

## RestfulWebService

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WebService :Integration of two different application running on same server or different server is called Webservice

There are two types of integration

- a) Homogenous Integration
- b) Heterogeneous Integration

a) Homogenous Integration: if two application are developed by same language is called Homogenous Integration.

b) Heterogeneous Integration: if two application are developed by different language is called Heterogeneous Integration.

Every Http status code will one message

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1XX Information

2XX Success

204 There is no response body means( provider method as return type as void)

3XX Redirect

4XX ClientSideError

404 if data type mismatched

405 http method type mismatched

5XX ServerSideError

What is Design Pattern?

Design Pattern are used to reduce code and time so that application performance will be improved.

Json : (JavaScript Object Notation)

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It is the process of Object representation in Javascript language. it takes less memory

-> One pair indicate one object.

->Data must be key and value format only.

->Key must be quoted and value will be quoted if the type of variable is String.

WebService are two types:

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->Soap(Simple Object Access Protocol)/JAX-WS(Java Api for XML Web Service)

->Rest(Representational State Transfer)/JAX-RS(Java Api for Restful Service)

Rest Stands for Representation means global at

State means Data

Transform means Sending and receiving

Rest: It is process of sending and receiving global data between two application

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Here global formats are XML and Json

-> these two formats can be understand any language like(Java,.Net and other)

-> compare to XML .Json is lightweight

->XML or Json cannot sent over Network. so rest uses Http protocol to transfer data.

->Sun MicroSystem has provide basic Api for JAX-RS

->Third Party vendors are implemented ex:Jersey

Jersey is ApiOnly for JAX-RS

Jersey 1.X (web.xml based)

Jersey 2.X(Annotation and Configuration)

1st Party -----> SunMicro System (Api for JAX-RS)

3rd Party -----> Vendor( Jersey,RestEasy)

QueryParam:

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->These are used to send data key, value format.

Matrix Param:

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->it is also behave like query param but symbol changed ';' and compare to fast.

->How to convert Java Object to Json?

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By using Jackso api we have to convert java object to json.