Day 7 : 19 Sep 2024

Web Service

Giving the service for web application when both application running using different technologies or language.

Amazon -🡪 Spring boot --🡪

Payment -🡪 Paypal spring boot

Paytm Django

Gpay Express Node

Phone pay Asp.net

Credit card Php

Net banking

Etc

Java req (XML/JSON)

App1 XML/JSON App2

Java python res(XML/JSON) Python

XML: eXtensible Markup language

JSON : JavaScript object notation.

Web Service

Type of web service

1. SOAP Web Service : simple object access protocol. In SOAP web service we can consume and produce the data only in the form of xml. SOAP web service base upon SOA (Service Oriented Architecture).

WSDL file

.net Java

Consumer Producer

findAccountDetails(int accno)

using wsdl file they create code with respective language and using that code they can send soap request and get the soap response.

1. Rest Full Web Service :In Rest full web service we can consume and produce the data any format base upon application requirement like text, html, xml, json or any other media type. Rest full web service not base upon any architecture. We expose our resources as web service. Servlet or jsp or spring controller etc.

Implementation of Rest full web service using Java

1. JAX\_RS with Jersey tool (Java API for XML Rest full web service)
2. Spring boot provided implementation of rest full web service.

If our controller is @Controller then our view must be html or jsp or thymeleaf etc.

Here view and controller are tightly coupled.

If our controller is @RestController then our view can be any frontend technologies like Angular or React js or any other application like python, php , asp.net or rest client.

Here view and controller are loosely coupled.

Create project using spring initializer with starter as web starter.