



JSON example with Jersey + Jackson

By mkyong (<http://www.mkyong.com/author/mkyong/>) | July 19, 2011 | Updated : August 29, 2012 | Viewed : 655,952 times +2,002 pv/w

Jersey uses Jackson to convert **object to / form JSON**. In this tutorial, we show you how to convert a "Track" object into JSON format, and return it back to user.

1. Dependency

To make Jersey support JSON mapping, declares "jersey-json.jar" in Maven pom.xml file.

```
<dependency>
  <groupId>com.sun.jersey</groupId>
  <artifactId>jersey-server</artifactId>
  <version>1.8</version>
</dependency>

<dependency>
  <groupId>com.sun.jersey</groupId>
  <artifactId>jersey-json</artifactId>
  <version>1.8</version>
</dependency>
```

Note

Review the downloaded dependencies in your project classpath, Jackson and related libraries are included.



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2. Integrate JSON with Jersey

In web.xml, declares "com.sun.jersey.api.json.POJOMappingFeature" as "init-param" in Jersey mapped servlet. It will make Jersey support JSON/object mapping.

```
<init-param>
  <param-name>com.sun.jersey.api.json.POJOMappingFeature</param-name>
  <param-value>true</param-value>
</init-param>
```

File : web.xml – full example.

```

<web-app ...>

  <servlet>
    <servlet-name>jersey-servlet</servlet-name>
    <servlet-class>com.sun.jersey.spi.container.servlet.ServletContainer</servlet-class>
    <init-param>
      <param-name>com.sun.jersey.config.property.packages</param-name>
      <param-value>com.mkyong.rest</param-value>
    </init-param>
    <init-param>
      <param-name>com.sun.jersey.api.json.POJOMappingFeature</param-name>
      <param-value>true</param-value>
    </init-param>
    <load-on-startup>1</load-on-startup>
  </servlet>

  <servlet-mapping>
    <servlet-name>jersey-servlet</servlet-name>
    <url-pattern>/rest/*</url-pattern>
  </servlet-mapping>

</web-app>

```

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3. Simple Object

A simple "Track" object, later Jersey will convert it into JSON format.

```

package com.mkyong;

public class Track {

    String title;
    String singer;

    public String getTitle() {
        return title;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public String getSinger() {
        return singer;
    }

    public void setSinger(String singer) {
        this.singer = singer;
    }

    @Override
    public String toString() {
        return "Track [title=" + title + ", singer=" + singer + "]";
    }

}

```

4. JAX-RS with Jersey

Annotate the method with `@Produces(MediaType.APPLICATION_JSON)` Jersey will use Jackson to handle the JSON conversion automatically.

```
package com.mkyong.rest;

import javax.ws.rs.Consumes;
import javax.ws.rs.GET;
import javax.ws.rs.POST;
import javax.ws.rs.Path;
import javax.ws.rs.Produces;
import javax.ws.rs.core.MediaType;
import javax.ws.rs.core.Response;

import com.mkyong.Track;

@Path("/json/metallica")
public class JSONService {

    @GET
    @Path("/get")
    @Produces(MediaType.APPLICATION_JSON)
    public Track getTrackInJSON() {

        Track track = new Track();
        track.setTitle("Enter Sandman");
        track.setSinger("Metallica");

        return track;
    }

    @POST
    @Path("/post")
    @Consumes(MediaType.APPLICATION_JSON)
    public Response createTrackInJSON(Track track) {

        String result = "Track saved : " + track;
        return Response.status(201).entity(result).build();
    }
}
```

5. Demo

See demo for GET and POST request.

1. GET method

When URI pattern **`/json/metallica/get`** is requested, the Metallica classic song "Enter Sandman" will be returned in JSON format.

```
{
  "singer": "Metallica",
  "title": "Enter Sandman"
}
```



2. POST method

To test post request, you can create a RESTful client (refer to this Jersey client APIs example (<http://www.mkyong.com/webservices/jax-rs/restful-java-client-with-jersey-client/>)), and "post" the json format string to URI pattern **`/json/metallica/post`**, the posted json string will be converted into "Track" object automatically.

