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## 8 Java Annotations interview Questions and Answers

Posted on [September 7, 2014](#) by [Arulkumaran Kumaraswamipillai](#) — No Comments ↓



**Q1.** Are annotations a compile time or run-time feature?

**A1.** You can have either compile-time or run-time annotations.

**@Override** is a simple **compile-time** annotation to catch little mistakes like typing `tostring( )` instead of `toString( )` in a subclass.

```
1 public class B extends A {
2
3     private String input;
4
5     @Override
6     public String toString(){
7         return "input=" + input;
```

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```

8      }
9  }
10

```

If you remove the `toString( )` method in Class A or misspell `toString()` method in Class B, the compiler will warn you.

User defined annotations can be processed at compile-time using the **Annotation Processing Tool (APT)** that is included in the Java 6 itself.

**@Test** is an annotation that JUnit framework uses at **runtime** with the help of reflection to determine which method(s) to execute within a test class.

```

1  public class MyTest{
2      @Test
3      public void testEmptyness( ){
4          org.junit.Assert.assertTrue(getList( ).
5      }
6
7      private List getList( ){
8          ...
9      }
10 }

```

The test below fails if it takes more than 100ms to execute at runtime.

```

1  @Test(timeout=100)
2  public void testTimeout( ) {
3      while(true);    //infinite loop
4  }

```

The code shown below fails if it does not throw “`IndexOutOfBoundsException`” or if it throws a different exception at runtime. A negative JUnit test.

```

1  @Test (expected=IndexOutOfBoundsException.class)
2  public void testOutOfBounds( ) {
3      new ArrayList<Object>( ).get(1);
4  }

```

**Q2.** Are marker or tag interfaces like `Serializable`, `Runnable`, etc obsolete with the advent of annotations (i.e. runtime

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annotations)?

**A2.** Everything that can be done with a marker or tag interfaces in earlier versions of Java can now be done with annotations at runtime using reflection. One of the common problems with the marker or tag interfaces like Serializable, Cloneable, etc is that when a class implements them, all of its subclasses inherit them as well whether you want them to or not. You cannot force your subclasses to unimplement an interface. Annotations can have parameters of various kinds, and they're much more flexible than the marker interfaces. This makes tag or marker interfaces obsolete, except for

— In the very rare event of the profiling indicating that the runtime checks are expensive due to being accessed very frequently, and compile-time checks with interfaces is preferred.

— In the event of existing marker interfaces like Serializable, Cloneable, etc are used or Java 5 or later versions cannot be temporarily used.

**Q3.** What is an annotation, and why are they so popular and used in every framework like Spring, JAX-RS (i.e RESTful web service), JEE 6, and a lot more? When will you favor XML based meta data over annotations based meta data?

**A3.** One word to explain Annotation is Metadata. Metadata is data about data. So Annotations are metadata for code. The IDEs, compilers, frameworks, and other tools read the annotations to control the behavior of the code that are annotated.

Prior to annotation (and even after) XML were extensively used for metadata, but XML is very verbose and its maintenance was becoming troublesome. Since annotations are closely coupled with the code, they are less verbose. You can define annotations for a class, method, field, etc. XML is defined separately from the code, so it is more verbose as you have to define the class name, method name, etc.

If you want to set some application wide constants and parameters XML would be a better choice because this is not

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related with any specific piece of code. If you want to expose some method as a Web service, annotation would be a better choice as it needs to be tightly coupled with that method and developer of the method must be aware of this.

Annotations: let you avoid boilerplate code under many circumstances by enabling tools to generate it from annotations in the source code. This leads to “attribute oriented” (aka declarative) programming. This eliminates the need to maintain “side files” that must be kept up to date with changes in source files.

Annotations based development relieves Java developers from the pain of cumbersome configuration. Annotations provide declarative style programming where the programmer says what should be done and tools emit the code to do it. This assists rapid application development, easier maintenance, and less likely to be bug-prone.

**In Spring’s world, an XML config (e.g myapp-applicationContext.xml) to scan for all annotations in the base-package can be defined as shown below.**

