

# FULL STACK MEAN DEVELOPER

Master's Program

Course Outline





## Course Overview:

This Full Stack MEAN Developer program provides complete knowledge of software development and testing technologies such as JavaScript, Node.js, Angular, Docker, and Protractor. You'll build an end-to-end application, test and deploy code, and store data using MongoDB.

## About the Software Development Industry:

The global software engineering market is expected to grow to approximately USD \$37.4 billion by 2022, at a CAGR of nearly 12 percent. Corporate initiatives focused on digital transformation will help drive demand for skilled software developers, which is reflected in current hiring trends and future projections. According to NASSCOM and USA Today, one million software development jobs will be added to the workforce by 2020 in India and 1.4 million jobs in the United States.

Many companies prefer to hire multi-skilled technology professionals such as automation test engineers. The average annual salary for an automation test engineer is USD \$94,270 (ZipRecruiter). Additional facts about the state of the software development industry:

- Junior developers are getting massive starting salaries compared to those of the last 20 years
- Upskilling is one of the most important priorities for developers today (Stackoverflow 2019)
- The phenomenal rise of consumer applications in both web and mobile is driven by the availability of open-source projects and libraries
- Smaller, quicker releases—which results in better productivity—are becoming crucial for software product success. Automation engineers are well-positioned to empower this trend.

## Key Features:

- Comprehensive Applied Learning program
- 270 hours of in-depth training
- 150 hours of instructor-led training



- 120 hours of self-paced learning
- 20+ in-demand tools and skills
- 10 lesson-end & 4 phase-end projects
- Choose from 4 industry-aligned capstone projects

## Top Skills and Tools covered:

- Agile
- Git
- HTML
- CSS
- JavaScript
- BootStrap
- TypeScript
- Angular
- Node.js
- HTTP
- REST API
- Express.js
- MongoDB
- Protractor
- Backbone.js
- AJAX
- GraphQL
- Docker
- Jenkins
- Grunt
- ELK Stack 6.0
- Kubernetes
- API testing with Postman

## Program Outcomes

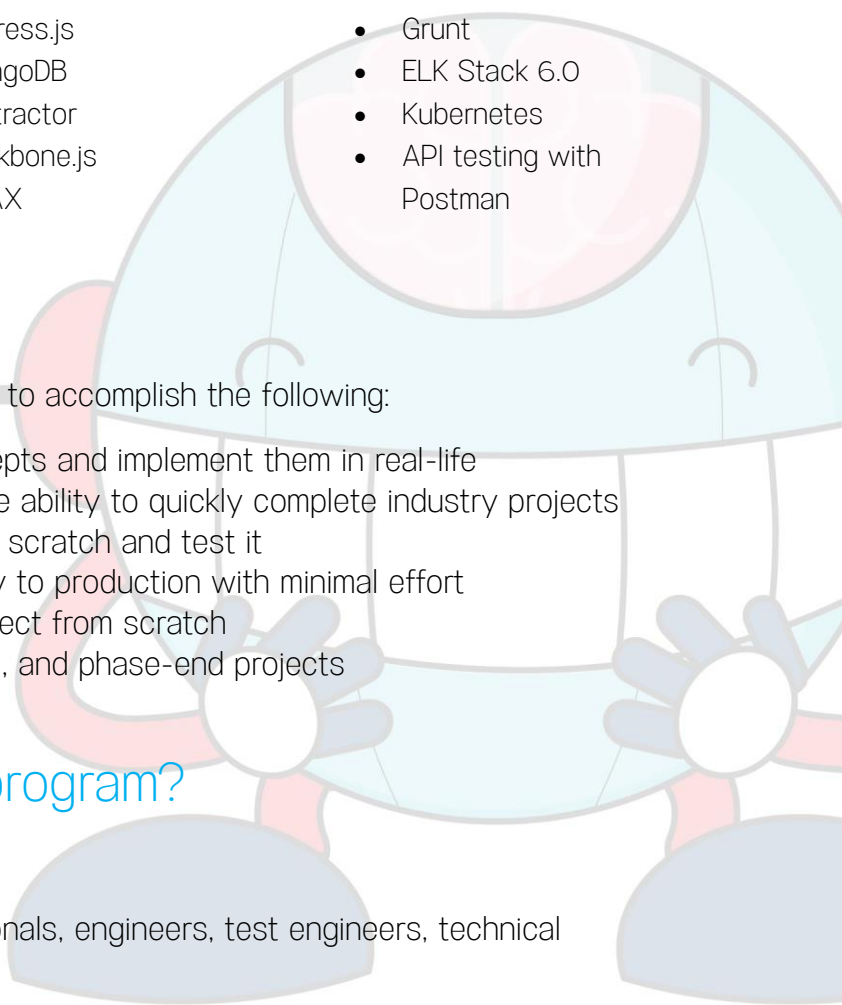
By the end of the program, you will be able to accomplish the following:

