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Fastify training

2 days (14 hours)

Presentation

Fastify is the ideal alternative to Node.JS API frameworks. This lightweight web framework is specially designed for back-end web development.

Fastify will help you improve your API Rest design performance by optimizing your request volume processing.

It lets you quickly check incoming and outgoing requests thanks to its system of request parameters. In its latest version, it boasts a fast plug-in ecosystem, making it the fastest framework of its kind compared to Koa, Restify and Express.

In this training course, you'll discover how to implement and exploit this framework. You'll learn best practices that will help you achieve outstanding performance. You'll also master the principle of encapsulation, which will make your modules available in different application spaces.

The course alternates between theoretical knowledge from the trainer, supported by examples, and reflection and group work sessions. At the end of the session, you will be given a multiple-choice questionnaire to check that you have correctly acquired your skills.

Like all our training courses, this one will introduce you to the latest Fastify 4.5 version.

Objectives

- Master the functionalities of the Fastify framework
- Control incoming and outgoing request checks using existing plugins
- Encapsulate and distribute your project's functionalities in the form of plugins
- Create your first REST API with Fastify
- Composing applications with the libraries of your choice

Target audience

- Web Developer
- Backend developer

Prerequisites

- Knowledge of JavaScript, HTTP, TypeScript
- Backend expertise

Fastify training program

INTRODUCTION

- What is Fastify
- Discover its benefits
- Understanding the framework mechanism
- Fastify ecosystem

FRAMEWORK BASICS

- Setting up your first Fastify API
- Define Fastify API routes
- Add schema validation to queries
- Templating
- Create a Fastify server

Fastify hooks

- Validate and serialize data
- High-speed query validation
- Defining hooks
- Reacting to requests with hooks
- Enrich queries and responses with Decorators
- Connecting a database to a Fastify server

Fastify plugin

- Plugin system
- Loading and using Fastify plugins
- Encapsulation
- Practical work: Framework application and tooling

COMPONENT

- Web component
- JSON schema
- Ajv (query validation)
- Fast-json-stringify (serialization of response body)

GUIDELINES

- Directive : Operation and creation
- Guidelines provided by Fastify
- Complex guidelines
- TP: First directive

MODULES

- Module declarations: imports and exports
- Reusing modules

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 is used to check correct acquisition.

skills.

Sanction

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