```
1 <!-- Component-Scan automatically detects annotat
2 <context:component-scan base-package="com.myapp.b
```

**A POJO is exposed as a RESTful web service with JAX-RS annotations like @Path, @Produces, @GET, @PathParam, etc.**

```
1 package com.mytutorial.webservice;
2
3 import javax.ws.rs.GET;
4 import javax.ws.rs.Path;
5 import javax.ws.rs.PathParam;
6 import javax.ws.rs.Produces;
7 import com.mytutorial.pojo.User;
8
9 @Path("userservice/1.0")
10 @Produces("application/xml")
11 public class HelloUserWebServiceImpl implements
12
13     @GET
14     @Path("/user/{userName}")
15     public User greetUser(@PathParam("userName") S
16         User user = new User();
```

```
17     user.setName(userName);
18     return user;
19 }
20
21 }
22
```

### In JEE 6 CDI (Contexts and Dependency Injection) world

You need to have at least an empty “**beans.xml**” file defined under META-INF resource folder for jar files or under WEB-INF folder for war files for DI to take effect.

```
1 <beans xmlns="http://java.sun.com/xml/ns/javaee"
2     xsi:schemaLocation="http://java.sun.com/xml/n
3
4 </beans>
5
```

and **@inject** annotation to inject dependencies.

```
1 import javax.inject.Inject;
2
3 public class MyApp {
4
5     private final HelloService helloService;
6
7     @Inject
8     public MyApp(HelloBean helloBean){
9         this.helloService = helloService;
10    }
11
12    //.....
13 }
14
```

```
1 @Default
2 public class HelloServiceImpl implements HelloSer
3
4     public void sayHello() {
5         System.out.println("say hello .....")
6     }
7 }
8
```

**Q4.** How will you go about defining a custom annotation?  
Can you give a practical example?

**A4.** Here is an example where methods annotated with the following custom **@DeadlockRetry** annotation will retry the

database operation. The annotation has the attributes *maxTries* and *tryIntervalMillis*.

```

1 package com.myapp.deadlock;
2
3 import java.lang.annotation.ElementType;
4 import java.lang.annotation.Inherited;
5 import java.lang.annotation.Retention;
6 import java.lang.annotation.RetentionPolicy;
7 import java.lang.annotation.Target;
8
9 @Retention(RetentionPolicy.RUNTIME)
10 @Target(ElementType.METHOD)
11 @Inherited
12 public @interface DeadlockRetry
13 {
14     int maxTries() default 10;
15     int tryIntervalMillis() default 1000;
16 }
17
18

```

The above custom annotation is annotated with **@Retention** to tell that it is used at run-time, and **@Target** to tell that it is for methods.

**Q.** Now, who processes this annotation?

**A.** The following **dynamic proxy** class that uses reflection to see if a method is annotated with **@DeadlockRetry**. If does, retries the database method call.

```

1 package com.myapp.deadlock;
2
3 import java.lang.annotation.Annotation;
4 import java.lang.reflect.InvocationHandler;
5 import java.lang.reflect.Method;
6
7 public class DeadlockRetryHandler implements Inv
8 {
9     private Object target;
10
11     public DeadlockRetryHandler(Object target)
12     {
13         this.target = target;
14     }
15
16     @Override
17     public Object invoke(Object proxy, Method me
18     {
19         Annotation[] annotations = method.getAnn
20         DeadlockRetry deadlockRetry = (DeadlockR
21
22         final Integer maxTries = deadlockRetry.m
23         long tryIntervalMillis = deadlockRetry.t
24

```

```

25     int count = 0;
26
27     do
28     {
29         try
30         {
31             count++;
32             Object result = method.invoke(target);
33             return result;
34         }
35         catch (Throwable e)
36         {
37             if (!DeadlockUtil.isDeadLock(e))
38             {
39                 throw new RuntimeException(e);
40             }
41
42             if (tryIntervalMillis > 0)
43             {
44                 try
45                 {
46                     Thread.sleep(tryInterval);
47                 }
48                 catch (InterruptedException e)
49                 {
50                     System.out.println("DeadlockRetry");
51                 }
52             }
53         }
54     }
55     while (count <= maxTries);
56
57     //gets here only when all attempts have failed
58     throw new RuntimeException("DeadlockRetry: " +
59         "due to deadlock in all retry attempts. " +
60         new DeadlockDataAccessException(e));
61 }
62 }
63

```

The *DeadlockUtil* class determines if the exception is related to deadlock or other SQL exception based on error code and exception type like "LockAcquisitionException".

**Now define the target object interface with the custom annotation.** The maxTries = 10, tryIntervalMillis = 5000.

