**Spring Boot - 2**

1. Checkout to the branch “spring-boot-app-v1” you created in spring boot - 1
2. Create a new branch “spring-boot-app-v2”
3. Propose a proper directory structure for your project created in spring boot part 1
4. Use API naming conventions to your endpoints
5. Use separate request and response types
6. Use exception handling where applicable
7. Return proper status codes
8. Use optionals where possible
9. Why do we need logging in our applications?

* We often face errors, when we are building our application. Those are need to be debugged. Loggers are objects which trigger log events. They called in the code of the application. So we can easily get information about what is happening in the application with a record of errors and unusual circumstances.

1. What are different types of log levels?

* ALL – All levels including custom levels.
* DEBUG – This should be used for information that may be needed for diagnosing issues and troubleshooting or when running application in the test environment for the purpose of making sure everything is running correctly
* INFO – Standard log level indicating that something happened, the application entered a certain state.
* WARN – Log level that indicates that something unexpected happened in the application, a problem, or a situation that might disturb one of the processes
* ERROR – Log level that should be used when the application hits an issue preventing one or more functionalities from properly functioning.
* FATAL – Log level that tells that the application encountered an event or entered a state in which one of the crucial business functionality is no longer working
* TRACE - Log level describing events showing step by step execution of your code this can be ignored during the standard operation. Useful during extended debugging sessions.

1. Use a logging framework and add logs to your application
2. Push your updated project to “spring-boot-app-v2”
3. Add your codes and answer sheet to a directory named “spring-boot-basic-training-v2” and push it to your training github repository
4. Create a pull request to main branch and assign it to your trainer

**Resources**

<https://nordicapis.com/10-best-practices-for-naming-api-endpoints/>

<https://restfulapi.net/resource-naming/>

<https://www.geeksforgeeks.org/spring-boot-code-structure/>