BOARD INFINITY

COURSE 3 OF 3 · LEARNING MEAN STACK BY BUILDING REAL WORLD APPLICATION

Building a Complete MEAN Stack Application

Full course syllabus - every module, video lesson, reading and assignment, from your first Express server to a deployed full stack app.

Board Infinity
Instructor · Offered on Coursera

2	28	8	1 week
Modules	Video lessons	Assignments	At 10 hours a week

INSIDE THE COURSE

01	Designing Backend for Real-World Application	4 hours to complete
02	Creating Frontend & Connecting with Backend	6 hours to complete

Enroll on Coursera

https://www.coursera.org/learn/building-a-complete-mean-stack-application

01 ABOUT THE COURSE

From an empty folder to a deployed app.

Building a Complete MEAN Stack Application walks you through one complete, production-ready web application using MongoDB, Express, Angular and Node.js. In the first module you architect a scalable backend, build a RESTful API with Node.js and Express, and connect it to MongoDB. In the second you build a responsive Angular frontend, connect it to your API, and deploy the application to production.

Everything is delivered through short video lectures, readings and graded quizzes - 28 videos, 4 readings and 8 assignments - and the course ends with a peer-reviewed MEAN application project. It is at intermediate level and assumes basic familiarity with each MEAN technology.

WHO IT'S FOR

Developers with MEAN basics
Wanting a capstone project that ties the stack together.

Full-stack engineers
Preparing a portfolio piece to show employers.

Backend developers
Rounding out frontend and deployment skills.

Bootcamp graduates
Looking for a real MEAN project for their resume.

WHAT YOU'LL LEARN

01 **Design a scalable backend** Module 1
Design a scalable, secure backend architecture using Node.js, Express and MongoDB

02 **Develop a RESTful API** Module 1
Develop a RESTful API with authentication and authorization built in

03 **Build a connected frontend** Module 2
Build a responsive Angular frontend connected live to your backend API

04 **Deploy to production** Module 2
Apply deployment strategies to launch a complete MEAN stack project into production

02 SYLLABUS

Two modules, one full stack application.

1 week to complete at 10 hours a week. Flexible schedule - learn at your own pace.

01 Designing Backend for Real-World Application

Tooling, a Node and Express server, MongoDB Atlas and REST endpoints

4 hours
15 videos

BY THE END OF THIS MODULE YOU CAN

- ✓ Set up the project tools: code editor, Node.js, MongoDB Atlas and Postman
- ✓ Build a server-side Node.js and Express application
- ✓ Connect the backend to a MongoDB Atlas database
- ✓ Implement and register POST, GET, PUT and DELETE endpoints

CONTENTS: 15 videos (79 min) · 3 readings (55 min) · 4 assignments (120 min) · 1 plugin (15 min)

TOPICS: Setting up the Development Environment · Building a Backend for our Application · MongoDB and Node · Quick Course Check-In (plugin)

You'll leave with: a working REST API on Node.js, Express and MongoDB Atlas, tested end to end in Postman.

02 Creating Frontend & Connecting with Backend

Angular frontend, API integration and deployment

6 hours
13 videos

BY THE END OF THIS MODULE YOU CAN

- ✓ Create an Angular project with navigation and an employees page
- ✓ Build an employee interface, service and list component
- ✓ Add and edit employees through components connected to your API
- ✓ Deploy the backend, APIs and frontend - including on Netlify

CONTENTS: 13 videos (95 min) · 1 reading (10 min) · 4 assignments (105 min) · 1 peer review (120 min)

PROJECT: Building a MEAN Application (peer reviewed, 120 min)

TOPICS: Build Basic Website · Angular · Deploying the Application

You'll leave with: a complete MEAN application - Angular frontend, Node and Express API, MongoDB data - deployed to production.

03 TOOLS & SKILLS

The themes that run through the course.

MongoDB & MongoDB Atlas

Database

The document database behind your app, configured in the cloud with Atlas.

In this course: Module 1 configures Atlas and connects it to the backend.

Node.js & Express

Backend

The server and RESTful API that handle every request your app makes.

In this course: Module 1 builds POST, GET, PUT and DELETE endpoints.

Angular

Frontend

Components, services and pages that display and edit data from your API.

In this course: Module 2 builds the employee list, add and edit pages.

Postman & Netlify

Test & deploy

Testing your APIs, then deploying the backend, APIs and frontend to production.

In this course: Postman in module 1; deployment options and Netlify in module 2.

SKILLS YOU LEAVE WITH

Backend

- Node.js
- Express.js
- RESTful API design
- MongoDB

Frontend

- Angular
- User interface (UI)
- Components & services
- Connecting to APIs

Ship

- CRUD operations
- API testing with Postman
- Application deployment
- Hosting on Netlify

04 CERTIFICATE & CAREER

Finish with a shareable certificate.

Add it to LinkedIn
Add this credential to your LinkedIn profile, resume, or CV.

Share it anywhere
Share it on social media and in your performance review.

Earned, not attended
Awarded on the graded quizzes and the peer-reviewed MEAN application project.

Course 3 of 3
The final course of the Learning MEAN Stack by Building Real world Application Specialization.

ROLES THE COURSE PREPARES YOU FOR

Full Stack Developer · MEAN Stack Developer · Node.js Engineer · Angular Developer · Backend Developer · Web Application Developer



Board Infinity

Instructor · Offered on Coursera

Intermediate level · Taught in English · 7 languages available · Flexible schedule

Ready to ship your MEAN app?

Enrollment, lessons, grading and the certificate all happen on Coursera.

Enroll on Coursera

Course page:
coursera.org/learn/building-a-complete-mean-stack-application

Want a coach alongside the course?

Board Infinity 1:1 coaching is a separate, optional Board Infinity offering - it is not part of the Coursera course.
Details: https://www.boardinfinity.com/career-coaching/

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