Bean Lifecycle

@PostConstruct

ApplicationContext
BeanPostProcessor

@PreDestroy

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Initialization and Destruction

- The @PostConstruct annotation is used on a method that needs to be executed after dependency injection is done to perform initialization.

- The @PreDestroy annotation is used on methods as a callback notification to signal that the instance is in the process of being removed by the container.
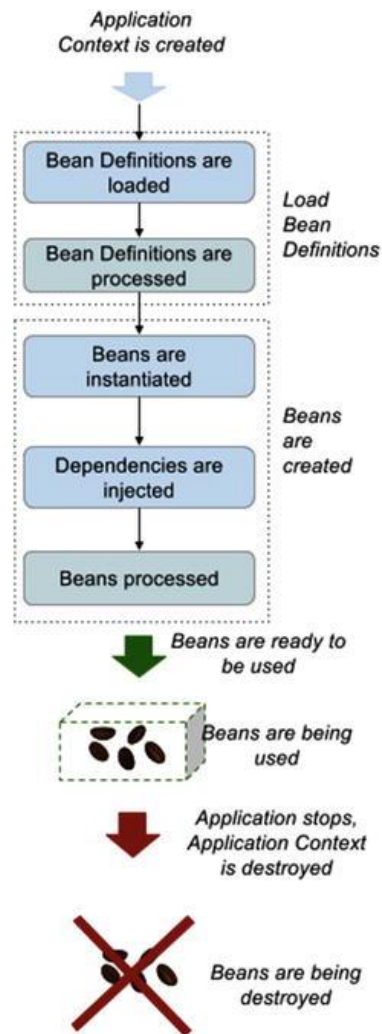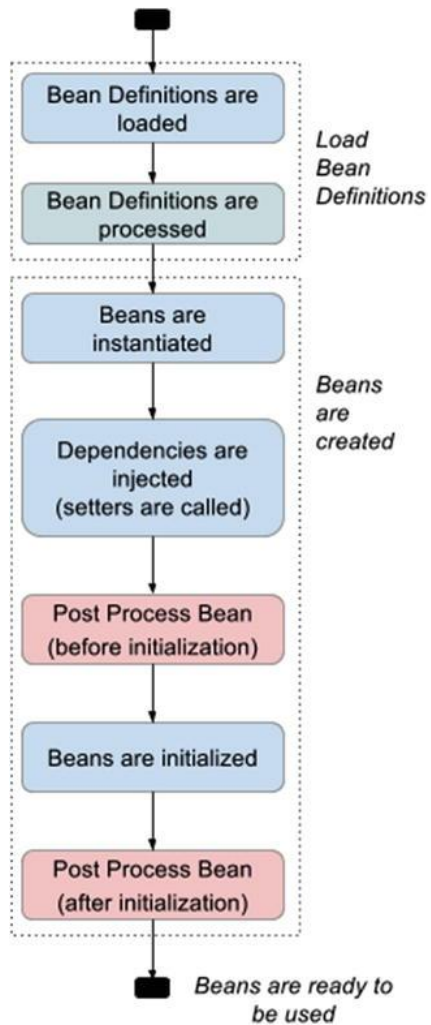
JSR-250 - JSR-330

- JSR-250 - is a Java Specification Request with the objective to develop annotations (that is, information about a software program that is not part of the program itself) for common semantic concepts in the Java SE and Java EE platforms that apply across a variety of individual technologies.

- JSR-330 - Java Specification for Dependency Injection

JSR-250

Spring	JSR	Comment
@Component	@Named	@Named can be used instead of all stereotype annotations except @Configuration
@Qualifier	@Qualifier	JSR Qualifier is a marker annotation used to identify qualifier annotations, like @Named, for example
@Autowired	@Inject	@Inject may apply to static as well as instance members
@Autowired + @Qualifier	@Resource(name="beanName")	@Resource is useful because replaces two annotations.

Application
Context is created

Bean Definitions are
loaded

Bean Definitions are
processed

Load
Bean
Definitions

Beans are
instantiated

Dependencies are
injected

Beans processed

Beans
are
created

Beans are ready to
be used

Beans are being
used

Application stops,
Application Context
is destroyed

Beans are being
destroyed

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Bean Definitions are loaded

Bean Definitions are processed

Load Bean Definitions

Beans are instantiated

Dependencies are injected (setters are called)

Post Process Bean (before initialization)

Beans are initialized

Post Process Bean (after initialization)

Beans are created

Beans are ready to be used

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@PostConstruct

ApplicationContext
BeanPostProcessor

@PreDestroy