

MongoDB, Express, Angular and Node.js Fundamentals

Category: Software Development & Programming | **Vendor:** Logical Operations

Duration: 16.00 hours (2 days)

13.0 CPD Hours

Rating: ★ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

MongoDB, Express, Angular and Node.js Fundamentals begins by demystifying the MEAN architecture. You will review the features of the JavaScript technologies, frameworks, or libraries that make up a MEAN stack. You will also understand how to develop a RESTful API using Node.js, Express.js, and MongoDB Atlas. This course will enable you to discover how to build a blogging application using the MEAN stack. Next, you will learn about authentication using MEAN, and explore the features of Angular, such as pipes, reactive forms, modules and optimizing apps, animations and unit testing, and much more. By the end of the course, you will have all of the knowledge you need to become a pro at developing efficient web applications using JavaScript technologies.

About This Course

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Who Should Attend

This course is ideal for beginners and intermediate frontend developers who want to become full-stack developers. You will need some prior working knowledge of JavaScript and MongoDB as we skim over its basics and get straight to work.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

At the end of this day, students should be able to:

Understand the MEAN architecture

Create RESTful APIs to complete CRUD tasks

Build a blogging application with basic features

Describe best practices to secure node applications

Implement authentication and authorization

Create simple animations using Angular

Perform unit testing on Angular applications

Detailed Course Outline

Introduction to the MEAN stack

- MEAN Architecture Demystification
- Getting Started with Node
- Activity 1: Creating an HTTP Server for a Blogging Application Understanding Callbacks, Event loop and EventEmitters in Node
- Understanding Buffers, Streams and Filesystem in Node
- Activity 2: Streaming Data to a File

Developing RESTful APIs to perform CRUD operations

- Getting Started with RESTful APIs
- Getting started with MongoDB Atlas
- Activity 3: Connecting the Node Application with MongoDB Atlas
- Getting Started with Express
- Activity 4: Creating Express API Route and Controller
- Activity 5: Testing Fully Functional RESTful API

Beginning Frontend Development with Angular CLI

- Getting Started with Angular CLI
- Using Components, Directives, Services, and Making HTTP Requests in Angular
- Activity 6: Designing the Frontend and Components for the Blogging Application
- Activity 7: Writing Services and Making HTTP Request Calls to an API
- Understanding Angular Forms and Routing
- Activity 8: Creating a Form Application Using the Reactive/Model-Driven Method
- Activity 9: Creating and Validating Different Forms Using the Template and Reactive Driven Method
- Activity 10: Implementing a Router for the Blogging Application

Understanding MEAN Stack Security

- Node Security and Best Practices
- Node Application Authentication with JSON Web Token (JWT)
- Activity 11: Securing the RESTful API
- Node Application Authentication with Passport
- Activity 12: Creating a Login Page to Allow Authentication with Twitter Using Passport Strategies

Angular Declarables, Bootstrapping, and Modularity

- Using Inbuilt Pipes, Custom Pipes, Custom Directives, and Observables
- Activity 13: Communicating Between Two Components Using Observable Angular
- Bootstrapping and Modularity
- Activity 14: Creating a Lazy Loaded Application

Testing and Optimizing Angular Applications

- Angular Animations and Latest Angular Features
- Activity 15: Animating the Route Transition Between the Blog Post Page and View Post Page of the Blogging Application
- Optimizing Angular Applications
- Testing Angular Applications
- Activity 16: Performing Unit Testing on the App Root Component and Blog-Post Component
- Overview on the new features in Angular

Additional Course Details

Nexus Humans MongoDB, Express, Angular and Node.js Fundamentals training program is a workshop that presents an invigorating mix of sessions, lessons, and masterclasses meticulously crafted to propel your learning expedition forward.

This immersive bootcamp-style experience boasts interactive lectures, hands-on labs, and collaborative hackathons, all strategically designed to fortify fundamental concepts.

Guided by seasoned coaches, each session offers priceless insights and practical skills crucial for honing your expertise. Whether you're stepping into the realm of professional skills or a seasoned professional, this comprehensive course ensures you're equipped with the knowledge and prowess necessary for success.

While we feel this is the best course for the MongoDB, Express, Angular and Node.js Fundamentals course and one of our Top 10 we encourage you to read the course outline to make sure it is the right content for you.

Additionally, private sessions, closed classes or dedicated events are available both live online and at our training centres in Dublin and London, as well as at your offices anywhere in the UK, Ireland or across EMEA.

Frequently Asked Questions

Q: What delivery options are available for MongoDB, Express, Angular and Node.js Fundamentals?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
 - Traditional Instructor-Led Classroom Training (ILT)
 - On-site delivery at your offices anywhere in United Kingdom
 - Private dedicated courses customized for your team
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Q: How many CPD hours does this course provide?

The 2-day MongoDB, Express, Angular and Node.js Fundamentals course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the MongoDB, Express, Angular and Node.js Fundamentals training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for MongoDB, Express, Angular and Node.js Fundamentals?

Yes, we provide corporate training, dedicated training, and closed classes for MongoDB, Express, Angular and Node.js Fundamentals. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: Why choose Nexus Human for MongoDB, Express, Angular and Node.js Fundamentals?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your MongoDB, Express, Angular and Node.js Fundamentals training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

Nexus Human

Professional Training & Development

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