Full Stack Development with NodeJS

Description:

NodeJS is the premiere open-source web development platform. Now that JavaSript has made the jump to the server side, we can harness it's power to build robust server apps component by component. This bootcamp gets into the building of APIs that can be consumed with other compatible applications based on JavaScript like React.

As we build the APIs you get to learn about all the technologies that go into making up a server application that provides APIs for other application to consume. No server will be complete without a database, so we dive into MongoDB for the backend storage.

Target Audience:

Anyone with less than 2 years knowledge working with HTML, CSS and JavaScript.

Course Outline for the four days:

Session 1: NodeJS, ExpressJS and MongoDB environment

Session 2: JavaScript, HTML and CSS

Session 3: Deploying the server app, Tokens, Templates and Logs

Session 4: Server side validation, more logging and Testing

Detailed Outline

Session 1: NodeJS, ExpressJS and MongoDB

- NodeJS
    - Packages
    - Express
    - Routing
    - Decomposing the app
- Routes and Controllers

- MongoDB
    - Create a database
    - Create collections
    - Add Mongoose
    - Build a Schema

Session 2: JavaScript, HTML and CSS

- JavaScript enhanced HTML forms
- Form validation
- Connect to the APIs
- Consuming and displaying data from the APIs
- Async/Await

Session 3: Deploying the server app and consuming the APIs with HTML and jQuery

- Folder setup for application
- HTML for consuming the APIs
- Adding tokens
- Working with Middleware
- Using Templates
- Logging part 1

Session 4: Server side validation, more logging and Testing

- Installing and Configuring Winston
- Implementing a logger method
- Testing the logger method
- Server side validation
- Testing with Mocha and Chai