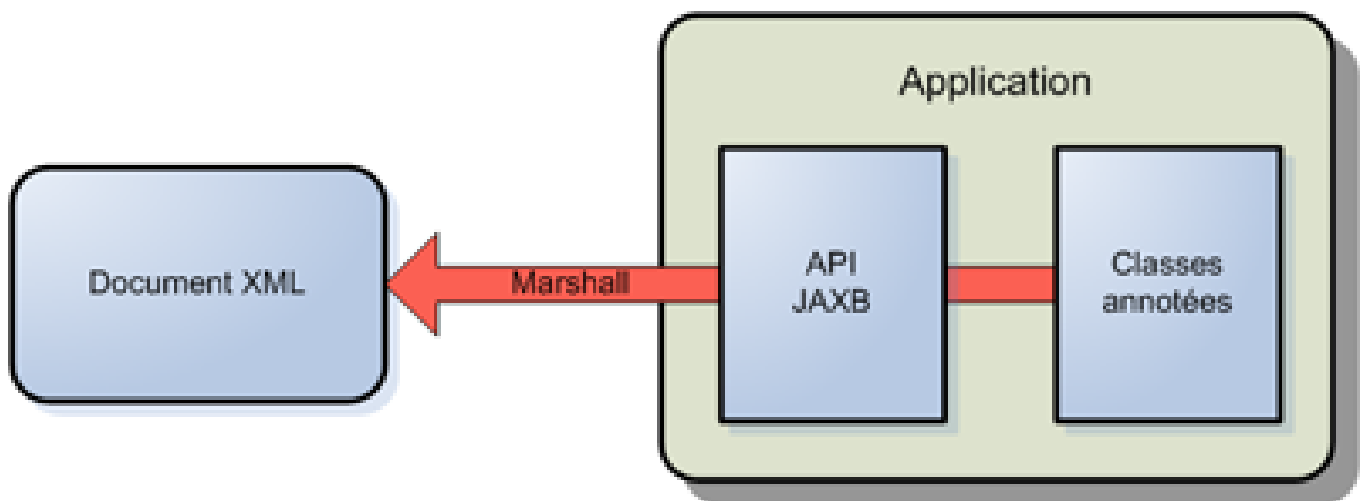


Marshaling



Créer un projet maven

Overview

Artifact

Group Id:

Artifact Id: *

Version:

Packaging:

Ajouter dans le pom.xml

```
<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
  <maven.compiler.source>11</maven.compiler.source>
  <maven.compiler.target>11</maven.compiler.target>
</properties>

<dependencies>
  <dependency>
    <groupId>org.jvnet.jaxb2.maven2</groupId>
    <artifactId>maven-jaxb2-plugin</artifactId>
    <version>0.14.0</version>
  </dependency>
</dependencies>
```

Créer la classe Book

```
1 package com.formation;
2
3 import javax.xml.bind.annotation.XmlElement;
4 import javax.xml.bind.annotation.XmlRootElement;
5 import javax.xml.bind.annotation.XmlType;
6
7 @XmlRootElement
8 @XmlType(propOrder = {"author", "name", "publisher", "isbn"}) // ordre
9 public class Book {
10
11     private String name;
12     private String author;
13     private String publisher;
14     private String isbn;
15
16     @XmlElement(name = "bookName") // changer nom
17     public String getName() {
18         return name;
19     }
20     public void setName(String name) {
21         this.name = name;
22     }
23     public String getAuthor() {
24         return author;
25     }
26     public void setAuthor(String author) {
27         this.author = author;
28     }
29     public String getPublisher() {
30         return publisher;
31     }
32     public void setPublisher(String publisher) {
33         this.publisher = publisher;
34     }
35     public String getIsbn() {
36         return isbn;
37     }
38     public void setIsbn(String isbn) {
39         this.isbn = isbn;
40     }
41 }
```

Créer la classe BookStore

```
1 package com.formation;
2
3 import java.util.List;
4
5 import javax.xml.bind.annotation.XmlElement;
6 import javax.xml.bind.annotation.XmlElementWrapper;
7 import javax.xml.bind.annotation.XmlRootElement;
8
9 @XmlRootElement(namespace = "com.formation.jaxb")
10 public class Bookstore {
11
12     // pas de getter
13
14     @XmlElementWrapper(name = "booklist") // wrapper
15     @XmlElement(name = "book") // nom de l'attribut
16     private List<Book> booklist;
17
18     private String name;
19     private String location;
20
21
22     public void setBooklist(List<Book> booklist) {
23         this.booklist = booklist;
24     }
25
26     public void setName(String name) {
27         this.name = name;
28     }
29
30     public void setLocation(String location) {
31         this.location = location;
32     }
33 }
```

Tester

```
1 package com.formation;
2     Marshalling/src/main/java/com/formation/Book.java
3 import java.io.File;
4 import java.util.ArrayList;
5 import java.util.List;
6
7 import javax.xml.bind.JAXBContext;
8 import javax.xml.bind.JAXBException;
9 import javax.xml.bind.Marshaller;
10
11 public class BookMain {
12
13     private static final String BOOKSTORE_XML = "books.xml";
14
15     public static void main(String[] args) throws JAXBException {
16         List<Book> bookList = new ArrayList<Book>();
17
18         // create books
19         Book book1 = new Book();
20         book1.setIsbn("978-0060554736");
21
22         book1.setAuthor("Neil Strauss");
23         book1.setPublisher("Harpercollins");
24         bookList.add(book1);
25
26         Book book2 = new Book();
27         book2.setIsbn("978-3832180577");
28         book2.setName("Feuchtgebiete");
29         book2.setAuthor("Charlotte Roche");
30         book2.setPublisher("Dumont Buchverlag");
31         bookList.add(book2);
32
33         // create Bookstore
34         Bookstore bookstore = new Bookstore();
35         bookstore.setName("Librairie 4 vents");
36         bookstore.setLocation("Paris");
37         bookstore.setBooklist(bookList);
38
39         // Jaxb context et intanciate marshaller
40         JAXBContext context = JAXBContext.newInstance(Bookstore.class);
41         Marshaller m = context.createMarshaller();
42         m.setProperty(Marshaller.JAXB_FORMATTED_OUTPUT, Boolean.TRUE);
43
44         // Write to System.out
45         m.marshal(bookstore, System.out);
46
47         // Write to File
48         m.marshal(bookstore, new File(BOOKSTORE_XML));
49     }
50 }
```

Nous obtenons

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<ns2:bookstore xmlns:ns2="com.fomation.jaxb">
  <booklist>
    <book>
      <author>Neil Strauss</author>
      <publisher>Harpercollins</publisher>
      <isbn>978-0060554736</isbn>
    </book>
    <book>
      <author>Charlotte Roche</author>
      <bookName>Feuchtgebiete</bookName>
      <publisher>Dumont Buchverlag</publisher>
      <isbn>978-3832180577</isbn>
    </book>
  </booklist>
</ns2:bookstore>
```