

Syllabus of Front End Development

1. HTML 4 and HTML 5

- ◆ A. Introduction of HTML
- ◆ B. Tag, Elements and Attributes
- ◆ C. Basics syntax
- ◆ D. Table
- ◆ E. List
- ◆ F. Forms
- ◆ G. Structure of HTML4 and HTML5
- ◆ H. Semantic and non-semantic tags
- ◆ I. HTML 5 Features
- ◆ J. New Input type
- ◆ K. Forms Attribute
- ◆ L. SVG
- ◆ M. Canvas
- ◆ N. Audio, Video Tag

2. CSS (Cascading Style Sheet)

- ◆ A. Attributes (ID, Class, Style, Title)
- ◆ B. CSS Types (Inline, Internal, External)
- ◆ C. Box-model
- ◆ D. Display Property (Block, Inline, None)
- ◆ E. Visibility-Hidden
- ◆ F. Position Property(Static, Relative, Absolute, Fixed)
- ◆ G. Z-index Property
- ◆ H. Combinators (Descendant Selector, Child Selector, Adjacent Sibling Selector,
General Sibling Selector)
- ◆ I. CSS Pseudo-classes (Link, Visited, Hover, Active)
- ◆ J. CSS Pseudo-elements (First Line, First Letter, Before, After ,Selection)

- ◆ K. Static Web Page
- ◆ L. Viewport Meta tag

3. CSS 3

- ◆ A. Background, Multiple Backgrounds
- ◆ B. Font Related Features (online fonts)
- ◆ C. Text-Effect and Box-Effect
- ◆ D. Gradients-Linear and Radial
- ◆ E. Transition
- ◆ F. Transformation
- ◆ G. Animation
- ◆ H. Media Queries

4. Bootstrap

- ◆ A. Introduction of Bootstrap (Responsive)
- ◆ B. Typography
- ◆ C. Tables
- ◆ D. Images, Buttons
- ◆ E. Grid Structure-Type of columns
- ◆ F. Forms
- ◆ G. Jumbotron,
- ◆ H. well,
- ◆ I. Panel
- ◆ J. Navbar, Nav Tab
- ◆ K. Carousel
- ◆ L. Responsive Web Page

5. JavaScript

- ◆ A. Introduction of JavaScript
- ◆ B. Use of JavaScript
- ◆ C. Variables
- ◆ D. Keywords
- ◆ E. Data Type (Primitive, non-primitive)
- ◆ F. JS Conditions (if, if-else)
- ◆ G. Conditional operators & logical operators
- ◆ H. Loops (for, while, do-while)

- ◆ I. Switch Case
- ◆ J. Functions
- ◆ K. SetTimeout and set Interval Function
- ◆ L. HTML DOM
- ◆ M. Use the document object to access and manipulate HTML
- ◆ N. Changing HTML Elements
- ◆ O. Adding and Deleting Elements
- ◆ P. Array
- ◆ Q. Objects
- ◆ R. How to access Objects (Dot Notation, bracket Notation)
- ◆ S. Object Creation (Empty Object, Literal Way, Constructor Way)
- ◆ T. Prototype
- ◆ U. Validations
- ◆ V. Events

6. jQuery

- ◆ 1. Introduction
 - ◆ A. JQuery Library
 - ◆ B. First JQuery Example
 - ◆ C. The Document Ready Function
 - ◆ D. How to escape a special character
- ◆ 2. Selectors
 - ◆ A. Basic selectors
 - ◆ B. Precise Selectors
 - ◆ C. Combination of Selectors
 - ◆ D. Hierarchy Selectors
 - ◆ E. Selection Index Filters
 - ◆ F. Visibility Filters
 - ◆ G. Forms Selectors
 - ◆ H. Forms Filters
- ◆ 3. Find Dropdown Selected Item
- ◆ 4. Document Traversal
 - ◆ A. Getting a specific DOM element
- ◆ 5. Event
 - ◆ A. Events Helpers

- ◆ B. Attach Event
- ◆ C. Detaching Events
- ◆ D. Events Triggering
- ◆ 6. HTML Manipulation
- ◆ 7. AJAX with jQuery
- ◆ 8. Use and Benefits JSON
- ◆ 9. Overview of AngularJS
- ◆ 10. Project:
- ◆ Static Web App development from scratch and Hosting

