HTML5 RICH INTERNET APPLICATION (RIA) WEB DEVELOPMENT WITH NODEJS, ANGULARJS & MORE (TTC4679)

Course Code: 2168

Learn how to develop modern RIAs using HTML5, NodeJS, REST, MDE, AngularJS, testing and more.

Quickly learn to master and use the latest skills and best practices to develop rich, interactive, and exciting modern web applications! This comprehensive course is a jam-packed, fast paced, lab intensive course where students will thoroughly explore the current state of the art for developing RIAs using HTML5, modern JavaScript, and CSS3 in a multi-platform REST context.

The latest, most cutting-edge HTML5 applications today include the current evolution of natively-compiled JavaScript, the rich JavaScript HTML5 APIs, and CSS3. This powerful integration offers us many more capabilities as well as the ability to make our rich internet applications more powerful, faster, and utilize less overall server resources at greater scalability than ever before.

What You’ll Learn

• Continuous Integration (CI)
• Test-Driven Development (TDD)
• Model-Driven Engineering (MDE)
• Cross-platform architecture and development to support iOS, Android, and other rich client environments.

Who Needs to Attend

• Web developers
• Web designers
• Enterprise system architects (Web-oriented)

Prerequisites

• Basic web development experience with HTML5, CSS3 and JavaScript
• Experience equivalent to the topics in the following courses, or should attend these as a pre-requisite:
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Virtual Classroom Live Outline

1. HTML5, JS, and CSS3 Review
   - The Current State of HTML5 and JavaScript
   - Best Practices

2. Responsive Design
   - Graceful Fallback Techniques

3. Overview of jQuery and Dojo
   - jQuery, jQueryUI, jQuery Mobile,
   - Dojo, Dojo Mobile
   - Asynchronous Module Definitions (AMD)

4. AngularJS
   - MVC, MVVM, MVP, and MVW Design Patterns
   - Data Binding
   - Bidirectional Data Binding
   - AngularJS, jQuery/Backbone/Thorax, KnockoutJS, and Others Compared

5. NodeJS
   - NodeJS Overview
   - Installing and Running NodeJS
   - Server applications with NodeJS
   - NodeJS in Testing

6. CSS3 with LESS
   - CSS3
• Dynamic CSS with LESS
• LESS and NodeJS on the Server
• Responsive Design with LESS

7. Test-Driven Development with HTML5
• TDD Theory and Application
• HTML5 Unit Testing
• Test Automation and Parameterization
• View Testing with Selenium

8. REST Applications
• REST Principles
• Example REST Services with JAX-RS 2.0
• Example REST Services with .NET

9. Service-Oriented Architectures and the Cloud
• SOA and the Cloud Overview
• HTML5 Considerations

10. Continuous Integration (CI)
• CI with Jenkins
• Continuous Test-Driven Development (cTDD) in CI

11. Model-Driven Engineering (MDE) and Cross-Platform Development Overview
• MDE Theory and Application
• Tools and Techniques
• Supporting HTML5
• Adding Support for iOS and Android
• Integration with CI and cTDD
• MDE in an Agile Context (Scrum/XP/RUP)

Virtual Classroom Live Labs

This lab-intensive course provides multiple practical labs for students to explore throughout the course. This workshop is about 50% hands-on lab and 50% lecture. Throughout the course students will be led through a series of progressively advanced topics, where each topic consists of lecture, group discussion, comprehensive hands-on lab exercises, and lab review. Multiple detailed lab exercises are laced throughout the course, designed to reinforce fundamental skills and concepts learned in the lessons. At the end of each lesson, students will be tested with a set of review questions to ensure that he/she has fully understands that topic and can put their newly acquired skills to work, right after class ends.
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PRIVATE GROUP TRAINING 4 days

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

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