

Spring AOP Use cases and Terminologies

Use cases:

- logging-related
- security checks
- transaction management
- tweaking of a legacy application
- Validation
- Exception Handling
- Performance measurement

Aspect: An Aspect is a class that implements concerns that cut across different classes such as logging. It is just a name.

Advice: Action taken by aspect at particular join point. For example: Before execution of `getEmployeeName()` method, put logging. So here, we are using before advice.

Join point: It is a point in execution of program such as execution of method. In Spring AOP, a join point always represents a method execution.

Pointcut: Pointcut is an expression that decides execution of advice at matched join point. Spring uses the AspectJ pointcut expression language by default.

Advices:

@Before: it executes before a join point.

@After: @After will be called regardless of whether the target threw an exception or not.

@AfterReturning: it executes after a joint point completes normally.

@AfterThrowing: it executes if method exits by throwing an exception.

@Around: It executes before and after a join point.