

WEEK 8

Thursday, August 3, 2023 9:57 PM

TOPICS/MODULES

1. Annotations
2. Spring boot properties
3. H2 database
4. Thyme leaf
5. Spring Data JPA
6. JDBC Template
7. Rest Template/Web Client
8. Packaging(WAR/JAR)
9. Application Server
10. Mockito/JUnit
11. Integration Testing
12. Scheduling Task in Spring
13. Exception Handling 2

LEARNING OUTCOMES

1. Understand how to configure a spring project
2. Understand how to use H2 in memory database
3. Know how to use thyme leaf as a template engine
4. Understand how to handle exceptions in spring boot
5. Understand logging using Log4
6. Understand how to use spring data JPA
7. Know how to consume an external API
8. Understand various formats of packaging Spring applications
9. Know how to host a WAR file on an external applications server
10. Learn how to test spring boot application using JUnit
11. Learn how to mock using Mockito
12. Know how to write Integration Test

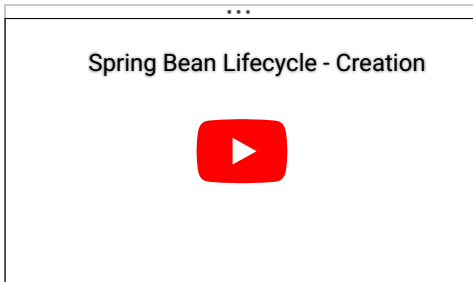
LEARNING MATERIALS

1. <https://docs.spring.io/spring-data/jpa/docs/2.2.5.RELEASE/reference/html/#reference>
2. <https://spring.io/guides/gs/rest-service/>
3. <https://www.baeldung.com/rest-template>
4. <https://www.baeldung.com/spring-webclient-resttemplate>
5. <https://www.mulesoft.com/resources/api/what-is-rest-api-design>
6. <https://howtodoinjava.com/spring-boot2/testing/testing-support/>
7. <https://www.smashingmagazine.com/2018/01/understanding-using-rest-api/>
8. <https://www.baeldung.com/mockito-series>
9. <https://junit.org/junit5/docs/current/user-guide/>
10. <https://javadoc.io/doc/org.mockito/mockito-core/latest/org/mockito/Mockito.html>
11. <https://howtodoinjava.com/spring-boot-tutorials/>
12. [Spring Bean Lifecycle - Creation](#)

Spring Bean Lifecycle - Creation



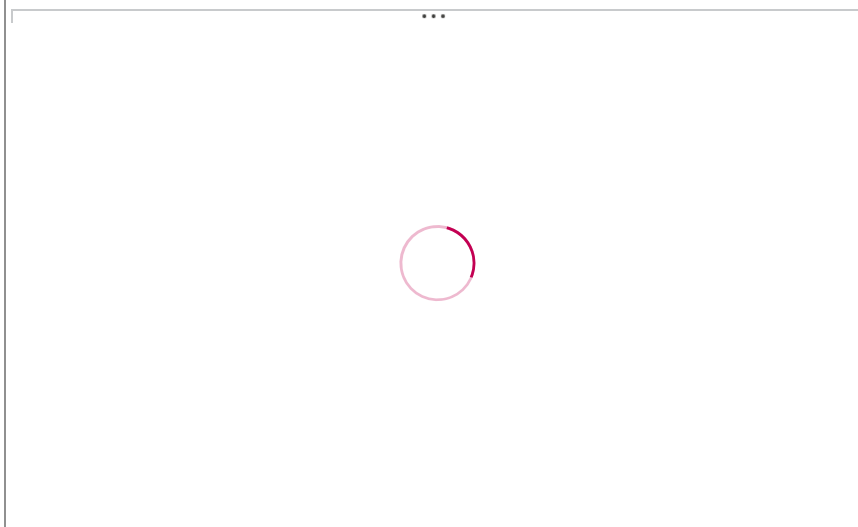
13. [Spring Bean Lifecycle - Creation](#)



- 14. https://www.toptal.com/java/spring-boot-rest-api-error-handling_
- 15. <https://mkyong.com/spring-boot/spring-rest-error-handling-example/>
- 16. https://www.baeldung.com/spring-boot-h2-database_
- 17. <https://www.thymeleaf.org/doc/tutorials/3.0/usingthymeleaf.html>

ALGORITHM

[Microsoft Stream](#)



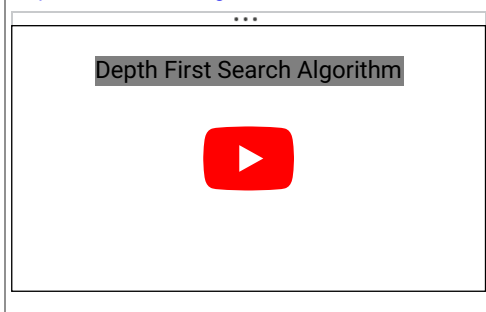
[1. Introduction to Graph Theory.](#)

[2. Deep dive through Depth First Search](#)

[3. Breaking down Breadth First Search](#)

[4. Breadth First Search Transversal](#)

[Depth First Search Algorithm](#)



[Breadth First Search Algorithm](#)



Breadth First Search Algorithm

