

## Resources used for building weatherApp project. (18/02/2023)

1. Runnable & Callable interfaces:  
[https://www.baeldung.com/java-runnable-callable#:~:text=The%20Runnable%20interface%20is%20a,%7B%20public%20void%20run\(\)%3B%20%7D](https://www.baeldung.com/java-runnable-callable#:~:text=The%20Runnable%20interface%20is%20a,%7B%20public%20void%20run()%3B%20%7D)
2. ExecutorService interface: <https://www.baeldung.com/java-executor-service-tutorial>
3. Future & CompletableFuture objects:  
<https://www.javatpoint.com/java-future-example> ,  
<https://www.javatpoint.com/completablefuture-in-java#:~:text=A%20CompletableFuture%20is%20an%20extension,the%20computation%20when%20it%20completes>
4. @Value annotation: <https://www.baeldung.com/spring-value-annotation>
5. Function interface:  
<https://www.geeksforgeeks.org/function-interface-in-java-with-examples/#:~:text=The%20Function%20Interface%20is%20a,argument%20and%20produces%20a%20result>
6. Unmodifiable Map & Immutable Map:  
<https://www.baeldung.com/java-immutable-maps>
7. @ConfigurationProperties & @EnableConfigurationProperties annotations:  
<https://zetcode.com/springboot/configurationproperties/#:~:text=The%20%40Configuration%20annotation%20makes%20it,the%20prefix%20for%20our%20properties.&text=I%20n%20the%20MyRunner%20%2C%20we%20inject,field%20and%20read%20its%20values.&text=Application%20is%20the%20entry%20point%20which%20sets%20up%20Spring%20Boot%20application> ,  
<https://www.baeldung.com/configuration-properties-in-spring-boot>

8. AtomicReference:

[https://www.tutorialspoint.com/java\\_concurrency/concurrency\\_atomicreference.htm#:~:text=AtomicReference%20class%20provides%20operations%20on,on%20underlying%20Object%20reference%20variable.](https://www.tutorialspoint.com/java_concurrency/concurrency_atomicreference.htm#:~:text=AtomicReference%20class%20provides%20operations%20on,on%20underlying%20Object%20reference%20variable.)

9. Chain of Responsibility principle:

<https://www.digitalocean.com/community/tutorials/chain-of-responsibility-design-pattern-in-java>

10. Interceptors in OkHttp Java:

<https://www.baeldung.com/java-okhttp-interceptors> ,  
<https://square.github.io/okhttp/features/interceptors/>

11. Correlation ID:

<https://www.oreilly.com/library/view/building-microservices-with/9781785887833/1bebcf55-05bb-44a1-a4e5-f9733b8edfe3.xhtml> ,  
<https://www.okta.com/identity-101/correlation-id/> ,  
<https://labs.leaseweb.com/using-correlation-ids-in-api-calls-42b1cd84813b>

12. MDC (Mapping Diagnostic Context):

<https://medium.com/@eranda/mapped-diagnostic-context-mdc-b6c81ff426f1> ,  
<https://howtodoinjava.com/logback/logging-with-mapped-diagnostic-context/>

!) **Note:** Correlation ID and MDC are used in combination with each other!

13. Thread Pools in Java:

<https://www.geeksforgeeks.org/thread-pools-java/>  
<https://www.baeldung.com/thread-pool-java-and-guava>

14. Factory Design Pattern:  
<https://www.digitalocean.com/community/tutorials/factory-design-pattern-in-java>
15. ThreadFactory interface:  
<https://www.geeksforgeeks.org/threadfactory-interface-in-java-with-examples/>
16. Flyway migration in Spring Boot:  
<https://www.baeldung.com/database-migrations-with-flyway> ,  
<https://flywaydb.org/documentation/concepts/migrations>,  
<https://blog.devgenius.io/database-migration-in-spring-boot-using-flyway-ee791db8aea0>,  
<https://www.youtube.com/watch?v=ovG1wgEqE10> ,  
[https://www.youtube.com/watch?v=Itdq3vI5g\\_U](https://www.youtube.com/watch?v=Itdq3vI5g_U),  
<https://www.section.io/engineering-education/spring-boot-flyway-migrations/>,  
<https://medium.com/capital-one-tech/database-migrations-with-flyway-16b6478e55a6>,  
<https://www.youtube.com/watch?v=Wo0gXUVjy2A>,  
<https://dzone.com/articles/database-versioning-with-flyway-and-java>,  
<https://dev.to/trustbirungi/getting-started-with-flyway-in-spring-boot-po1>
17. Flyway baseline migration profiles in application.yml :  
<https://flywaydb.org/documentation/concepts/baselinemigrations> ,  
<https://flywaydb.org/documentation/tutorials/baselineMigrations> ,  
<https://flywaydb.org/documentation/configuration/parameters/outOfOrder>

18. Database Cache:  
<https://stackoverflow.com/questions/12227752/what-is-a-database-cache-and-how-does-one-use-it>,  
<https://www.quora.com/What-is-database-cache>
19. NamedParameterJdbcTemplate class:  
<https://docs.spring.io/spring-framework/docs/current/javadoc-api/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.html>
20. How to push submodules of project into GitHub repository (through Git):  
<https://www.youtube.com/watch?v=gSlXo2iLBro>
21. How to create custom deserializer in java:  
<https://www.baeldung.com/jackson-vs-gson>  
<https://www.baeldung.com/jackson-custom-serialization>  
<https://www.baeldung.com/jackson-deserialization>  
<https://www.baeldung.com/java-jsonnode-get-keys>
22. How does JsonNode work and how to parse Json object from Json array:  
<https://mkyong.com/java/jackson-tree-model-example/>
23. What is Batch Operation in JDBC and how to use it:  
<https://www.baeldung.com/jdbc-batch-processing>  
<https://docs.spring.io/spring-framework/docs/3.0.0.M3/reference/html/ch13s04.html>
24. TaskScheduler and Dynamic Scheduling:  
<https://docs.spring.io/spring-framework/docs/current/javadoc-api/org/springframework/scheduling/annotation/SchedulingConfigurer.html>  
<https://samuel-mumo.medium.com/one-stop-guide-for-implementing-scheduling-in-spring-boot-660dec88a25e>

<https://learnwithtaufik.home.blog/2019/03/05/dynamic-scheduling-with-spring-boot/>  
<https://www.baeldung.com/spring-task-scheduler>  
<https://docs.spring.io/spring-framework/docs/4.2.x/spring-framework-reference/html/scheduling.html#:~:text=The%20TaskExecutor%20was%20originally%20created,TaskExecutor%20abstraction%20to%20pool%20threads.>

25. Making methods Async:

<https://spring.io/guides/gs/async-method/>

26. Event-driven programming:

<https://www.callicoder.com/java-8-completablefuture-tutorial/>

<https://stackoverflow.com/questions/35809827/java-8-completablefuture-allof-with-collection-or-list>

<https://kalpads.medium.com/fantastic-completablefuture-allof-and-how-to-handle-errors-27e8a97144a0>