

Spring Professional Exam Tutorial v5.0

Question 19

Question 19 - What are the advantages of the RestTemplate?

RestTemplate is a synchronous HTTP client wrapper to perform HTTP requests. It exposes simple API over underlying HTTP client libraries:

- ▶ JDK HttpURLConnection
- ▶ Apache HttpComponents
- ▶ OkHttp
- ▶ ...

It supports:

- ▶ Automatic Object Serialization/Deserialization:
 - ▶ JAXB2, Jackson2, GSON, JSONB, ...
- ▶ Automatic HttpResponseMessageConverters registration
- ▶ URI Templates
- ▶ Exchange Operation - send and retrieve, for example HTTP POST that takes input object and returns object
- ▶ HTTP GET for Object
- ▶ HTTP HEAD for Headers
- ▶ HTTP POST for Object
- ▶ HTTP PUT with Object
- ▶ HTTP PATCH for Object
- ▶ HTTP DELETE

Question 19 - What are the advantages of the RestTemplate?

RestTemplate has following advantages:

- ▶ Simplicity
- ▶ Automatic Object Serialization/Deserialization
- ▶ High-Level API allows you to focus on business side of operations
- ▶ Provides support for common HTTP GET, POST, PUT, PATCH, HEAD, OPTIONS, DELETE operations
- ▶ Flexibility:
 - ▶ Allows Custom Error Management with usage of `ResponseErrorHandler`
- ▶ Extendibility:
 - ▶ Allows to register custom `HttpMessageConverters`
 - ▶ Allows to register custom `ClientHttpRequestFactory`
- ▶ URI Templates Support
- ▶ Minimal amount of code required
- ▶ Automatic content type detection

Question 19 - What are the advantages of the RestTemplate?

Because of its simplicity, REST Template is often used in testing code, however it can be used as general purpose HTTP Client.

* Whenever using REST Template as HTTP Client, also consider Spring Cloud components if the purpose is to build distributed system



