



DESARROLLO WEB PROFESIONAL FULLSTACK (MEAN STACK) CON JAVASCRIPT

TEMARIO

REQUISITOS MINIMOS

Buen conocimiento de HTML5, CSS3 y JavaScript y nociones de programación orientada a objetos

MODULO I - INTRODUCTION

- Application Architecture
- NoSQL Databases and MongoDB
- Back-end web development and NodeJS
- Front-end web development and Angular
- Web server and Express

MODULO II - SCHEMALESS DATABASE DEVELOPMENT WITH MONGODB

- Introduction and Design Goals
- Mongo Setup
- Mongo Shell and JSON
- Schema Design Principles
- CRUD and Query/Update Operators
- Indexes and Performance
- Aggregation and Expressions

MODULO III: BACK-END WEB DEVELOPMENT WITH NODEJS

- Introduction
- Dependencies and npm
- MongoDB NodeJS Driver
- require() Function
- Connecting to MongoDB with NodeJS
- CRUD Requests from NodeJS
- Concurrency and Event Loop



MODULO IV: WEB SERVER DEVELOPMENT WITH EXPRESS

- Introduction
- Express Setup
- Creating web server
- Adding routes
- Building REST server

MODULO V: FRONT-END WEB DEVELOPMENT WITH ANGULAR

- Introduction
- TypeScript and Transpiling
- Programs and Modules
- Component Annotation, Templates and Classes
- Data Binding: one-way and two-ways
- Event Binding
- Built-in Directives
- Input and Output Annotations
- Dependency Injection
- Class, Factory and Value Providers
- Injectors
- Routes and Navigation
- Nested Routing
- Imperative Navigation
- Asynchronous Data Streams
- Observers, Observables, Subscriptions and Operators
- Http Service and get(), put(), post() and delete() requests
- Forms and Validations
- Built-in and Custom Pipes
- Change Detection and Zone Usage
- Using Bootstrap and Material Design with Angular

MODULO VI: FINAL PROJECT