

Spring Annotations

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1. **@Autowired:**

Used for Constructor, Fields and Methods. When you declare a method as @Autowired and bean is defined in xml file. By using Id, the property or method will be automatically included in the class. We can use @Qualifier attribute to avoid ambiguity with @Autowired.

2. **@Required:**

It specifies that property which is stated as required should be injected with a value. Otherwise, spring will throw an exception (BeanInitialization).

3. **@Component:**

We have seen autowired which automatically binds methods and properties. Here component registers beans itself when we specified a class with Component.

4. **@Controller:**

In MVC point of view, we can specify a class as controller where we implement business logic.

5. **@Repository:**

Makes the declared class as repository. It makes SQL Exceptions into Spring DataAccess Exception.

6. **@Service:**

Defines it as a service in MVC architecture. It acts as an interface which provides the functionality using model.

7. **@RequestParam:**

This specifies that it will be passed through a web request which has to be used in processing.

8. **@SessionAttributes:**

These are the attributes which are replacement for values stored in the session object. These can be used for passing values between pages.

9. **@RequestMapping:**

Maps to the url or http method to Controller or method.

10. @Transactional:

Indicates start of a transaction and specifies rules for the bean or to its method.

11. @PostConstruct:

Defines that method can be invoked only after the bean is created. Used for initialization.

12. @AfterTransaction & @BeforeTramsaction:

Declares that method has to be invoked after/before a transaction.

13. @Timed:

Time limit where the test will be failed if the test is not completed within that limit.

14. @Scope:

Defines the scope for a bean. Singleton, prototype, request or session.

15. @RequestBody:

The method is bound to take HttpRequest as parameters to it. arguments will be depend on the content type of the request.