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REST APIs

Overview:

REST APIs Course Overview

REST APIs are a staple for developers the world over. Whether it's to provide a web app with access to server data or to facilitate comms between microservices, REST APIs have exploded in popularity due to their simplicity and flexibility.

This course comprises sessions dealing with prerequisite topics including HTTP and JSON, core REST theory, the building of REST services and clients, REST API configuration including caching and HATEOAS, and yet more REST theory including the Richardson Maturity Model, the n+1 problem, and authentication techniques.

Exercises and examples are used throughout the course to give practical hands-on experience with the techniques covered. Delegates have the option of coding in either Java, Python, or JavaScript.

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

Who will the Course Benefit?

This course will benefit developers who are required to build or maintain REST services and/or clients,and anyone otherwise interested in what a REST API is,how it works,and how to build a good one.

Objectives:

Course Objectives

This course aims to provide the delegate with the skills and knowledge necessary to design and build good quality REST APIs.

Prerequisites:

Delegates attending this course should have some knowledge of, or experience in, software development. Ideally delegates will be comfortable coding in Java, Python, or JavaScript to a fundamental level. This knowledge can be gained by attendance on one of the following courses.

Follow-on-Courses:

Further Learning

- Core Spring (4 day)
- Python Programming 2
- Developing Node.js Web Applications
- GraphQL

Content:

REST APIs Training Course Course Contents - DAY 1	Session 2: REST THEORY	Session 5: REST API CONFIGURATION
	What is a REST API?	Caching
	Guiding principles/constraints	Compression
Course Introduction	Resources	Content negotiation
	Methods	HATEOAS
Administration and Course Materials	Naming	Idempotence
Course Structure and Agenda		Security
Delegate and Trainer Introductions	Session 3: REST SERVICES	Versioning
		Statelessness
Session 1: PREREQUISITES	Designing a REST API	Documentation
	Building a REST service with:	
APIs	Spring Boot (Java) or;	Session 6: MORE REST THEORY
Web apps	Flask (Python) or;	
■ Web services	Express (JavaScript)	The Richardson Maturity Model
HTTP		Searching,sorting,and pagination
JSON	Session 4: REST CLIENTS	The n+1 problem
Serialisation		PUT vs. POST
	Off-the-shelf REST clients,e.g. Postman	Authentication techniques
	Building a REST client with:	
	HttpClient (Java) or;	
	Requests (Python) or;	

Further Information:

For More information, or to book your course, please call us on 0800/84.009
info@globalknowledge.be
www.globalknowledge.com/en-be/