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JHipster Training

2 days (14 hours)

Presentation

An architect or developer has to set up the technical architecture of his application. This is a long and difficult task, requiring high-level skills.

[JHipster](#) is a tool that generates the technical architecture of a [Microservices application](#) based on Spring Boot and Angular or React, supplemented by rich components. The application skeleton thus provided is equipped with a connectivity, security and testing foundation, so that the basic elements are available from the outset and you can concentrate solely on the business code. This 2-day training course describes the full range of JHipster's capabilities. It is illustrated by practical examples and an implementation demonstration. JHipster provides developers with a modern, high-performance environment that you won't want to do without!

As in all our training courses, this one will introduce you to the latest version of JHipster (at the time of writing: [JHipster 7.1](#) released in April 2019).

Objectives

- Be able to use JHipster as a technical foundation for your projects
- Understanding the structure of a monolithic application generated by JHipster
- Secure and test your application using JHipster
- Understand best practices for maintaining and upgrading a JHipster application

Target audience

Developers, Lead Developers, Architects, DevOps.

Prerequisites

Good knowledge of Java and JavaScript ecosystems (Spring, JPA and Angular).

JHipster training program

Introduction

- JHipster philosophy
- Classic architecture of a JHipster application
- Documentation
- Tools and best practices
- What's new in JHipster 5, 6 and 7

Basic technologies

- Spring Boot
- Angular 5
- Yeoman/Maven/Yarn/Git

The main generator

- JDL studio
- JHipster Online
- Local Installation
- Details of possible options
- Study of generated files
- Getting your project off to a good start

Project structure

- Java project structure
Configuration files
Angular code structure

The "entity" sub-generator

- Simple CRUD generation
- Relationship types
- Using validation
- Pagination

Using development workflows

- Installing a library with Yarn

- Using Webpack to develop your front-end
- Updating your database with Liquibase
- Using Spring and Maven profiles

Internationalization

- The "languages" sub-generator
- i18n in Java

Data access

- Spring Data JPA with SQL database
- MongoDB
- Liquibase

Security

- Available options: stateful, stateless...
- Remember-me
- CSRF
- Using the "User" entity in a many-to-one relationship

The tests

- Back-end (JUnit) and Front-end (Jest) unit testing
- Mocks and integration tests with Spring
- Interface testing with Protractor
- Performance tests with Gatling

Deploy in production

- The "prod" profile: front-end minification and server-side optimizations
- Deploying an executable JAR
- Deploy on an application server

Angular Advanced Training

Angular training

Vue.js training

Companies concerned

This course is aimed at companies, large or small, wishing to train their teams in a new, advanced computer technology.

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.