HTML 5

Duration: 2 days

Prerequisites: Participants should have experience on HTML4, XML and JavaScript.

Objectives:

* Learn the major benefits of HTML5
* Write applications using HTML5 and JavaScript(jQuery)
* Build applications with rich and interactive UI
* Solve complex problems using HTML which otherwise was difficult with HTML4

Training Methodology:

The training will be having 40% theory and the rest would be hands-on.

* **Introduction to HTML5**
  + Evolution of HTM 5
  + The Specification
  + Advantages of using HTML 5
  + Browsers supported
* **Structure Of A Web Page**
  + HTML5 DOCTYPE
  + Page Encoding
  + HTML5 Markup
    - New And Updated Elements
    - Structural Elements
    - New Attributes
    - Deprecated Elements And Attributes
  + Browser Support
* **Forms**
  + Current Solutions
  + New Input Types
  + New Attributes
  + Form Validation
  + Browser Support
  + Fallback code
  + Device development
* **Data Storage**
  + Problems With The Existing Cookie-based Model
  + New Storage Options
    - Web Storage
    - Web SQL Storage
    - Indexed Databases
  + File API’s
    - FileReader
    - FileSystem
  + Browser Support
  + Fallback code
  + Device development
* **HTML5 Geolocation**
  + Introduction To Geolocation
  + Two Main Methods
  + The Position Object
  + Handling Errors
  + Device development
* **HTML5 Web Workers**
  + The Current JavaScript Execution Model
  + Introduction To Web Workers
  + Usage Of Web Workers
    - Shared Workers
  + Communication APIs
  + Handling Errors
  + Fallback code
  + Device development
* **Ajax**
  + XMLHttpRequest
  + Making Ajax calls
* **HTML5 Web Sockets**
  + Overview Of Web Communication Options
  + The History (Comet)
  + Overview Of Web Sockets API And Protocol
  + Advantages Of Web Sockets
  + Browser Support
* **CSS 3.0**
  + Introduction
  + CSS3 Modules
  + Selectors
  + Backgrounds and Borders
  + Text Effects
  + 2D/3D Transformations
  + Animations
  + Multiple Column Layout
  + Media Queries
  + Animations
  + Transforms
  + Transitions