- Master software programming concepts and implement them in real-life
- Become an agile practitioner with the ability to quickly complete industry projects
- Build an end-to-end application from scratch and test it
- Test and deploy features seamlessly to production with minimal effort
- Build a running, industry-aligned project from scratch
- Complete 30+ topic-end, lesson-end, and phase-end projects

## Who should enroll in this program?

This MEAN stack program is designed for:

Freshers, software developers, IT professionals, engineers, test engineers, technical consultants, and analysts





## Learning Path:

### Get started with web development (62 hrs)

- Agile Scrum Foundation
- GIT and GitHub Training
- A front-end web developer Master Class using HTML, CSS, and JavaScript

### Create websites using Front and Back-end frameworks (59 hrs)

- An Introduction to TypeScript
- Hands-On TypeScript 3 and Angular 7 for Web Development
- Design Patterns in TypeScript
- Angular
- Learn to build Progressive Web Apps using JavaScript
- Node.js Absolute Beginners Guide - Learn Node from Scratch

### Create scalable and dynamic websites (55 hrs)

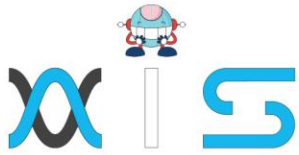
- Restful API Design with Node, Express, and MongoDB

### Test your application (52 hrs)

- API Testing with Postman
- Hands-On Full-Stack Web Development with GraphQL and React
- Docker Basics and Jenkins integration with Docker
- Develop and Deploy Modern Web Applications with Docker
- Learning ELK Stack 6.0
- Cloud Basics and Web Hosting

(★) Full Stack MEAN Developer Capstone Project





## Full Stack MEAN Developer Capstone Project

- E-commerce

Create a dynamic and responsive Java e-commerce web application using technologies such as Angular, React, MongoDB, and Docker.

- Food Delivery

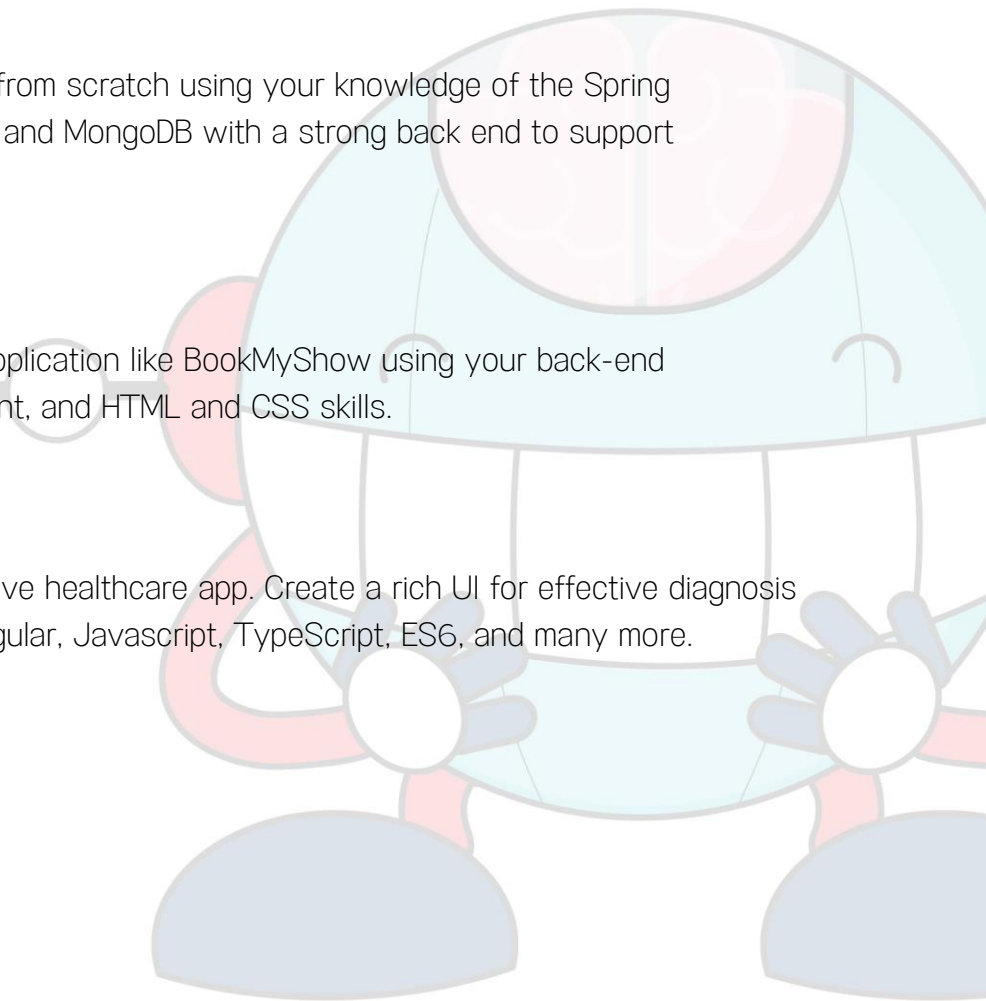
Build a food-delivery app from scratch using your knowledge of the Spring framework, web services, and MongoDB with a strong back end to support operations.