```

1  package com.myapp.engine;
2
3  import com.myapp.DeadlockRetry;
4
5  public interface AccountServicePersistenceDelegation
6  {
7      @DeadlockRetry(maxTries = 10, tryIntervalMillis = 5000)
8      abstract Account getAccount(String accountNumber);
9  }
10

```

**Q5.** What are some of the JAX-RS (i.e RESTful) web service annotations?

**A5.** **@GET**, **@POST**, **@PUT**, **@DELETE** to specify what type of verb this method (or web service) will perform.

**@Produces** to specify the type of output this method (or web service) will produce.

**@Consumes** to specify the MIME media types a REST resource can consume.

**@Path** to specify the URL path on which this method will be invoked.

**@PathParam** to bind REST style parameters to method arguments.

**@QueryParam** to access parameters in query string (http://localhost:8080/context/accounting-services?accountName=PeterAndCo).

Another example for custom annotation would be for service retry.

**Q6.** What are some of the widely used Spring annotations?

**A6.** The Spring beans can be wired either by name or type.

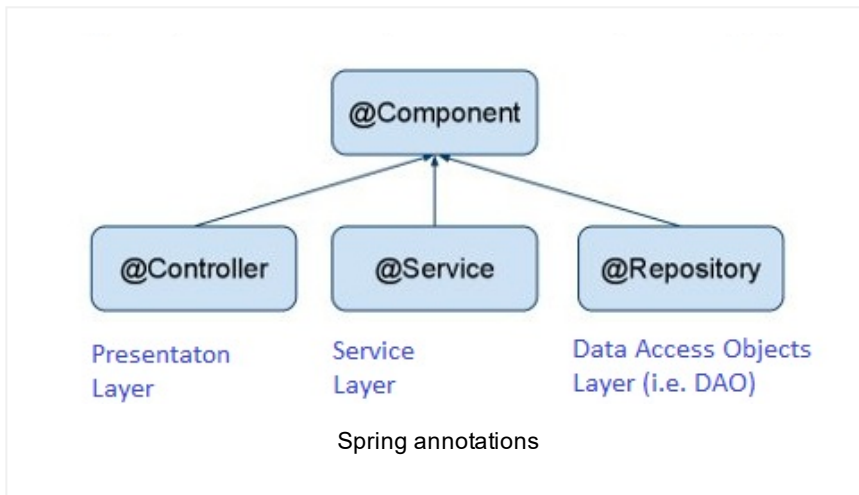
**@Autowired** by default is a type driven injection.

**@Autowired** is Spring annotation, while **@Inject** is a JEE CDI annotation. **@Inject** is equivalent to **@Autowired** or

**@Autowired(required=true)**. **@Qualifier** spring annotation can be used to further fine-tune auto-wiring. There may be a situation when you create more than one bean of the same type and want to wire only one of them with a property, in such case you can use **@Qualifier** annotation along with **@Autowired** to remove the confusion by specifying which exact bean will be wired.

The different POJO objects in different layers are annotated with one of the following key annotations.





**@Component** is the parent annotation from which the other annotations like **@Service**, **@Resource**, **@Repository** etc are defined. Here is an example of a DAO class annotated with **@Repository**, and **@Resource** is used to inject “jdbcTemplateSybase” with which the database calls are made.

```

1  @Repository(value = "myapp_Dao")
2  public class CashForecastDaoImpl implements Cash
3  {
4
5      @Resource(name = "myapp_JdbcTemplate")
6      private JdbcTemplate jdbcTemplateSybase; //co
7
8      public PortfolioSummaryVO retrievePortfolio
9          //.....use jdbcTemplateSybase
10     }
11 }
12 }

```

The annotations shown above allow you to declare beans that are to be picked up by autoscanning with or **@ComponentScan**.

The **@Configuration** annotation was designed as the replacement for XML configuration files. You use **@Bean** annotation to wire up dependencies. Here is an example.

