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JSON Example With Jersey + Jackson

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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.

```xml
<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 inlcuded.

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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.

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

File : web.xml - full example.

```xml
<web-app ...>

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

```
</web-app>
```

3. Simple Object

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

```java
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.

```java
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), 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 (7 KB)

References

1. Jackson Official Website
2. JSON Support in Jersey

Tags :   integration | jackson | jax-rs | jersey | json

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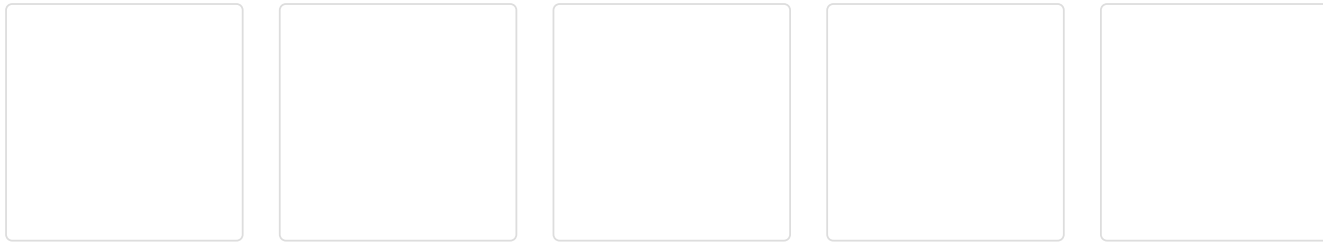▸ JSON example with RESTEasy + Jackson
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