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## RESTFUL JAVA WEB SERVICES INTERVIEW QUESTIONS & ANSWERS



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#### RESTful JAVA Web Services Interview Questions

##### Question 1. In Which Scenarios Restful Web Services Are Preferred Over Soap Ones?

**Answer :** RESTful Web Services are preferred when:

- a) The Web Services are completely stateless.
- b) When data can be cached to improve performance.
- c) Schema of data can be agreed between service consumer and service provider.
- d) Bandwidth is limited.

##### Question 2. How Do You Refer Or Identify Resources In Rest Design Idiom?

**Answer :** Resources are identified by their unique URLs.

##### Question 3. Is Rest Stateless Or Stateful Client-server Architecture?

**Answer :** REST is stateless client-server architecture.

##### Question 4. Name The Java Api That Is Used For Building And Deploying Restful Web Services?

**Answer :**

- JAVA API for XML Web Services (JAX-WS) and
- JAVA API for XML RESTful Web Services (JAX-RS).

##### Question 5. How Web Service Interface For Restful Web Services Are Described?

**Answer :**



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There is no formal way of describing the Web Service interfaces. To overcome this, service producer and service consumer agree on schemas that describe the data being exchanged.

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#### **Question 6. Name Few Of The Jax-rs Implementations?**



**Answer :** Jersey, RESTEasy, Restlet are to name a few.

#### **Question 7. If I Plan To Use The Jersey Distribution For Restful Web Services, Do I Need To Download It?**

**Answer :** Yes. But if you are using NetBeans IDE 6.0, downloading is not required.

#### **Question 8. How Are Resources Addressed?**

**Answer :** Each resource is uniquely addressable using a universal syntax for use in hypermedia links.

#### **Question 9. In Restful Architecture, What Represents The Application State And Functionality?**

**Answer :** Uniquely Addressable Resources represent the application state and functionality.

#### **Question 10. What Is Shared Between Restful Resource That Is Used For Transfer Of State Between Client And Resource?**

**Answer :** A uniform interface is shared between resources that comprises of a set of well-defined operations, content types and optionally supporting code-on-demand.

#### **Question 11. How Do You Annotate A Method To Respond To Http Get Requests?**

**Answer :** javax.ws.rs.GET annotation specifies that the annotated method will serve HTTP Get request.

#### **Question 12. Name The Most Commonly Http Methods Used In Designing Restful Services?**

**Answer :** PUT, GET, POST, DELETE.

#### **Question 13. Define One-to-one Mapping Between Http Methods And Crud Operations?**

**Answer :** PUT maps to Create, GET maps to Retrieve, POST maps to Update, DELETE maps to Delete.

#### **Question 14. What Are Idempotent Methods?**



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**Answer :** A method is said to be idempotent if repeated calls to it does not cause duplicates.

**Question 15. In Order To Answer Http Put Requests, How Will You Annotate Your Resource Methods?**

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**Answer :** The @PUT annotation is used to answer HTTP PUT requests.

**Question 16. Why Put Methods Is Idempotent?**

**Answer :** PUT is used to create a resource and repeating the operation should never create another copy of the resource.

**Question 17. What Is The Purpose Of Javax.ws.rs.httpmethod?**

**Answer :** HttpMethod annotation is used to associate the name of a HTTP method with an annotation.

**Question 18. List Resource Method Designator Annotations?**

**Answer :** @GET, @PUT, @POST, @DELETE

**Question 19. Define Root Resource Class?**

**Answer :** Root resource class is basically a POJO (Plain Old JAVA Objects) that is annotated with @Path and has at least one method annotated with @Path or have at least a single resource method.

**Question 20. Define Resource Method?**

**Answer :** Method of a resource class that is annotated with resource method designator annotation is called Resource Method.

**Question 21. How To You Specify Relative Path Of A Resource In Restful Web Service?**

**Answer :** The @Path annotation is used to specify relative URI path.

e.g.

@Path("/test")

**Question 22. How Can You Embed Variables In The Uri?**

**Answer :** Variables can be embedded within the URI syntax (called URI path template). The variables are substituted at runtime.



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@Path("/test/{username}")

### Question 23. How Embedded Variables Are Represented In The Uri Syntax?

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**Answer :** Embedded variables are denoted by curly braces.



### Question 24. How Can You Obtain The Value Of A Method Parameter In Restful Resource Method?

**Answer :** @PathParam can be used on method parameter of a resource method to obtain the value for a method parameter.

e.g.

@GET

@Produces("text/plain")

public String getWelcomeMsg(@PathParam("username")

String userName) {

...

}

### Question 25. How Can You Define A Regular Expression For A Variable Say Username?

**Answer :** @Path("users/{username: [a-zA-Z][a-zA-Z\_0-9]\*}")

### Question 26. What Happens If Regular Expression Of A Uri Embedded Variable Is Not Matched?

**Answer :** A 404 (Not Found) response will occur.

### Question 27. Will The Following Direct To The Same Resource? @path("/test/") @path("/test")

**Answer :** Yes. By default, both should point to the same resource, although Jersey has arection mechanism that is disabled by default.

### Question 28. Explain How To Specify Mime Media Types Of A Resource That Is Sent Back To The Client?

**Answer :** @Produces annotation is used for this purpose..

e.g.

@Produces("text/plain")

### Question 29. Is It True That @produces Can Only Be Applied At Method Level?



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**Answer :** False. It can be applied at both the class and method levels.

**Question 30. Can @produces Annotation Be Overridden In A Restless Resource? Give Example?**

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**Answer :** Yes. In the following example, the default

MIME type is set as text/plain but doGetAsHtml method overrides it to text/html.

```
@Path("/testResource")
@Produces("text/plain")
public class TestResource {
    @GET
    public String doGetAsPlainText() {
        ...
    }
}
```

```
@GET
@Produces("text/html")
public String doGetAsHtml() {
    ...
}
}
```

**Question 31. How Can You Declare More Than One Media Type In The Same @produces Declaration?**

**Answer :** @Produces({"application/plain","application/xml", "application/json"})

**Question 32. Assume That There Is A Resource Class Capable Of Producing More Than One Mime Media Type For Get. How Will Be The Response Method Chosen?**

**Answer :** Resource method is chosen depending on the most acceptable media type as declared by the client in the request header.

e.g.

Accept: text/plain.

**Question 33. How Will You Specify The Mime Media Types Of Representations A Restful Resource Can Use?**

**Answer :** @Consumes annotation is to be used.

**Question 34. Write A Method That Is Triggered On Post Request And Takes Text/plain As Input?**



```
Answer : @POST
@Consumes("text/plain")
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public void postMessage(String message) {
...
}
```

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### Question 35. At Which Levels, @consumes Can Be Applied?

**Answer :** @Consumes can be applied at both the class and method levels.

### Question 36. Give An Example Of Declaring More Than One Media Type In @consumes Declaration?

```
Answer : @POST
@Consumes({"application/plain","application/xml"})
public void postMessage(String message) {
...
}
```

### Question 37. Can Restful Web Services Support Multiple Types Of Response (mime) Formats?

**Answer :** RESTful Web Services, by confirming to HTTP, does support multiple types of response (MIME) formats e.g. XML, JSON, PLAIN etc.

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