```

1  package com.myapp.bdd.stories;
2
3  import com.myapp.*;
4
5  import org.powermock.api.mockito.PowerMockito;
6  import org.springframework.context.annotation.Be
7  import org.springframework.context.annotation.Co

```

```

8  import org.springframework.context.annotation.Co
9  import org.springframework.context.annotation.Fi
10 import org.springframework.context.annotation.Im
11
12 @Configuration
13 //packages and components to scan and include
14 @ComponentScan(
15     basePackages =
16     {
17         "com.myapp.calculation.bdd",
18         "com.myapp.refdata",
19         "com.myapp.dm.dao"
20     },
21     useDefaultFilters = false,
22     //interfaces
23     includeFilters =
24     {
25         @ComponentScan.Filter(type = FilterT
26         @ComponentScan.Filter(type = FilterT
27         @ComponentScan.Filter(type = FilterT
28         @ComponentScan.Filter(type = FilterT
29
30         @ComponentScan.Filter(type = FilterT
31     })
32 //import other config classes
33 @Import(
34 {
35     StepsConfig.class,
36     DataSourceConfig.class,
37     JmsConfig.class,
38     PropertiesConfig.class
39 })
40 }
41 public class StoryConfig
42 {
43     //creates a partially mocked transaction ser
44     @Bean(name = "txnService")
45     public TransactionService getTransactionServ
46     {
47         return PowerMockito.spy(new TransactionS
48     }
49 }
50

```

**Q7.** What are some of the widely used JEE CDI annotations?

**A7.** CDI is one of the biggest promises of JEE 6.

**@Default**, **@Alternative**, and **@Name**: A class is **@Default** by default. Thus marking it a redundant annotation. Mark as **@Alternative** to annotate the alternative implementations that implement the same interface. Use the **@Named** annotation to look up by name. The **@Named** annotation is also used by JEE 6 application to make the bean accessible via the Unified EL.

## The interface

```

1 public interface PaymentService {
2     public void processPayment(BigDecimal amount,
3 }

```

The **default** implementation

```

1 @Default
2 public class CashPaymentServiceImpl implements Pa
3     public void processPayment(BigDecimal amount,
4         //.....
5     }
6 }
7

```

An **alternative** implementation

```

1 @Alternative
2 public class BPayPaymentServiceImpl implements Pa
3     public void processPayment(BigDecimal amount,
4         //.....
5     }
6 }

```

```

1 @Alternative
2 public class CreditCardPaymentServiceImpl impleme
3     public void processPayment(BigDecimal amount,
4         //.....
5     }
6 }

```

An alternative can be selected via XML based deployment files in {classpath}/META-INF/beans.xml

```

1 <beans xmlns="http://java.sun.com/xml/ns/javaee"
2     xsi:schemaLocation="http://java.sun.com/xml/n
3     <alternatives>
4         <class>BPayPaymentServiceImpl</class>
5     </alternatives>
6 </beans>
7

```

A **named** implementation

```

1 @Named("cash")
2 public class CashPaymentServiceImpl implements Pa
3     public void processPayment(BigDecimal amount,
4         //.....
5     }

```

```
6 }
```

Named annotations can be looked up via the JEE bean container.

```
1 public class PaymentMain {
2     //...
3
4     public static void main(String[] args) throw
5         PaymentService svc = (PaymentService) be
6             .getBeanByName("cash");
7
8         svc.processPayment(new BigDecimal("9.00")
9     }
10
11 }
```

**@Inject** to inject via fields and constructors.

```
1 public class PaymentMain {
2
3     @Inject
4     private PaymentService paymentService;
5     //...
6 }
```

```
1 public class PaymentMain {
2
3     private PaymentService paymentService;
4
5     @Inject
6     public PaymentMain(PaymentService paymentSer
7         this. paymentService = paymentService;
8     }
9
10     //....
11 }
```

**@Produces** for more complex object construction via **factory methods**.

