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XML example with Jersey + JAXB

By mkyong (<https://www.mkyong.com/author/mkyong/>) | July 19, 2011 | Updated : August 29, 2012 | Viewed : 86,393 times +202 pv/w

This tutorial show you how to use JAXB to convert **object to XML in Jersey**, and return it back to user.

1. Dependency

To integrate JAXB with Jersey, no extra dependency is required. Just include “**jersey-server.jar**” will do.



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2. JAXB Annotation

Annotate object with JAXB annotation, for conversion later.

```
import javax.xml.bind.annotation.XmlAttribute;
import javax.xml.bind.annotation.XmlElement;
import javax.xml.bind.annotation.XmlRootElement;

@XmlRootElement(name = "customer")
public class Customer {

    String name;
    int pin;

    @XmlElement
    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    @XmlAttribute
    public int getPin() {
        return pin;
    }

    public void setPin(int pin) {
        this.pin = pin;
    }
}
```

Above object will convert into following XML format.

```
<customer pin="value">
  <name>value</name>
</customer>
```



3. Jersey and XML

To return a XML file, annotate the method with `@Produces(MediaType.APPLICATION_XML)`. Jersey will convert the JAXB annotated object into XML file automatically.

```
import javax.ws.rs.GET;
import javax.ws.rs.Path;
import javax.ws.rs.PathParam;
import javax.ws.rs.Produces;
import javax.ws.rs.core.MediaType;
import com.mkyong.Customer;

@Path("/xml/customer")
public class XMLService {

    @GET
    @Path("/{pin}")
    @Produces(MediaType.APPLICATION_XML)
    public Customer getCustomerInXML(@PathParam("pin") int pin) {

        Customer customer = new Customer();
        customer.setName("mkyong");
        customer.setPin(pin);

        return customer;
    }
}
```

4. Demo

When URI pattern "`xml/customer/{param value}`" is requested, a formatted XML file will be returned.

URL : `http://localhost:8080/RESTfulExample/rest/xml/customer/999`



Download Source Code

Download it – XML-Support-Jersey-Example.zip (<http://www.mkyong.com/wp-content/uploads/2011/07/XML-Support-Jersey-Example.zip>) (6 KB)

References

1. JAXB Official Website (<http://jaxb.java.net/>)
2. XML support in Jersey (<http://jersey.java.net/nonav/documentation/latest/xml.html>)

Tags : [integration \(https://www.mkyong.com/tag/integration/\)](https://www.mkyong.com/tag/integration/) [jaxb \(https://www.mkyong.com/tag/jaxb/\)](https://www.mkyong.com/tag/jaxb/)
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mkyong

Founder of Mkyong.com (<http://mkyong.com>), love Java and open source stuff. Follow him on Twitter (<https://twitter.com/mkyong>), or befriend him on Facebook (<http://www.facebook.com/java.tutorial>) or Google Plus (<https://plus.google.com/110948163568945735692?rel=author>). If you like my tutorials, consider make a donation to these charities (<http://www.mkyong.com/blog/donate-to-charity/>).


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Amber

Any advice on how to set this up in terms of dependencies or registering any features? I'm getting an exception:
org.glassfish.jersey.message.internal.MessageBodyProviderNotFoundException: MessageBodyWriter not found for media
type=application/xml



11 months 1 day ago



Hashim

Hello did you got the answer for the issue?

Guest



7 months 18 days ago



Jesse Zhou

Instead of manually creating the values, how can you get the values from a API/URI?

Guest



11 months 1 day ago



varun

how to convert xml to java object example in jersey

Guest



1 year 3 months ago



JAX-RS TUTORIALS | BUYWORKSELL

(http://buyworksell.com/2013/11/27/jax-rs-tutorials/)

[...] XML example with Jersey + JAXB Jersey + JAXB to map object to and from XML. [...]



4 years 27 days ago



Rajvi

Hi,
I found this tutorials very helpful,
but I have a question that
suppose I want this kind of output for xml than how can I do???

means I want attributes in subelement using ur technique to generate xml automatically..
I know how to generate it manually.

Guest



4 years 5 months ago



Rajvi

```
#customer pin="value"#
#Name name="name"/#
#customer#
```

Guest



4 years 5 months ago



Manish Sharma

This can be achieved by addin reference of another class in main class (rool element for xml). Here is sample snippet of code: package org.msharma.jaxrs.jersey.I5; import javax.xml.bind.annotation.XmlAttribute; import javax.xml.bind.annotation.XmlElement; import javax.xml.bind.annotation.XmlRootElement; import javax.xml.bind.annotation.XmlValue; @XmlRootElement(name="student") public class Student2 { private int id; private Firstname firstName; private String lastName; private int age; public Student2(){} } public Student2(String firstname, String lastName, int age, int id){ firstName= new Firstname(); firstName.setFname(firstname); firstName.setDesc(""+id); this.lastName = lastName; this.age = age; this.id = id; } public int getId() { return id; } @XmlAttribute(name="id") public void setId(int id) { this.id = id; } public String getLastName() { return lastName;... Read more »

Guest



2 years 2 months ago



TT

Your example is always simple and easy to understand, very good for beginners, thanks.

Guest



4 years 5 months ago



Maurizio

Great example. Thank you very much.

Guest



4 years 7 months ago



Kunal Handa

Desired output. Please see my first comment.

Guest



4 years 7 months ago



Kunal Handa

Hi,
How I can Choose to return only specific fields instead of complete Bean?
e.g. In above example how can I return only below output?

though my bean has 2 members, I want to return only one (pin) but not name?
Is it possible?

Thanks
Kunal Handa

Guest



4 years 7 months ago



John Sc

Very helpful, thank you!

Guest



5 years 2 days ago



avi_yach

How can we reply a list containing objects instead of a single object? I am a newbie to this technology, help of any sort is appreciated :)
Thanks in advanced.

Guest



5 years 7 months ago



George

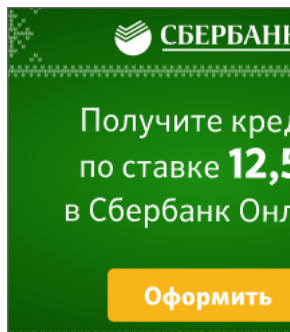
How would you use a post method on the client side? to post xml, I only find post json.

Guest


Thanks



6 years 1 month ago







Mkyong
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