

Assignment - 5.

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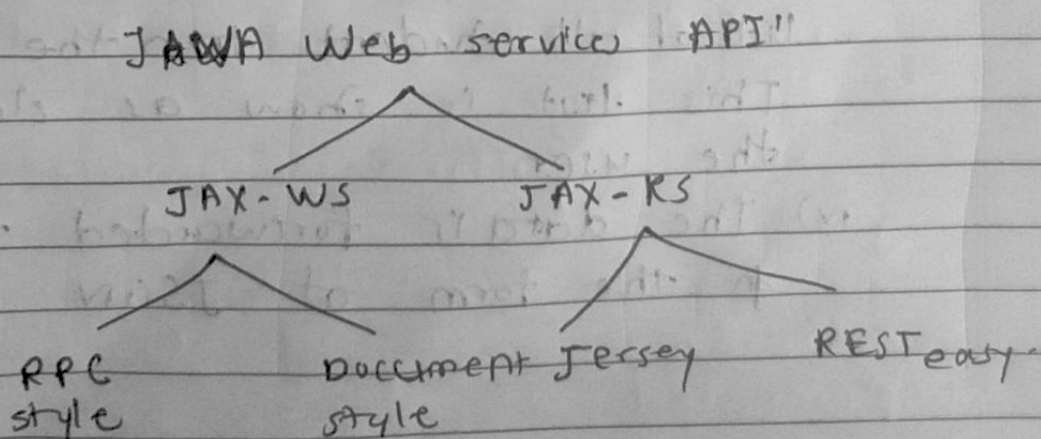
Aim: Create Java Web Service & integrate it with any suitable application.

Theory:

1) What is Java Web Services?

- 1) It is abbreviated as JWS.
- 2) Java web services application perform communication through WSDL (Web Services Description Language). There are two ways to write java web service application code. SOAP and RESTFUL.
- JWS application can be accessed by other programming language such as net & php
 - JWS: there are 2 way to write JWS application.
 - There are two main API's defined by java for developing web services application since Java.

i) JAX-WS (SOAP) ii) JAX-RS (REST).



Q. What are the advantages of Web Service?

i) Interoperability - Web services are accessible over network and runs on HTTP/SOAP protocol and use XML/JSON to transport data, hence, it can be developed in any programming language. Web services can be written in java programming and client can be PHP and vice versa.

2) Reusability - One web service can be used by many client applications at the same time.

3) Easy to deploy and integrate, just web applications.

4) Multiple service versions can be running at the same time.

Q. Integration of JWS with my application:

i) I have implemented 2 restful API using JWS.

ii) One of the API's is used for user authentication for log into my web.

iii) Second API is used to fetch the list of all students from the database. This list is shown as classmates to the user.

iv) The data is forwarded to and from the form of JSON.

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Conclusion:

In this way, I have successfully integrated JWS with my application.