```
1 import javax.enterprise.inject.Produces;
2
3 public class PaymentFactory {
4
5     @Produces
6     public PaymentService createPaymentService()
7         return new CashPaymentServiceImpl();
8     }
9     //....
10 }
11 }
```

**@Qualifier** is required when an interface has multiple implementations to choose the one you want to inject. All objects and producers in CDI have qualifiers. If you do not assign a qualifier, by default has the qualifier **@Default** and **@Any**. So, if you don't specify a qualifier, you will be assigned one.

Meta meta annotations to define a qualifier

```

1 import java.lang.annotation.Retention;
2 import java.lang.annotation.Target;
3 import static java.lang.annotation.ElementType.*
4 import static java.lang.annotation.RetentionPoli
5
6 import javax.inject.Qualifier;
7
8 @Qualifier
9 @Retention(RUNTIME)
10 @Target({TYPE, METHOD, FIELD, PARAMETER})
11 public @interface BPay {
12
13 }
```

```

1 import java.lang.annotation.Retention;
2 import java.lang.annotation.Target;
3 import static java.lang.annotation.ElementType.*
4 import static java.lang.annotation.RetentionPoli
5
6 import javax.inject.Qualifier;
7
8 @Qualifier
9 @Retention(RUNTIME)
10 @Target({TYPE, METHOD, FIELD, PARAMETER})
11 public @interface CreditCard {
12
13 }
```

Use the qualifier annotations

```

1 @BPay
2 public class BPayPaymentServiceImpl implements Pa
3     public void processPayment(BigDecimal amount,
4         //.....
5     }
6 }
```

```

1 @CreditCard
2 public class CreditCardPaymentServiceImpl impleme
3     public void processPayment(BigDecimal amount,
4         //.....
5     }
```

```
6 }
```

BPay is injected

```
1 public class PaymentMain {
2
3     private PaymentService paymentService;
4
5     @Inject
6     public PaymentMain(@BPay PaymentService paym
7         this.paymentService = paymentService;
8     }
9
10    //....
11 }
```

Multiple types can be injected into the same bean

```
1 public class PaymentMain {
2     //...
3
4     @Inject @BPay
5     private PaymentService bpayService;
6
7     @Inject @CreditCard
8     private PaymentService ccService;
9
10    private PaymentService paymentService;
11
12    //....
13
14    @PostConstruct
15    protected void init() {
16        if(account.isBPay()) {
17            this.paymentService = this.bpayService;
18        }
19        else {
20            this.paymentService = this.ccService;
21        }
22    }
23 }
24 }
```

**Note:** @PostConstruct annotation is used to decide which service to use. Alternatively, you can use a factory method with **@Produces** annotation.

```
1 @Produces
2 public PaymentService createPayment (@BPay Payme
3                                     @CreditCard PaymentServi
4
5     if (account.isBPay()) {
6         return bpayService;
7     } else {
```

```
8         return ccService;
9     }
10 }
```

**Q8.** How would you unit test CDI with JUnit?

**A8.** **@RunWith** annotation and pass "CdiRunner.class".

```
1 @RunWith(CdiRunner.class)
2 class PaymentServiceTest {
3     @Inject
4     PaymentService paymentService;
5     //.....
6 }
```

There are other annotations like **@AdditionalClasses**, **@AdditionalPackages**, **@AdditionalClasspath**, **@Produces**, **@EnabledAlternatives**, **@ProducesAlternative**, etc and scoping annotations like **@InRequestScope**, **@InSessionScope**, and **@InConversationScope**.

**Q9.** In Servlet 3.0, why is configuring your servlet via deployment descriptor file web.xml optional?

**A9.** Servlets 3.0 have come up with a set of new Annotations for the declarations of Servlet Mappings, Init-Params, Listeners, and Filters to make the code more readable by making the use of Deployment Descriptor (web.xml) absolutely optional.

```
1 @WebServlet(
2     asyncSupported = false,
3     name = "AccountingServlet",
4     urlPatterns = { "/account" },
5     initParams = {
6         @WebInitParam(name = "param1", value = "valu
7         @WebInitParam(name = "param2", value = "valu
8     }
9 )
10 public class AccountingServlet extends HttpServlet
11     //...
12 }
13 }
```

Servlet filters, listeners, etc can be configured with annotations.

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