Efficient Spring Data REST Development

think.
create.
accelerate.

Who I Am

JUnit
IN ACTION

THIRD EDITION

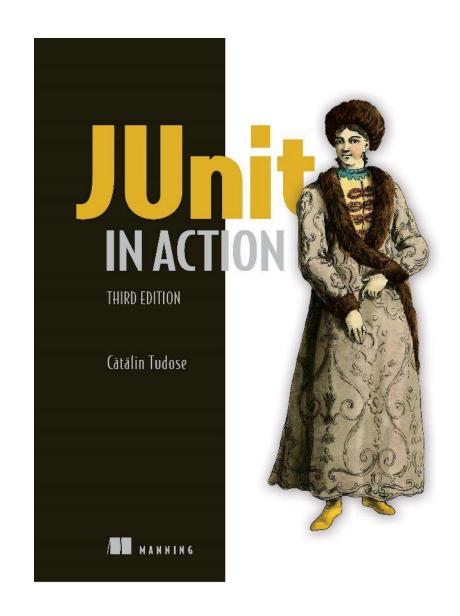Cătălin Tudose

MANNING

What is REST (Representational State Transfer)?

- Software architectural style for creating RESTful web services

- Allow interoperability between Internet and computer systems

- Requesting systems can access and manipulate web resources represented as text

- Uses a set of well-known stateless operations

The REST Architectural Style

- Not protocol-specific, most widely used: REST over HTTP

- The representation of the state can be JSON, XML, or HTML.

- The client uses the API to send the following to the server:

  - The identifier (URL) of the resource

  - The operation to perform on the resource (GET, POST, PUT, PATCH, DELETE)

What is an ETag?

- ETag (entity tag) – HTTP response header returned by an HTTP/1.1 compliant web server used to determine change in content at a given URL.

- Use ETags for caching and conditional requests.

- Efficiently controls data to be retrieved.

Generating REST Events

- There are two ways of generating REST events:
  - Writing an `AnnotatedHandler`
  - Writing an `ApplicationListener`

Projections and Excerpts

- Spring Data REST presents a default view of the domain model you export.

- Sometimes you may need to alter the view of that model for various reasons.

- Projections and excerpts serve as efficient and reduced views of resources.

Reactive Access to Repositories

- Efficiently retrieve results as a stream

  - ReactiveCrudRepository

  - R2dbcRepository

Thank you!

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