AOP

Declaring Advice

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Advice is associated with a pointcut expression and runs before, after, or around method executions matched by the pointcut. The pointcut expression may be either an inline pointcut or a reference to a named pointcut.

So far we have been using the @Before Advice annotation simply. Spring AOP, however, provides more interesting functionalities.

Official doc: here

Advice Types

1. @Before advice

We can capture the JoinPoint at the @Before annotated method which offers us much useful information like the method name, method arguments, and many more.

2. @After advice

This advice is run after the method finishes running, this could be by normally returning or by throwing an exception.

Advice Types

3. @AfterReturning advice

This is similar to @After but it's run only after a normal execution of the method. This can also be used to access the returning object.

4. @AfterThrowing advice

This is similar to @After but it's run only after an exception is thrown while executing the method.

Advice Types

5. @Around advice

This annotation allows us to take actions either before or after a JoinPoint method is run. We can use it to return a custom value or throw an exception or simply let the method run and return normally.