

Developing Web Applications Using Node.js

Course #: NJS-100

Duration: 2 days

Prerequisites

Introduction to JavaScript and Advanced JavaScript Programming

Details

Developing Web Applications Using NodeJS is a two-day instructor-led course that teaches students how to build server-side web applications using open source JavaScript frameworks and powered by NodeJS.

Students will learn how to create and test modern web applications and APIs using open-source JavaScript modules, NodeJS, and MongoDB.

Software Needed

Text Editor

Outline

Developing Web Applications Using Node.js

- **Setting up Node.js and Other Essentials**
 - Installing Node.js and NPM
 - Launching Node.js Scripts
 - Node.js Basics and Syntax
 - Node.js Core Modules
 - Handy Node.js Utilities
- **Node Package Manager**
 - Installing a Package
 - Global Packages
 - Updating Packages
 - Creating Packages
- **Using Express.js to Create Node.js Web Apps**
 - Installing Express.js
 - Express.js Scaffolding
 - Setting Up Folders and Configuration
- **TDD and BDD**
 - Installing and Understanding Mocha
 - TDD with Assert
 - BDD with Expect.js
- **Persistence with MongoDB and Mongoskin**

- Installing and Running MongoDB
- Data Manipulation from the Mongo Console
- Native MongoDB Driver for Node.js
- Main Mongoose Methods
- **Boosting Data with Mongoose ORM Library**
 - Installing Mongoose
 - Mongoose Schemas
 - Mongoose Models
 - Relationships and Joins
 - Express.js + Mongoose = True MVC
- **Using Sessions and OAuth in Node.js Apps**
 - Authorization with Express.js
 - Token-Based Authentication
 - Session-Based Authentication
 - Node.js OAuth
- **Building Node.js REST API Servers**
 - RESTful API Basics
 - Test Coverage with Mocha and Superagent
 - REST API Server Implementation with Express and Mongoose