Download Source Code

Download it – JSON-Support-Jersey-Example.zip (<http://www.mkyong.com/wp-content/uploads/2011/07/JSON-Support-Jersey-Example.zip>) (7 KB)

References

1. Jackson Official Website (<http://jackson.codehaus.org/>)
2. JSON Support in Jersey (<http://jersey.java.net/nonav/documentation/latest/json.html>)

Tags : [integration](http://www.mkyong.com/tag/integration/) (<http://www.mkyong.com/tag/integration/>) | [jackson](http://www.mkyong.com/tag/jackson/) (<http://www.mkyong.com/tag/jackson/>) | [jax-rs](http://www.mkyong.com/tag/jax-rs/) (<http://www.mkyong.com/tag/jax-rs/>) | [jersey](http://www.mkyong.com/tag/jersey/) (<http://www.mkyong.com/tag/jersey/>) | [json](http://www.mkyong.com/tag/json/) (<http://www.mkyong.com/tag/json/>)

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A 20

B 110

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D 201

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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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Guest

What if the passing object is not simple ? Or what if you object 'Track' extending another class, And I want to pass attributes of both the classes to my web service, in a single JSON string ?

 2 [REPLY](#)

🕒 4 years 8 months ago

**Roberto Fonseca** (<http://www.rhfactor.com.br>)

Guest

Is there a way to use a JSON @PathParam to populate an Entity
`public ObjectNode getPDF(@PathParam("params") MyParameters params)`

 1 [REPLY](#)

🕒 5 months 28 days ago

**leon** (<http://linuxymontanas.blogspot.com>)

Guest

great post!!
Thanks!

 0 [REPLY](#)

🕒 26 days 6 hours ago

**Jesse Boyd**

Guest

`com.sun.jersey.spi.container.servlet.ServletContainer` is deprecated and replaced with `org.glassfish.jersey.containers` it's a bit of a mess and not well documented how to get all the new dependencies.

 0 [REPLY](#)

🕒 1 month 26 days ago

**Rodrigo Caballero**

Guest

Not actual working code anymore.
Can you update an updated version of your project?

 0 [REPLY](#)

🕒 6 months 4 days ago

**Juan**

Guest

Hello buddy, excellent info and awesome Tuto!, I have a question, I made a static example based on your knowledge, I'm getting the following structure: { "nombre": "Juan", "edad": "22", "clave": "paciente01", "padecimientos": [{ "nombrePadecimiento": "Man\u00c1a Cardiaca", "clave": "pa01" }, { "nombrePadecimiento": "Man\u00c1a Pulmonar\u00c1a", "clave": "pa02" }], "citas": [{ "fecha": "2017-01-01", "lugar": "Hospital Luz" }, { "fecha": "2017-02-02", "lugar": "Hospital Oscuridad" }] } But I'd like to send a parent name of all object. for example "Paciente", on the to of the Json. Could you help me?

 0 [REPLY](#)

🕒 6 months 25 days ago

**John steven** (<https://www.10seos.com/>)

Guest

Nice info !

 0 [REPLY](#)

🕒 11 months 19 days ago

**David Brossard**

Guest

I tried this example straight OOTB on Apache Tomcat and nothing happens at all... What am I missing?



1 year 4 months ago



Guest

Naveen Shyam Reuban

How to implement HTTP PUT ? @PUT – would it have PathParam & the data ? Can you provide an example to this newbie on JERSEY REST ?



2 years 6 months ago



Guest

Nishanth

Why are we not getting back the root element (Track) in json in response. What should we do for the json root element to be accepted in the request.



2 years 10 months ago



Guest

Auf Pathor

why?? why?? why??



3 years 5 months ago



Guest

ko000

fuck....fuck....fuck....



2 years 7 months ago



Guest

Dante Basso

Hello,

I'm trying to do something like this, but I need send a array of one object: like:

```
[{"value":"200","index":1}, {"value":"200","index":2}, {"value":"200","index":3}, {"value":"200","index":4}, {"value":"200","index":5}, {"value":"200","index":6}, {"value":"200","index":7}, {"value":"200","index":8}, {"value":"200","index":9}, {"value":"200","index":10}]
```

But in server Side I got error! How can I make the code:

@POST

@Path("/calceven")

@Consumes(MediaType.APPLICATION_JSON)

public Response calcEvenIndexes(MyNumber[] lista) {

AND

public Response calcEvenIndexes(List lista) {

And I got error: HTTP Status 415 – Unsupported Media Type

I try in both parameters this:

@Consumes(MediaType.TEXT_PLAIN)

But the erro still there...

How can resolve my problem?



3 years 8 months ago



Guest

Sanjeev Pandey (<http://java-application-programming.blogspot.in/>)

Use JSONArray. Put the map in JSONArray, you will get the expected result.

<http://java-application-programming.blogspot.in/> (<http://java-application-programming.blogspot.in/>)



3 years 8 months ago



Guest

Jason Wheeler

thanks for this, I didn't notice when trying to run the example



🕒 3 years 8 months ago



Arun

Hi Mkyong , please post the tutorial with latest version of jackson/faster xml which is 2.x

Guest



🕒 3 years 9 months ago



Avinash Kodakandla

post request not working

Guest



🕒 3 years 9 months ago



Muhammad Gelbana

(<http://mgelbana.blogspot.com/>)

Guest

Everyone should note that this tutorial is almost 4 years old. So it adheres to an old

specification and and version of Jersey.

