MVC using Servlet and JSP

Course 3

We will develop MVC application using Spring MVC or Spring boot

Web Service : Giving the service for web application when two application running using different technologies. Java req

Amazon or e commerce application -🡪 XML/JSON paypal java

Using Servlet and JSP .net paytm asp.net

Php Phone pay php

Python Google pay python

Credit card / debit cart or net banking

Java is platform independent but language dependent programming language.

Xml : eXtensible markup language

Json : java script object notation

Spring Framework and Spring boot, Web Service and Junit testing

After develop our own rest api those rest api we calling in angular application.

We Develop web application using JEE technologies

Servlet and JSP

MVC

Model bean, service, dao, resource etc.

View : html or jsp css and Javascript

Controller : Servlet

Web container part of web server responsible to create the object of servlet and jsp. In ems model layer not up to that mark

To improve model layer EJB came in picture.

Enterprise Java bean : to develop simple ejb application we need to do more configuration. We need ejb container part of application server. EJB is complex.

For EJB Web application ie Servlet and JSP are client. Using EJB we develop distributed application.

JSP Servlet

JSP Servlet EJB payment gateway

JSP Servlet

JEE

Servlet -🡪 controller layer

JSP -🡪 view layer

EJB -🡪 model layer

Framework : Framework provide set of api which internally connected to each other to perform specific task. Framework internally follow standard rules. Framework provide implementation of design pattern. Design pattern is known as best practice or solution of repeating problem. If we develop any application with help of framework 70 to 80% task taken care framework. But framework is not final product it like a template or protocol.

Angular angular is framework

React with Redux react is library

Angular and React as well as Vue JS which help to develop

SPA application

Angular use MVC and React use V in MVC.

React provide virtual dom and angular doesn’t provide.

Java api, python api : it may be classes or interfaces or function or modules etc.

Rest api

Java frameworks

Struts : Struts is an open source web framework provided by Apache. Struts internally follow MVC architecture design pattern. It provided lot of api to improve view layer, controller layer and model layer. But among that controller layer is very strong. So struts is known as controller centric framework.

JSF JSF is an open source web framework provided by Oracle. JSF internally follow MVC architecture design pattern. It provided lot of api to improve view layer, controller layer and model layer. But among that view layer is very strong. So JSF is known as view centric framework.

Hibernate : Hibernate is an open source framework provided by JBoss. Which help to connect the database. Hibernate is use to improve dao layer. Hibernate use ORM (Object Relation mapping )

Spring framework : spring is an open source light weighted layer or onion architecture framework.

Spring framework provided lot of module which help to improve all type of application or layers.

Spring framework modules.

1. Spring core
2. Spring context
3. Spring dao
4. Spring Web or Spring MVC : it internally follow MVC Architecture design pattern. It provided lot of api to improve view, controller and model layer. Spring MVC is known as model centric framework.

Spring Framework Vs EJB

1. Spring Rest
2. Spring security
3. Spring cloud
4. Spring micro service
5. Spring ORM
6. Spring AOP
7. Spring boot

Etc