- Entertainment

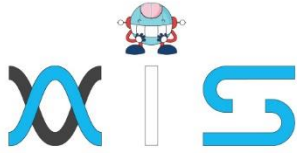
Create an entertainment application like BookMyShow using your back-end knowledge, API development, and HTML and CSS skills.

- Healthcare

Build a dynamic and effective healthcare app. Create a rich UI for effective diagnosis and health advice with Angular, Javascript, TypeScript, ES6, and many more.







## AIS

With the rising demand in scalable technology, AIS provides tailored goal-setting based on your organization's needs and expectations. With products geared towards the growing needs of your organization's customers and employees, AIS has innovative and value-driven solutions.

### Learning Partners



#### SAS Management, Inc.

SAS Management, Inc. has been a leader in the training, certification and consulting services industry in the Philippines. With offices in Makati, Ortigas and Cebu, Philippines, the company has been the top training and consulting company for over 9 years. In its years of existence, it has provided certificates to over 100,000 professionals including 10,000 participants in the 160+ courses that have been conducted just during the 2020-2021 pandemic alone. The most sought-after courses being offered are ITIL, Project Management Professional (PMP)®, COBIT 5, Six Sigma Yellow Belt, Six Sigma Green Belt, PRINCE2, and organizational skills, among others.



#### Simplilearn

Simplilearn, based in California and India, is the world's #1 online bootcamp and one of the world's the leading certification and training providers. Simplilearn trained over 2,000,000 professionals with 2,000+ trainers and provides over 400 different courses.

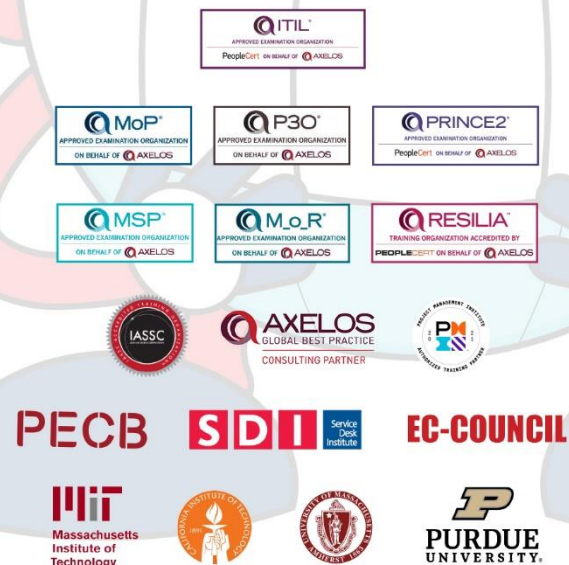
### Technology Partner

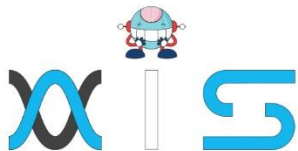


#### Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

### Partners & Affiliates





*The program presented, as well as a wide range of programs are products of the partnership of AIS, SAS Management, Inc., and Simplilearn. With a common goal of providing the best practice of facilitating learning with an array of choices available in the online platform in this time of digitization.*

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