

Aspect-oriented Programming (AOP)

+

Transaction Management

Aspect-oriented Programming (AOP)

51. What is AOP?

52. What are the AOP implementation API's there in Spring?

A) Spring AOP, AspectJ AOP, JBoss AOP.

53. Does spring perform weaving at compile time?

54. Difference Between After, AfterReturning, AfterThrowing advices?

55. Explain about Spring AOP Internals?

56. What are the AOP terminology?

1. Aspect.

2. Advice.

a. BeforeAdvice.

**Usecase: Security check---Load
Approval.**

b. AfterAdvice and AfterReturning.

Usecase: ATM pin generation

c. ThrowsAdvice.

d. AroundAdvice(Before+After):

Usecase: Cache.

3. JoinPoint.

4. pointcut.

5. Target class.

6. Weaving.

7. Proxy class.

57. Where can be applied JoinPoint?

**A) Can be applied on method, field,
constructor.**

**58. Does Spring support method, field,
constructor joinpoints?**

A) No, only supports method level joinpoints.

59. what is primary and secondary logics in AOP?

60. Explain about Proxy design Pattern?

61. Explain about decorator design Pattern?

62. Which library files are Internally used by Spring AOP enabled API's?

A) CGlib and JDK.

63. Difference between Spring AOP and AspectJ AOP?

64. what is helper logic?

65. what is Cross Cutting Concerns?

**A) It is also called as secondary logics.
secondary logics applied multiple business methods across the project.**

66. Give me examples of secondary logics?

A) validating user, logging, auditing.

67. How to Achieve Loose Coupling by using Spring AOP?

68. How to Enable and Disable Secondary logics in Spring AOP?

69. How to configuration Advice, Aspect in Spring AOP?

70. What is in-memory proxy class?

Transaction Management

71. What is Transaction Management?

72. Explain about ACID properties?

73. Explain about commit and rollback in Transaction Management?

74. Explain about Local and Global Transaction Management?

75. Explain about Spring Transaction Attributes or Propagation types?

- A) 1. REQUIRED
2. REQUIRES_NEW
3. SUPPORTS
4. NEVER
5. NOTSUPPORTED
6. MANDATORY
7. NESTED

76. How to activate Transactions in Spring Boot?

A) At business class level use @Transaction.

78. Why we need TransactionManager in Spring Boot?

79. What are Transaction Properties there in Spring?

A) isolation
readOnly
timeout
rollbackFor, etc....

80. Where Spring Transaction Logic used in AOP?

A) It is used as a Secondary logic/Cross

Cutting Concern.

81. What is Transaction Management in Spring Boot?

82. Tell me one use case of Spring Transaction Management?

Use Case:

While Online shopping Order confirmation and payment deduction happen at a time. If any One operation failed remaining operations undo.

/*The ENDALL THE BEST***/**