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MEVN Training

3 days (21 hours)

Presentation

MEVN is the latest technical stack in the web development sector. MEVN training will give you a competitive edge through the creation of more powerful and dynamic web applications. What's more, its software components can be used to efficiently design front-end and back-end developments.

The acronym MEVN comes from the combination of 4 tools: MongoDB, Express, Vue.js and Node.js.

Vue.js is a javascript web framework that's getting a lot of attention for its elegance and simplicity. In 2020, Vue.js ranked 3rd on Stack Overflow's list of the most popular web frameworks, and its use represents no less than 17.8% of all web frameworks, all languages combined.

There's no need to describe Node.js, a javascript runtime that has proven its worth by structuring the majority of our products.

Express is a micro-framework for Node.js that greatly optimizes its use.

MongoDB is a document-oriented NoSQL database whose main advantage is that it is designed to handle large volumes of data while remaining easy to use. By integrating the Mongoose ODM with Node.js, you'll discover the full power and speed of this database. All the more reason why Google, eBay and Coinbase are now using MongoDB.

Compiling these 4 tools gives you one of the best ways of developing modern, fast web applications in javascript.

We're still teaching the latest versions: [Vue.js v2.6.11](#), [MongoDB 4.4](#), [Node.js 16](#) and [Express 4.17.1](#).

Objectives

- Building powerful, dynamic web applications
- Making development easier with the Vue.js Framework
- Easily process large volumes of MongoDB data
- Optimizing Node.js framework development with Express

Target audience

Developers, Technical architects, Project managers, Design engineers

Prerequisites

- Knowledge of HTML and CSS
- Good knowledge of JavaScript, or experience with another front-end framework such as React or Angular
- Knowledge of databases

Further information

- To complement this, we offer the [Vue.JS Advanced](#) training course, to deepen your knowledge and make you an expert on Vue.JS.
- You may also be interested in the [MongoDB Advanced training course](#) to improve your performances.

MEVN training program

Day 1: Vue.js

- Introduction
- Syntax and expression of Vue templates
- Responsive list rendering
- Input management and development tools Vue
- User events
- Methods
- Conditional rendering
- Attribute linking
- Dynamic classes
- Property handling
- Introduction to components
- Component template
- Reusable component with props transmission
- Nested components
- Local and global components
- Communication between components
- Component name syntax
- Component life cycle

- Mixins
- Router view
- Main npm packages for Vue

Day 2: Node.js / MongoDB

- Node.js introduction and installation
- TP introduction
- ES6
- Asynchronism
- TP asynchronism
- MongoDB introduction
- MongoDB shell and CRUD
- TP shell and CRUD Mongo
- MongoDB data models
- MongoDB advanced queries
- Introduction to Express
- Express Routing and Architecture
- Express Middleware
- Mongoose
- TP Mongoose CRUD
- TP Mongoose/Node.js algorithms

Day 3: Vuex and Full Stack MEVN with Nuxt

- What is Vuex?
- Status management with Vuex
- Vuex: mutations, getters, actions and LocalStorage
- What is Nuxt?
- Webpack and Babel
- Create an app in Nuxt
- Customize home page
- Components in Nuxt
- Global CSS
- Create, read, update and delete data in full stack
- Login and Signup
- Social logins
- Dynamic routes
- Links between pages
- SEO and meta-tags
- Generating code for production
- Deploy on Heroku
- Deploy on Netlify

Companies concerned

This training course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the training to come, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical course: 60% Practical, 40% Theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Sanction

A certificate will be issued to each trainee who completes the course.