Front-End Web UI Frameworks and Tools

This course will give you an overview of client-side web frameworks, in particular Bootstrap. You will learn about grids and responsive design, Bootstrap CSS and JavaScript components.

At the end of this course, you will be able to:  
  
- Set up, design and style a web page using Bootstrap and its components  
- Create a responsive web page design  
- Make use of web tools to setup and manage web sites

**Front-end Web UI Frameworks Overview: Bootstrap**

This module gives you a quick introduction to full-stack web development and the outline of the course.

1. Basics of Bootstrap
2. Setting up a web project using Bootstrap
3. Responsive design
4. Bootstrap grid system
5. Navigation and Navigation bar.

**Bootstrap CSS Components**

This module concentrates on Bootstrap's components that are designed using pure CSS classes.

1. Buttons
2. Forms
3. Tables
4. Panels
5. Wells
6. Images and Media
7. Labels
8. Badges
9. Alerts
10. Progress bars

**Bootstrap Javascript Components**

This module concentrates on Bootstrap's JavaScript based components.

1. Tabs
2. Pills and Tabbed Navigation
3. Collapse
4. Accordion
5. Scrollspy
6. Affix
7. Tooltips
8. Popovers
9. Modals
10. Carousel

Front-End JavaScript Frameworks AngularJS

This course will give you an overview of client-side JavaScript framework, in particular AngularJs. You will learn about Scope and Data Binding, Directives, Services and AngularJS components.

1. AngularJS Basic Introduction
2. Controllers And Use Of Controllers
3. Understanding Scope Controller View
4. Scope Inheritance
5. RootScope
6. One-Way, Two-Way, One-Time Data Binding
7. Creating Custom Services
8. Creating Factory
9. ng-if, ng-repeat, ng-show, ng-hide
10. Bootstrap CSS framework Integration
11. Filters
12. Understanding Custom Directives
13. Compile and Link
14. Dom Manipulation And Event Handling
15. Understanding Watcher
    * 1. Watch,
      2. WatchGroup,
      3. WatchCollection,
      4. ng-change
16. Understanding Digest Cycle –
    * 1. digest phase,
      2. digest process
      3. apply
      4. digest
17. $eval, $parse, $interpolate
18. Shared Scope in Directives
19. Inherited (Child) Scope in Directives & Controllers
20. Isolated Scope in Directives
21. Transclusion
    * 1. Clone Linking Function in Transclusion
      2. Transclusion Scope and Custom Data
22. Understanding Routing
    * 1. Routing Parameters
      2. $route Service and AJAX content
      3. Resolving Routes in ngRoute
23. Understanding UI-Router
24. UI-Router - Working with Parameters
25. UI-Router - Understanding "Resolve"
26. Working With State Service

Back-End Server Side Technologies

**MVC.Net**

1. Model View Controller, Library, Nuget Package Manager
2. Create MVC.Net Application
3. Create Asp.Net WebApi

**Nodejs**

1. NPM - Node Package Manager
2. How to install Node.js and Node Package Manager (npm)
3. Ajax Using Asp.Net Web API & Node.JS
4. Develop Complete REST service app using pure Node.js
5. GET,
6. POST,
7. PUT,
8. DELETE

**Web tools**

a) Task Runner:

1. Grunt
2. Gulp

b) Bower

c) Less