# **Pretest Details**

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| **Duration of the test** | 120 min (15 min to share instruction details +  90 min Test +   15 min upload & email Solution artifacts |
| **Topics for the test** | Springboot & Java 8 |
| **Prerequisite** | Java 1.8 IntelliJ IDE Springboot starter project created and imported into IntelliJ.  Please use https://start.spring.io/ to create the project with the following dependencies - Spring Web and Lombok dependencies Create Git account and get familiarized of creating / adding projects in Git |
| **Minimum knowledge required for taking the assessment** | Implementing REST API’s using Springboot Implementing code using Java 8 Features. For example, Lambda expressions Streams Implementing multithreading using Executor Service in Springboot Comfortable using Json library e.g.: Gson Implementing Junit test cases in Springboot |
| **High level Test format** | Given a problem statement, sample input & output, the participants would be asked to implement Springboot REST endpoints, using concepts of Streams, lambda expressions, Executor service |
| **Reference course links** | <http://tutorials.jenkov.com/java-util-concurrent/executorservice.html> |
| **Maven**  https://maven.apache.org/guides/getting-started/maven-in-five-minutes.html |
| **Java 8 Lambda Expressions & Streams** https://docs.oracle.com/javase/tutorial/java/javaOO/lambdaexpressions.html https://winterbe.com/posts/2014/07/31/java8-stream-tutorial-examples/ https://www.baeldung.com/java-stream-filter-lambda |
| **Springboot:** https://www.baeldung.com/rest-with-spring-series https://www.baeldung.com/java-executor-service-tutorial |
| **General instructions for coding** | Code should be written as per Java coding guidelines E.g.: Naming conventions to be followed Modularization to be implemented to ensure reusability Comments to be added where appropriate |
| Executable jar file to be created |
| Exceptions to be handled gracefully |
| Logger to be created for every class |
| **Test Platform** | a. Participant will be shared a Zoom meeting link 2 days in advance. b. After logging in to zoom meeting, participant are expected to "Turn on the video" throughout the session. c. In case web cams do not work in the laptop, its advised to login with phone and 'Turn On' the video. |