Viewport
- Densities
- Importing External Files

- What is Media Queries?
- Types of media
- Working with Grid layouts (fluid grids)
- Types of grid layout & frameworks
- Applying condition with CSS
- Making Images Responsive
- Creating layout for desktop browser, tablet & Mobiles

Working with Twitter Bootstrap

- What is Twitter Bootstrap
- Working with grids
- Applying Navigation
- Working with Javascript
- Styling (overriding) page elements

Working with LESS And SASS

- What is LESS and Sass
- Working with LESS variables and operator
- Defining nested CSS rules LESS built-in function
- Working with Sass variables and operator
- Defining nested CSS rules
- Importing external les