

Advanced Features in the JAX-RS APIs

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Textbook

- Bogunuva Mohanram Balachandar. RESTful Java Web Services - Third Edition (2017). Packt Publishing Limited.
 - Chapter 4: Advanced Features in the JAX-RS APIs

Sample Code

- Available at <https://go.newai.vn/37ufcNr>

Update Log

- 29/01/2020: release first version of this slide

Objective

- Understanding subresources and subresource locators in JAX-RS
- Dynamic dispatching and request matching
- Response builder explained
- Exception handling in JAX-RS
- Introducing validations in JAX-RS applications
- Supporting custom request-response message formats

Objective

- Asynchronous RESTful web services
- Asynchronous RESTful web service client
- Server-Sent Events
- Managing the HTTP cache in a RESTful web service
- Understanding filters and interceptors in JAX-RS
- Understanding the JAX-RS resource life cycle

Outline

1. Understanding subresources and subresource locators in JAX-RS
2. JAX-RS response builder explained
3. Exception handling in JAX-RS
4. Reporting errors using application exceptions
5. Introducing validations in JAX-RS applications
6. Supporting custom request-response message formats
7. Asynchronous RESTful web services
8. Asynchronous RESTful web service client
9. Server-sent events
10. Managing an HTTP cache in a RESTful web service
11. Understanding filters and interceptors in JAX-RS
12. Understanding the JAX-RS resource life cycle
13. Summary

Chapter Content

- Chapter contents are available in the main textbook of this course.

Summary

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- In this chapter, we explored the advanced offerings in the JAX-RS framework
- In particular, we discussed subresources and subresource locators, validations, exception handling, JAX-RS entity providers, asynchronous RESTful web services and interceptors, and filters for JAX-RS applications
- We concluded this chapter by discussing the life cycle of all JAX-RS components that we have learned about so far
- In the next chapter, we will learn about the Jersey and RESTEasy framework extensions in detail

END OF CHAPTER