A message to the author, would you kindly make a tutorial for a webapp (servlets only) in jersey that provides Json mapping ? I am completely lost and the user guide aren't helpful at all.



🕒 3 years 10 months ago



Matt

Why include junit in pom.xml if it's not used in the example?

Guest



🕒 4 years 13 days ago



JAX-RS TUTORIALS | BUYWORKSELL

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

[...] JSON example with Jersey + Jackson Jersey + Jackson to map object to and from JSON. [...]



🕒 4 years 29 days ago



Diego

Where is web.xml file supposed to be placed? I use Tomcat as server. Got working with NetBeans

Guest



🕒 4 years 1 month ago ^



Aryan

it already have an web.xml file created with every web application project just openit and edit.

Guest



🕒 8 months 4 days ago



Levan

Hi.

Guest

Thanks for the tutorial.

You could update the outdated link to the JSON support in Jersey page. The new link is:

<https://jersey.java.net/documentation/latest/media.html#json> (<https://jersey.java.net/documentation/latest/media.html#json>)



🕒 4 years 2 months ago



abhi

What is the "jersey-json.jar" version ?

Guest

i m facing an and error like

Jersey: No WebApplication provider is present

jersey-servlet is not able to initialize

wat is the version



4 years 2 months ago



Sushil Kumar (<http://kaysush.wordpress.com>)

Hi Mkyong

Guest

I tried this example and i'm getting `javax.ws.rs.WebApplicationException: com.sun.jersey.api.MessageException: A message body writer for Java class com.kaysush.ytgrabber.yt.DownloadResource, and Java type class com.kaysush.ytgrabber.yt.DownloadResource, and MIME media type application/json was not found exception.`

I think i'm missing some dependencies. After reading the comments i found out that i can use jersey bundle for all the dependencies but i want all of them to be separate and hence request you. Can you please provide a tentative list of all the dependencies that are required to run the above example.



4 years 3 months ago



Nikita Shah

What is the solution to your problem ?

Guest



2 years 10 months ago



Ezra

Guest

Am not sure on why this exception, but if you are facing "Message body writer" issue, add genson to your dependency, it works. for more info check <http://owlike.github.io/genson/> (<http://owlike.github.io/genson/>)

com.owlike
genson
1.3



2 years 7 months ago



bhoomi patel

Guest

Thanks for this..its saved my time



9 months 18 days ago



Sriharsha g.r.v

Guest

Thanks for pointing out.Genson is needed because,we need to tell jersey that the java class should be converted to Json by checking specifications like setter/getter classes if present or not.

Just like we need Jaxb jar(which is included in jdk 1.6) for converting Java class to xml.



9 months 19 days ago



abhi

Guest

Even i am facing the same !



4 years 2 months ago



Binh Nguyen Thanh

Guest

Thanks, this post is useful to me.



4 years 5 months ago



priya

Guest

tried the example in myeclipse ide with websphere7 and getting the below error

00000110 servlet E com.ibm.ws.webcontainer.servlet.ServletWrapper init SRVE0100E: Uncaught init() exception created by servlet jersey-servlet in application SampleProject: java.lang.NoSuchMethodError: org/objectweb/asm/ClassReader.accept(Lorg/objectweb/asm/ClassVisitor;I)V

at com.sun.jersey.spi.scanning.AnnotationScannerListener.onProcess(AnnotationScannerListener.java:133)

at com.sun.jersey.core.spi.scanning.uri.FileSchemeScanner\$1.f(FileSchemeScanner.java:86)

at com.sun.jersey.core.util.Closing.f(Closing.java:71)

at com.sun.jersey.core.spi.scanning.uri.FileSchemeScanner.scanDirectory(FileSchemeScanner.java:83)

.....

00000110 extension E com.ibm.wsspi.webcontainer.extension.WebExtensionProcessor createServletWrapper Error occured while preparing the servlet for initialization.

javax.servlet.ServletException: SRVE0207E: Uncaught initialization exception created by servlet

Added the jars- asm-all.jar, cglib-nodep,jackson and jersey jars

i removed all other conflictings asm jars still the error exists

please let me know what is wrong.



0



REPLY

🕒 4 years 6 months ago



nizar

Guest

Hello,

how post an object java from html form ?

example if i have a html form within

how can post a json to get a Track object ?



