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Developing Web Applications Using Node.js

Course #: NJS-100 **Duration:** 2 days

Prerequisites

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 Mongoskin 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