

RESTFUL WEB SERVICES - JAVA JAX – RS

http://www.tutorialspoint.com/restful/restful_jax_rs.htm

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JAX-RS stands for JAVA API for RESTful Web Services. JAX-RS is a JAVA based programming language API and specification to provide support for created RESTful Webservices. Its 2.0 version was released in 24 May 2013. JAX-RS makes heavy use of annotations available from Java SE 5 to simplify development of JAVA based web services creation and deployment. It also provides supports for creating clients for RESTful web services.

Specification

Following are the commonly used annotations to map a resource as a web service resource.

S.N.	Annotation & Description
1	@Path Relative path of the resource class/method.
2	@GET HTTP Get request, used to fetch resource.
3	@PUT HTTP PUT request, used to create resource.
4	@POST HTTP POST request, used to create/update resource.
5	@DELETE HTTP DELETE request, used to delete resource.
6	@HEAD HTTP HEAD request, used to get status of method availability.
7	@Produces States the HTTP Response generated by web service, for example APPLICATION/XML, TEXT/HTML, APPLICATION/JSON etc.
8	@Consumes States the HTTP Request type, for example application/x-www-form-urlencoded to accept form data in HTTP body during POST request.
9	@PathParam Binds the parameter passed to method to a value in path.
10	@QueryParam Binds the parameter passed to method to a query parameter in path.
11	@MatrixParam Binds the parameter passed to method to a HTTP matrix parameter in path.
12	@HeaderParam Binds the parameter passed to method to a HTTP header.
13	@CookieParam Binds the parameter passed to method to a Cookie.
14	@FormParam Binds the parameter passed to method to a form value.
15	@DefaultValue Assigns a default value to a parameter passed to method.

We've used Jersey, a reference implementation of JAX-RS 2.0 by Oracle, in [RESTful Web Services - First Application](#) and [RESTful Web Services - Methods](#) tutorial pages.

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