

# ActiveNET®

**Enterprise Solution Company**

**Suryanarayana**

## **Complete Web/UI Technologies**

### **Course Content**

HTML, CSS, JavaScript, HTML5, CSS3, jQuery, Bootstrap, AngularJS, node.js, Angular2, Express.js, MongoDB

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## **HTML**

- HTML Introduction
- HTML Document Elements
- Container Elements (Block Level Element & Inline Elements)
- Difference between applying attributes on HTML tags and separating styles using inline, internal and external style sheets using Tag, ID, CLASS selectors
- Heading Elements
- Text Formatting Elements
- Image Elements
- Anchor Elements
- FRAMESET & FRAME Elements
- Menu Elements (Ordered/Unordered Elements)
- Table Elements
- Formatting Layout with <P>, <DIV>, and <SPAN> Elements
- FORM Elements

## **CSS**

- CSS Introduction, CSS Syntax, CSS Selectors

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- CSS Backgrounds, CSS Text, CSS Fonts, CSS Links, CSS Lists, CSS Tables, CSS Box Model, CSS Border, CSS Outline, CSS Margin, CSS Padding, CSS Dimension, CSS Display, CSS Max-width, CSS Position, CSS Float, CSS Inline-block, CSS align, CSS Pseudo classes, CSS Pseudo Element, CSS Navigation Bar, CSS Image Gallery, Image Opacity, CSS Image Sprites, CSS Attribute Selectors.

## JavaScript

- Importance of JavaScript, Difference between Object Oriented and Object Based Programming Languages.
- Creation of JavaScript Code
- Var Declarations, Conditions, Loops, Data type Conversions, Operators, Writing and Accessing Functions.
- JavaScript supporting Events, JavaScript Objects
  - Window, Window.document, String, Date, Math, Number, Array, Boolean, RegExp, XMLHttpRequest and ActiveXObject.
- How to access HTML elements in JavaScript using hierarchical way and selector way.
- How to manipulate HTML elements using HTML DOM
- How to make AJAX call, get the XML or JSON output and read it using XML DOM and JSON Parser.
- HTML FORM validations using JavaScript.

## HTML5

- Difference between Semantic and Non-Semantic Elements
- HTML5 New Elements
  - (semantic elements - <header>, <footer>, <article>, <section>, <aside>, <details>, <figcaption>, <figure>, <main>, <mark>, <nav>, <summary>, <time>,
  - control attributes - number, date, time, calendar, range,
  - graphic elements - <svg>, <canvas>, multimedia elements - <audio> and <video>)
- HTML5 API (Geo, Drag and Drop, Local Storage, Application Cache, Web Socket, SSE)

## CSS3

- CSS3 Modules (Selectors, Box Model, Backgrounds and Borders, Image Values and Replace Content, Text Effects, 2D/3D Transformations, Animations, Multiple Columns, User Interface.
- Rounded Corners, Border Images, Backgrounds, Colors, Gradients, Shadows, Text, Box Sizing, Flexbox, Media Queries
- RWD Intro, RWD View Port, RWD Grid View, RWD Media Queries, RWD Images, RWD Videos, RWD Frameworks
- Web Safe Fonts, Animate, Units, PX-EM Converter, Colors, Color Values, Color HEX, Color Groups

## jQuery

- jQuery Introduction
  - Intro, Syntax, Selectors, Events
- jQuery Effects
  - hide(), show(), slide(), animate(), stop(), callback(), chaining
- jQuery HTML
  - get(), set(), add(), append(), prepend(), remove(), css(), dimensions
- jQuery Traversing

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- traversing, ancestors, descendants, siblings, filtering
- jQuery AJAX
  - load(), get(), post()
- jQuery Misc
  - noConflict()

## Bootstrap

- What is Bootstrap? Bootstrap History. Why use Bootstrap? How to install Bootstrap?
- Bootstrap Grids (Bootstrap Grid System, Grid Classes, Basic Structure of Bootstrap Grid, Equal, Unequal columns).
- Bootstrap Typography (Default Settings, <h1> - <h6>, <small>, <mark>, <abbr>, <blockquote>, <dl>, <code>, <kbd>, <pre>, Context Colors & Backgrounds, More Typography Classes)
- Bootstrap Tables (Basic Table, Striped Rows, Bordered Table, Hover Rows, Condensed Table, Contextual Classes, Responsive Tables)
- Bootstrap Images (Rounded Corners, Circle, Thumbnail, Responsive Images, Image Gallery, Responsive Embeds)
- Bootstrap Jumbotron and Page Headers (Creating Jumbotron, Inside Container, Outside Container, Page Header)
- Bootstrap Wells, Alerts, Buttons, Button Groups, Glyphicons, Badges/Labels, Progress Bars, Pagination, Pager, List Groups, Panels, Dropdowns, Collapse, Tabs/Pills, Navbar, Forms, Inputs, Inputs2, Input Sizing, Carousel, Modal, Tooltip, Popover, Scrollspy, Affix
- Bootstrap Themes (Templates, Simply Theme, Company Theme, Band Theme)

## AngularJS

- Angular Introduction - What is SPA?, How to install, Basic Page, Comparing JavaScript with AngularJS
- AngularJS Features - MVC Architecture, One-way data binding, Two-way data binding, Scopes, Directives, Expressions, Services, Filters, Routing, Dependency Injections, Templates, AJAX
- Angular Directives - are extended HTML attributes with "ng" prefix
- Expressions - are used to bind application data to html, written in {{expression}}
- Modules & Controllers - Module groups components, directives, pipes and services, controller is JavaScript object containing properties and functions
- Scopes - \$scope and \$rootScope - Scope is binding part between View and Controller
- Filters - Format the value of an expression for display to the user
- Table -
- Routing in SPA - with AngJS we can build SPA, loads a single page and dynamically updates the page as the user interacts with the web app
- HTML DOM - Document Object Model bind application data to the attributes of HTML DOM elements
- Forms, Events & Validations -
- Integrating AngularJS with Twitter Bootstrap
- Page Includes - <ng-include> used to embed an HTML Page into another HTML page
- AJAX using \$http - Calling RESTful Services using \$http methods and consuming JSON Formats
- Services - Factory Methods, Service Methods
- Dependency Injection - service, factory, provider, constant, value