Presentation layer

Python System

Php System

Angular Project

Tomcat -Container war

Servlet is a java class listens to HTTP requests like GET,POST etc.

Request/Response

http://localhost:8080

[www.amazon.in](http://www.amazon.in)

Monolithic – war file

Servlet

Customer

Book

GUI

Html,CSS, JS

Jquery,Angular,React

Main

COnsole

DB

Data Layer

DAO

SOA – SERVICE ORIENTED ARCHITECTURE

Service – method /functionality that is exposed publicly.

Producer

Consumes

Java Application (Tomcat)

getAllEmployees()

addEmployee(..)

deleteEmployee(..)

updateEmp(..)

PayPal

<http://192.165.21.1/paymentgateway>

(endpoint)

Online Book Store

(Consume)

Publish

(XML)

WSDL

Web Services

1. SOAP based – JAX-WS
   1. SimpleObjectAccessProtocol
   2. Robust and secured

XML

Consumer

PHP

Parses .wsdl

Service Java

1. Lightweighted Services – browser

REST Service – JAX-RS – Jersey plugin with Tomcat

* 1. XML
  2. HTML
  3. JSON – javscript Object Notation – Platform neutral format
     1. Jackson – Java object 🡪 JSON

Maven – Configuration pom.xml

1. Dependencies – libraries – Hibernate 5.0

Org.hibernate.transaction

.m2 🡪

Central Repository

Remote Repo

1. Package – war ,jar

Archetypes – simple , webapp,jersey

http://localhost:8080/RestDemos/webapi/myresource

<context-root>/webapi/

1. Copy EmpDao
2. Create a method in EmployeeResource
3. Add path
4. Return List<Employee>
5. EmpDao empDao=nee EmpDao()
6. Emp.getAllEmployees()
7. Dao operations
8. Properties File

Params

1. FormParam -- > @FormParam POST

@DELETE –

1. Path Variables --@PathParam

http://localhost:8080/RestDemos/employee/deleteemployee/empid/1234

123

Get employee

http://localhost:8080/RestDemos/employee/updatedept/empid/1234/dept/sales

1. QueryParam – Request Parameter

@QueryParam -- GET

http://localhost:8080/RestDemos/employee/getemployee?empid=1234

REST Clients

1. POSTMAN
2. SOAP UI
3. Curl

Service Layer

resource

Servlet

DAO

Business Layer