0



REPLY

🕒 4 years 6 months ago ^



priya

Guest

hope this site helps – <http://codetutur.com/2013/04/09/spring-mvc-easy-rest-based-json-services-with-responsebody/>
(<http://codetutur.com/2013/04/09/spring-mvc-easy-rest-based-json-services-with-responsebody/>)



0



REPLY

🕒 4 years 6 months ago

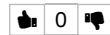


Pradip Bhatt

Guest

Really its very nice tutorial. REally appreciate..

MkYong.. reallt we are so lucky...



0



REPLY

🕒 4 years 7 months ago



Prakash

Guest

Loved these tutorials man thanks alot!.



0



REPLY

🕒 4 years 9 months ago



Jakes

Guest

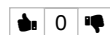
Hi Mkyong

Thanks, that was nice and simple example

Next I am trying to convert the JSON received on client side to "Track" object.

Does Jersey provide me any way to generate any client stubs/bindings/classes that I can use on client side to convert the received JSON to java object.

Thanks



0



REPLY

🕒 4 years 9 months ago



Guest

viny

I'm having the following problem can anyone give me a hand pleas..

```
java.lang.AbstractMethodError
at org.codehaus.jackson.map.AnnotationIntrospector$Pair.findDeserializer(AnnotationIntrospector.java:1335)
at org.codehaus.jackson.map.deser.BasicDeserializerFactory.findDeserializerFromAnnotation(BasicDeserializerFactory.java:675)
at org.codehaus.jackson.map.deser.BeanDeserializerFactory.createBeanDeserializer(BeanDeserializerFactory.java:535)
at org.codehaus.jackson.map.deser.StdDeserializerProvider._createDeserializer(StdDeserializerProvider.java:432)
at org.codehaus.jackson.map.deser.StdDeserializerProvider._createAndCache2(StdDeserializerProvider.java:341)
at org.codehaus.jackson.map.deser.StdDeserializerProvider._createAndCacheValueDeserializer(StdDeserializerProvider.java:321)
at org.codehaus.jackson.map.deser.StdDeserializerProvider.findValueDeserializer(StdDeserializerProvider.java:167)
at org.codehaus.jackson.map.deser.StdDeserializerProvider.findTypedValueDeserializer(StdDeserializerProvider.java:188)
at org.codehaus.jackson.map.ObjectMapper._findRootDeserializer(ObjectMapper.java:2820)
at org.codehaus.jackson.map.ObjectMapper._readValue(ObjectMapper.java:2690)
at org.codehaus.jackson.map.ObjectMapper.readValue(ObjectMapper.java:1308)
at org.codehaus.jackson.jaxrs.JsonProvider.readFrom(JsonProvider.java:419)
at com.sun.jersey.json.impl.provider.entity.JsonProviderProxy.readFrom(JsonProviderProxy.java:139)
at com.sun.jersey.spi.container.ContainerRequest.getEntity(ContainerRequest.java:488)
at
com.sun.jersey.server.impl.model.method.dispatch.EntityParamDispatchProvider$EntityInjectable.getValue(EntityParamDispatchProvider.java:123)
at com.sun.jersey.server.impl.inject.InjectableValuesProvider.getInjectableValues(InjectableValuesProvider.java:46)
at
com.sun.jersey.server.impl.model.method.dispatch.AbstractResourceMethodDispatchProvider$EntityParamInInvoker.getParams(AbstractResourceMethodDispatchProvider.java:153)
at
com.sun.jersey.server.impl.model.method.dispatch.AbstractResourceMethodDispatchProvider$VoidOutInvoker._dispatch(AbstractResourceMethodDispatchProvider.java:166)
at com.sun.jersey.server.impl.model.method.dispatch.ResourceJavaMethodDispatcher.dispatch(ResourceJavaMethodDispatcher.java:75)
at com.sun.jersey.server.impl.uri.rules.HttpMethodRule.accept(HttpMethodRule.java:302)
at com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:147)
at com.sun.jersey.server.impl.uri.rules.ResourceClassRule.accept(ResourceClassRule.java:108)
at com.sun.jersey.server.impl.uri.rules.RightHandPathRule.accept(RightHandPathRule.java:147)
at com.sun.jersey.server.impl.uri.rules.RootResourceClassesRule.accept(RootResourceClassesRule.java:84)
at com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicationImpl.java:1511)
at com.sun.jersey.server.impl.application.WebApplicationImpl._handleRequest(WebApplicationImpl.java:1442)
at com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicationImpl.java:1391)
at com.sun.jersey.server.impl.application.WebApplicationImpl.handleRequest(WebApplicationImpl.java:1381)
at com.sun.jersey.spi.container.servlet.WebComponent.service(WebComponent.java:416)
at com.sun.jersey.spi.container.servlet.ServletContainer.service(ServletContainer.java:538)
at com.sun.jersey.spi.container.servlet.ServletContainer.service(ServletContainer.java:716)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:717)
at org.mortbay.jetty.servlet.ServletHolder.handle(ServletHolder.java:511)
at org.mortbay.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1166)
at com.google.appengine.api.socket.dev.DevSocketFilter.doFilter(DevSocketFilter.java:74)
at org.mortbay.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1157)
at com.google.appengine.tools.development.ResponseRewriterFilter.doFilter(ResponseRewriterFilter.java:123)
at org.mortbay.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1157)
at com.google.appengine.tools.development.HeaderVerificationFilter.doFilter(HeaderVerificationFilter.java:34)
at org.mortbay.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1157)
at com.google.appengine.api.blobstore.dev.ServeBlobFilter.doFilter(ServeBlobFilter.java:61)
at org.mortbay.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1157)
at com.google.apphosting.utils.servlet.TransactionCleanupFilter.doFilter(TransactionCleanupFilter.java:43)
at org.mortbay.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1157)
at com.google.appengine.tools.development.StaticFileFilter.doFilter(StaticFileFilter.java:125)
at org.mortbay.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1157)
at com.google.appengine.tools.development.BackendServersFilter.doFilter(BackendServersFilter.java:97)
at org.mortbay.jetty.servlet.ServletHandler$CachedChain.doFilter(ServletHandler.java:1157)
at org.mortbay.jetty.servlet.ServletHandler.handle(ServletHandler.java:388)
at org.mortbay.jetty.security.SecurityHandler.handle(SecurityHandler.java:216)
at org.mortbay.jetty.servlet.SessionHandler.handle(SessionHandler.java:182)
at org.mortbay.jetty.handler.ContextHandler.handle(ContextHandler.java:765)
at org.mortbay.jetty.webapp.WebAppContext.handle(WebAppContext.java:418)
at com.google.appengine.tools.development.DevAppEngineWebAppContext.handle(DevAppEngineWebAppContext.java:94)
at org.mortbay.jetty.handler.HandlerWrapper.handle(HandlerWrapper.java:152)
```

```

at com.google.appengine.tools.development.JettyContainerService$ApiProxyHandler.handle(JettyContainerService.java:383)
at org.mortbay.jetty.handler.HandlerWrapper.handle(HandlerWrapper.java:152)
at org.mortbay.jetty.Server.handle(Server.java:326)
at org.mortbay.jetty.HttpConnection.handleRequest(HttpConnection.java:542)
at org.mortbay.jetty.HttpConnection$RequestHandler.content(HttpConnection.java:938)
at org.mortbay.jetty.HttpParser.parseNext(HttpParser.java:755)
at org.mortbay.jetty.HttpParser.parseAvailable(HttpParser.java:218)
at org.mortbay.jetty.HttpConnection.handle(HttpConnection.java:404)
at org.mortbay.io.nio.SelectChannelEndPoint.run(SelectChannelEndPoint.java:409)
at org.mortbay.thread.QueuedThreadPool$PoolThread.run(QueuedThreadPool.java:582)

