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Syllabus Covered (HTML)

Introduction of different Web Technology

HTML Elements

- ✓ HTML Attributes
- ✓ HTML Headings
- ✓ HTML Paragraphs
- ✓ HTML Formatting
- ✓ HTML Fonts
- ✓ HTML Styles
- ✓ HTML Links
- ✓ HTML Images
- ✓ HTML Tables
- ✓ HTML Lists
- ✓ HTML Forms
- ✓ HTML Frames
- ✓ HTML Iframes
- ✓ HTML Colors
- ✓ HTML Colornames
- ✓ HTML Colorvalues
- ✓ HTML Quick List
- ✓ HTML Layout
- ✓ HTML Doctypes
- ✓ HTML Head
- ✓ HTML Meta
- ✓ HTML Scripts
- ✓ HTML Entities
- ✓ HTML URLs
- ✓ HTML URL Encode
- ✓ HTML Media
- ✓ HTML Audio
- ✓ HTML Object
- ✓ HTML Video
- ✓ HTML YouTube
- ✓ HTML Media Tags
- ✓ HTML Summary



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Syllabus Covered (HTML5)

- ✓ HTML5 Introduction
- ✓ HTML5 New Elements
- ✓ HTML5 Video
- ✓ HTML5 Video/DOM
- ✓ HTML5 Audio
- ✓ HTML5 Drag and Drop
- ✓ HTML5 Canvas
- ✓ HTML5 SVG
- ✓ HTML5 Canvas vs. SVG
- ✓ HTML5 Geolocation
- ✓ HTML5 Web Storage
- ✓ HTML5 App Cache
- ✓ HTML5 Web Workers
- ✓ HTML5 SSE
- ✓ HTML5 Tags

Syllabus Covered (CSS)

- ✓ CSS Introduction
- ✓ CSS Syntax
- ✓ CSS Id & Class
- ✓ CSS Styling
- ✓ Styling Backgrounds
- ✓ Styling Text
- ✓ Styling Fonts
- ✓ Styling Links
- ✓ Styling Lists
- ✓ Styling Tables
- ✓ CSS Box Model
- ✓ CSS Box Model
- ✓ CSS Border
- ✓ CSS Outline
- ✓ CSS Margin
- ✓ CSS Padding
- ✓ CSS Advanced
- ✓ CSS Grouping/Nesting
- ✓ CSS Dimension
- ✓ CSS Display
- ✓ CSS Positioning
- ✓ CSS Floating
- ✓ CSS Align
- ✓ CSS Navigation Bar
- ✓ CSS Image Gallery
- ✓ CSS Image Opacity



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- ✓ CSS Image Sprites
 - ✓ CSS Media Types
 - ✓ CSS hacking
 - ✓ CSS Summary
- Duration:- 20 hrs

Java Script

- ✓ Introduction to client side scripting
- ✓ Syntax Basics
 - a. JS Statements
 - b. JS Comments
 - c. JS Variables
 - d. JS Datatypes
- ✓ JS Operators
- ✓ JS Comparisons
- ✓ JS Conditional Statements
- ✓ JS Loops
- ✓ JS Events
- ✓ JS Objects
 - a. String Functions (Most Used)
 - b. JS Math Functions (Most Used)
 - c. JS Date Functions (Most Used)
 - d. JS Array Functions and Property (Most Used)
- ✓ JS User Defined Functions
- ✓ JavaScript Implementations
 - a. Implementing a Simple Calculator Using JavaScript
 - b. JS Validations using Object Functions
 - c. S Validations using Regular Expressions
- ✓ JS Document Object Model
 - a. Introduction
 - b. DOM HTML
 - c. DOM CSS
 - d. DOM Events
- ✓ JS Browser Object Model
 - a. JS Cookies
 - b. JS Window
 - c. JS Location
 - d. JS Popups
 - e. JS Time



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Prerequisite:-

HTML is must.

Duration:- 20 hrs

AJAX (Pre-Requisite: ServerEnd Technology)

1. Introduction
2. XMLHttpRequest Object
3. Creating a request object
4. Sending a request to server
5. Receiving a response from the server
6. readyState and Status of a request

Prerequisite:-

HTML, JS, JQuery is must.

Duration:- 10 hrs

jQuery (Javascript Library)

1. Introduction and Installation
2. Syntax
3. jQuery Selectors
4. jQuery Events
5. jQuery Effects
 - i. jQuery Hide and Show Effect
 - ii. jQuery Fade Effect
 - iii. jQuery Slide Effect
 - iv. jQuery Animate



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6. jQuery Callbacks
7. jQuery and HTML
 - i. jQuery Get
 - ii. jQuery Set
 - iii. jQuery Add
 - iv. jQuery Remove
 - v. jQuery css
 - vi. jQuery Width
 - vii. jQuery Height
8. jQuery and AJAX (Pre-Requisite: ServerEnd Technology)
 - i. AJAX Function
9. jQuery UI :
 - i. Implementing Accordion
 - ii. Implementing Datepicker
 - iii. Implementing Slider
 - iv. Implementing Progressbar
 - v. Implementing Tabs

Prerequisite:-

HTML, JS is must.

Duration:- 20 hrs

JavaScript fundamentals

Scope & Function Context
Closures
this keyword
Object-Oriented in JavaScript
Async and Parallel in JavaScript
JavaScript Design Pattern

What are Web Applications?

1. The Challenge with Web Apps (SPA)



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2. SPA or Web App's?
3. To bind or not to bind? this is the question
4. MVC or MVVM Frameworks
5. Why AngularJS?

AngularJS Building Blocks for Building SPA

1. Template & live data binding (Directives & \$scope)
2. Model, View & Controller (MVC)
3. Dependency Injection (AngularJS services)
4. Modules
5. LAB : TV Show SPA

Forms in AngularJS

1. ng-model directive
2. ngModelController & FormController
3. Custom Validation
4. Input directive

AngularJS Filters

1. Filter Syntax
2. AngularJS Filters
3. Custom filters

Communication

1. \$.Ajax vs. \$http
2. \$resource
3. Promises (\$q) vs. Callbacks
4. Offline / Online
5. LAB: Full TV Show Web App

AngularJS Internal

1. AngularJS Startup Process
2. AngularJS Runtime



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3. Scope API (\$id, \$watch & \$apply)
4. Scope Communication
5. Template Services:
6. Injector Service
7. Modules
8. Caching
9. \$provide service
10. Routing

Custom Directive

1. Template
2. Scope
3. Compile function
4. Link function
5. Controller
6. Transclude
7. Animation
8. Tips & tricks

Routing and Navigation

1. \$location service
2. ng-view directive
3. \$route service and route object
4. Navigation flow
5. Routing broadcasted events
6. Resolve option and promise
7. Cancelling route changes

AngularJS Testing

1. Unit Testing (Jasmine.js)
2. AngularJS Mock API's (ngMock)
3. Unit Testing Tools
4. E2E Testing
5. ngMockE2E - \$httpBackend
6. Protractor Tool



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AngularJS Animation

1. CSS3-enabled Animations
2. Directive That Support Animation
3. JavaScript-enabled Animations
4. Using Animations in your own directives

AngularJS Tips & Tricks

1. Optimization & Performance
2. Debugging
3. Localization
4. Mobile
5. AngularJS External Module

Prerequisite:-

HTML, JS, JQuery is must.

Duration:- 45 hrs