

Frontend Development	
<p>Introduction to HTML, DHTML, JavaScript etc. Introduction to Web Application Intranet / internet Server and client Web page Installation and configuring Server i.e. Apache, XAMPP</p> <p>Module 1: HTML</p> <p>HTML Overview Structure of HTML Program Formatting Text Creating List Creating Link Adding Image and other page elements Creating Tables Creating Frame Designing Form</p> <p>Module 2: CSS3</p> <p>Introduction to CSS3 Selectors Box Model CSS3 Borders Working with border-radius Working with box-shadow Working with border-image CSS3 Backgrounds Background-size Background-origin CSS3 Gradients Linear Gradients Radial Gradients CSS3 Text Effects Text-shadow Word-wrap CSS3 Web Fonts Creating custom fonts Font Descriptors CSS3 2D Transforms Working with translate Working with rotate Working with scale Working with skew Working with matrix CSS3 3D Transforms Working with rotateX Working with rotateY CSS3 Transitions And Animations Working with Animations Working with Transitions</p> <p>Module 3: Dreamweaver</p> <p>The Dreamweaver interface. Creating HTML documents. Adding content to Web pages. Adding structure tags to content. Using CSS to style content. Working with links and anchor tags. Rollovers and interactivity, including javascript rollovers.</p>	<p>Module 4: JavaScript</p> <p>Introduction to Javascript What is JavaScript? What Is AJAX?</p> <p>Developer Essentials The development workflow Selecting the right tools for the job Just enough HTML and CSS Understanding objects Understanding variables Making comparisons Understanding events</p> <p>Starting to Code Writing your first script Internal vs. external scripts Using comments in scripts Using the NoScript tag in HTML</p> <p>Interacting with Users Creating alert dialogs Understanding conditional statements Getting confirmations from users Creating prompts for users Understanding functions Making links smarter Using switch/case statements Handling errors</p> <p>JavaScript Language Essentials Getting started Creating loops Passing values to functions Detecting objects Reading arrays Returning values from functions Writing arrays Building do and while loops Re-using functions</p> <p>Creating Rollovers and More Creating a basic image rollover How to write a better rollover Creating a three-state rollover Making rollovers accessible and 508 compliant Making disjointed rollovers Creating slideshows Displaying random images</p> <p>Building Smarter Forms Getting started Creating jump menus Creating dynamic menus Requiring fields Cross-checking fields Displaying more informative errors Verifying radio button selections Setting one field with another field Verifying email addresses</p>

Handling Events

Responding to window events
Responding to mouse movements
Responding to mouse clicks
Responding to onBlur form events
Responding to onFocus form events
Responding to keyboard events

Working with Cookies

The DOM, Nodes, and Objects
Working with Dates and Times
Real-World Applications of JavaScript

Module 5: JQuery

What is jQuery?
Structure of jQuery
Using jQuery and including .js file to HTML
Type of Selectors
Handling Events with jQuery
Selectors Recap
Element and ID Selectors
jQuery DOM Traversal
jQuery DOM Manipulation
jQuery Effects
Understanding Forms
Adding Smarts to Your Forms
Form Validation

Module 6- Bootstrap

BS Introduction
BS Get Started
BS Grid Basic
BS Typography
BS Tables
BS Images
BS Jumbotron
BS Wells
BS Alerts
BS Buttons
BS Button Groups
BS Glyphicons
BS Badges/Labels
BS Progress Bars
BS Pagination
BS Pager
BS List Groups
BS Panels
BS Dropdowns
BS Collapse
BS Tabs/Pills
BS Navbar
BS Forms
BS Inputs
BS Inputs 2
BS Input Sizing
BS Media Objects
BS Carousel
BS Modal
BS Tooltip
BS Popover

BS Scrollspy
BS Affix
Mouse and Keyboard Events Directives

Controllers

Understanding Controllers
Programming Controllers & \$scope object
Adding Behavior to a Scope Object
Passing Parameters to the Methods
Having Array as members in Controller Scope.
Nested Controllers and Scope Inheritance.
Multiple Controllers and their scopes

Filters

Built-In Filters
Uppercase and Lowercase Filters
Currency and Number Formatting Filters
OrderBy Filter
Creating Custom Filter

Forms

Using Simple Form
Working with Select and Options
Input Validations Using CSS classes
Form Events
Custom Model update triggers
Custom Validations

Modules

Why Module? Loading and Dependencies Recommended
Setup of Application
Creation vs Retrieval.

Services

Understanding Services
Developing Creating Services
Using a Service
Injecting Dependencies in a Service

Module 7- AJAX

Ajax Basics

What is Ajax?
Ajax Rich Clients in the Real World
Ajax Advantages and Disadvantages
The Purpose of Ajax
The Traditional Web Application
An Ajax Web Application
Alternatives to Ajax

Ajax Components

The XMLHttpRequest Object
Handling the Response
Ajax Events
The Callback Function

DOM

Document Object Model Overview
DOM level 0
DOM level 1
DOM level 2

Passing Data

XML and Ajax
XML, DOM and Javascript
Dynamic Tables
JSON

<p>Server Side Code The Role of the Server Working with the Server Side Coding the Server Side Ajax Applications Login Form Quick Lookup Form Preloaded Data Module 8- AngularJS Introduction to AngularJS MVC Architecture Conceptual Overview Setting up the Environment First Application Understanding attributes Expressions and Data Biding Number and String Expressions Object Binding and Expressions Working with Arrays Forgiving Behavior Understanding Data binding Working with Directives Conditional Directives Styles Directives Mouse and Keyboard Events Directives Controllers Understanding Controllers Programming Controllers & \$scope object Adding Behavior to a Scope Object Passing Parameters to the Methods Having Array as members in Controller Scope. Nested Controllers and Scope Inheritance. Multiple Controllers and their scopes Filters Built-In Filters Uppercase and Lowercase Filters Currency and Number Formatting Filters OrderBy Filter Filter Filter Creating Custom Filter Forms Using Simple Form Working with Select and Options Input Validations Using CSS classes Form Events Custom Model update triggers Custom Validations Modules Why Module? Module Loading and Dependencies Recommended Setup of Application Creation vs Retrieval. Services Understanding Services Developing Creating Services Using a Service Injecting Dependencies in a Service</p>	<p>Ajax in AngularJS \$http Service \$q Service Ajax Impl using \$http and \$q Service Module 9- NodeJS Introduction to Javascript event driven programming Introduction to Node event -driven programming MAKING A WEB SERVER Webserver basis Handling incoming request in Node JS Serving static files / pages Content caching Streaming and optimization Handling filesystem WORKING WITH DATABASES (Prefered MONGODB over MYSQL) Writing to a CSV File in Database CRUD using MONGODB Module 10- ReactJS React JS Introduction Advantages of React JS Work flow of React JS Scope of React JS REACT JS ENVIRONMENT SETUPS Node setup How to use NPM? How to create package.json and purpose of it? ES6 Introduction and features. Webpack Overview Best IDE for React JS and How to write optimized code in React JS?</p> <p>Topics to be covered:</p> <ul style="list-style-type: none"> • Introduction to Web Development • HTML 3 • CSS3 6 • JavaScript 15 • Dream viewer 3 • JQuery 3 • Bootstrap 5 • AngularJS 10 • NodeJS 10 • ReactJS 5
--	---