```



🕒 4 years 10 months ago ^



Lu

Anyone fixed the java.lang.AbstractMethodError that some folks were getting with the client app I'm getting it too?

Guest



🕒 4 years 6 months ago



koo

Hi, i import ur example to workspace. But i get tis error.Please help

Guest

```

type Status report

message /RestfulExample/rest/json/metallica/post

description The requested resource (/RestfulExample/rest/json/metallica/post) is not available.

```



🕒 4 years 11 months ago ^



Manuel Loayza

I had a similar problem, but It was my classes with annotation for REsta was in other package. I modified the init-param for rest servlet as follow (add more packages separated with comma).

Guest

```

com.sun.jersey.config.property.packages
com.melg.web, com.melg.jerseydemo.web.client

```



🕒 4 years 6 months ago



joahnn

Hi,
I have the same problem, but with my integration tests.

Guest

```

<plugin>

    <groupId>org.codehaus.mojo</groupId>
    <artifactId>tomcat-maven-plugin</artifactId>
    <configuration>
        <fork>true</fork>
    </configuration>
    <executions>
        <execution>
            <id>run-tomcat</id>
            <phase>pre-integration-test</phase>
            <goals>
                <goal>run</goal>
            </goals>
        </execution>
    </executions>
</plugin>


```



🕒 4 years 8 months ago

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(<http://www.mkyong.com/webservices/jax-rs/json-example-with-jersey-jackson/#!parentId=126257>)





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