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# 04: 5 JAXB interview Questions & Answers

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**Q1.** What does JAXB stand for? What is an XML Binding?

**A1.** JAXB means Java API for Xml Binding. XML binding maps an XML to in-memory Java objects. The principle advantage of using JAXB when marshalling and demarshalling XML is that it simplifies the programming model by allowing us to simply annotate a few POJOs and use the JAXB API's and you can serialise to XML and

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deserialise from XML very easily. This makes it much simpler than alternatives such as DOM and SAX.

**Q2.** Why use JAXB?

**A2.** JAXB is a reference interface for which you can have a number of different implementations like default reference implementation shipped JDK6, JaxMeAPI, MOXy, Metro, etc. JAXB is available in JDK6 onwards, so it doesn't require any external library and it doesn't require a XML schema to work. XML schema is optional. Easy to use as you can use annotations on your model classes. It is supported by RESful frameworks like Jersey, Spring MVC, RESTEasy, etc.

Here is an example of Unmarshalling XML to Java object:

**Step 1:** Sample XML to unmarshall

```
1 <employee>
2   <id>123</id>
3   <name>Peter</name>
4 </employee>
5
```

**Step 2:** POJO with JAXB annotations.

```
1 import javax.xml.bind.annotation.XmlRootElement;
2
3 @XmlRootElement
4 public class Employee
5 {
6
7     private Integer id;
8     private String name;
9
10    //JAXB requires a default constructor.
11    private Employee(){}
12
13    public Employee(Integer id, String name)
14    {
15        super();
16        this.id = id;
17        this.name = name;
18    }
19
20    public Integer getId()
21    {
22        return id;
23    }
24
25    public void setId(Integer id)
```

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```

26     {
27         this.id = id;
28     }
29
30     public String getName()
31     {
32         return name;
33     }
34
35     public void setName(String name)
36     {
37         this.name = name;
38     }
39
40     @Override
41     public String toString()
42     {
43         return "Person [id=" + id + ", name=" +
44     }
45 }
46

```

**Step 3:** The JAXB unmarshaller utility class that can be used to

```

1  import java.io.StringReader;
2  import javax.xml.bind.JAXBContext;
3  import javax.xml.bind.JAXBException;
4  import javax.xml.bind.Unmarshaller;
5  import javax.xml.transform.stream.StreamSource;
6
7  public class JAXBUnmarshaller
8  {
9      public Object unmarshalObject(Class<?> class
10      {
11          Object object = new Object();
12          try
13          {
14              StringReader stringReader = new Stri
15              StreamSource streamSource = new Stre
16
17              JAXBContext jaxbContext = JAXBContex
18
19              Unmarshaller unMarshaller = jaxbCont
20              object = unMarshaller.unmarshal(stre
21              return object;
22          }
23          catch (JAXBException e)
24          {
25              e.printStackTrace();
26              throw new RuntimeException("Error un
27          }
28      }
29  }
30

```

**Step 4:** The main class that unmarshalls XML string to Employee object.

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```
1 public class Test
2 {
3
4     private static final String XML_STRING = "<e
5         <id>123</id>\r\n" +
6         <name>Peter</name>\r\n" +
7         "</employee>";
8
9     public static void main(String[] args)
10    {
11        JAXBUnmarshaller unmarshaller = new JAXBUnmarshaller
12        Employee unmarshalObject = (Employee) unmarshaller.unmarshal(xmlString);
13        System.out.println(unmarshalObject);
14    }
15 }
16
```

Similar approach can be used for marshaling.

**Q3.** Can you create your Java objects from XSDs?

**A3.** Yes, you can by binding a schema. Binding a schema means generating a set of Java classes that represents the schema. All JAXB implementations provide a tool called a binding compiler to bind a schema (the way the binding compiler is invoked can be implementation-specific).

```
1 xjc.sh -p myapp13.model employee.xsd -d work
```

The -p option identifies a package for the generated classes, and the -d option identifies a target directory. So for this command, the classes are packaged in myapp13.model within the work directory. In response, the binding compiler generates a set of interfaces and a set of classes that implement the interfaces. The ObjectFactory.java is generated containing methods for generating instances of the interfaces.

**Q4.** Why would be the motivating factor to use MOXy implementation of JAXB as opposed to the default implementation provided by the JDK6 implementation?

**A4.** Using the @XmlPath annotation and other extensions provided by MOXy will make your implementation cleaner.

**Step 1:** You need to bring in the **MOXy** implementation via maven pom.xml file

```
1 <dependency>
2   <groupId>org.eclipse.persistence</groupId>
3   <artifactId>eclipselink</artifactId>
4   <version>2.3.2</version>
5 </dependency>
6
```

**Step 2:** Tell JAXB to use MOXy via **jaxb.properties** file and place it on where the POJOs like Employee is packaged.

```
1 javax.xml.bind.context.factory=org.eclipse.persis
```

**Step 3:** You will only need Employee.java and Department.java will no longer required. Thanks to the power of annotation `@XmlPath("faculty/name/text()")`. Here is the revised Employee.java unmarshalling the same XML file with within employee.

```
1 import javax.xml.bind.annotation.XmlAccessType;
2 import javax.xml.bind.annotation.XmlAccessorType;
3 import javax.xml.bind.annotation.XmlRootElement;
4 import org.eclipse.persistence.oxm.annotations.X
5
6 @XmlRootElement
7 @XmlAccessorType(XmlAccessType.FIELD)
8 public class Employee
9 {
10
11     private Integer id;
12     private String name;
13
14     @XmlPath("faculty/name/text()")
15     private String departmentName;
16
17     public Integer getId()
18     {
19         return id;
20     }
21
22     public void setId(Integer id)
23     {
24         this.id = id;
25     }
26
27     public String getName()
28     {
29         return name;
30     }
31
32     public void setName(String name)
33     {
34         this.name = name;
35     }
36
```

```
37 protected String getDepartmentName() {
38     return departmentName;
39 }
40
41 @Override
42 public String toString() {
43     return "Employee [id=" + id + ", name=" + name
44 }
45 }
46 }
```

**Q5.** Can you use JAXB to marshal and unmarshal JSON objects?

**A5.** Yes. If You are using MOXy library, then you can specify a JSON mrshaling and unmarshling library like **Jackson** or **Jettison**. Here is an example with the Jettison library.

**Step 1:** JSON string. XML equivalent JSON is more concise.

```
1 {"Employee": {"id": "123", "name": "Peter"}}
```

**Step 2:** Jettison with JAXB library.

```
1 import javax.xml.bind.*;
2 import javax.xml.stream.XMLStreamReader;
3 import org.codehaus.jettison.json.JSONObject;
4 import org.codehaus.jettison.mapped.*;
5
6 public class UnmarshalDemo {
7
8     public static void main(String[] args) throw
9         JAXBContext jc = JAXBContext.newInstance
10
11         JSONObject obj = new JSONObject("{\"Empl
12         Configuration config = new Configuration
13         MappedNamespaceConvention con = new Mapp
14         XMLStreamReader xmlStreamReader = new Ma
15
16         Unmarshaller unmarshaller = jc.createUnm
17         Employee employee = (Employee) unmarsh
18
19         Marshaller marshaller = jc.createMarshal
20         marshaller.setProperty(Marshaller.JAXB_F
21         marshaller.marshal(employee, System.out)
22     }
23 }
24 }
```

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