**Spring MVC**

we know that Spring provide the integration support for lot of the libraries like jpa hibernate

so one of the another framework is Spring MVC

so first understand what Is Spring MVC design pattern

M V C

Model

(data) Controller

view

ex-productdetails.html

home.html

etc

productdetails.html

request productlist.html

response home.html

request will come to the application then based on the request controller will decide which of the view will be rendered like productdetails.html , productlist.html or home.html etc

for example if request will come for the home.html(/home.html) then controller will give back the home.html as the response

now we are using spring boot web for that now we will add spring-boot-starter-web dependency not spring-boot-starter

it comes with the tomcat server that is servlet container that will give us the web server , for that we will add tomcat server dependency

we will add also javax.servlet.jsp.jstl-api and taglibs dependency

the spring web understand the structure that is inside webapp directory we can keep html files and images etc. now inside webapp we have WEB-INF directory inside it we can keep libraries.classes etc

inside webapp directory everything is public ,anyone can use that

now we can also tell the spring on which port application should be started the default port is 8080 but if we want different then we can provide in app.properties file that is inside resources directory

server.port=8585

now inside the webapp if we have created the home.html file and we write the localhost:8585/home.html in the web browser then home.html file will be rendered

we don’t want spring or other thing to render the public resources whether it is html or jsp or images etc

You wanted when there is more control than you want to decide which of the view should be rendered when the URL will be hit or only show the pages when user will be logged in then we need spring framework

now inside webapp we keep only file that will be public so anyone can access that we don’t want , for that inside webapp we can create META-INF directory so we keep the files like jsp,html etc then that will not be visible, if we want home.html file to be public then we can keep directly inside webapp

jsp(java server pages) means markup+java

now here we will not write code here with markup otherwise our code will be very poor

so here we use only write html in jsp file, to avoid the java code in jsp file we will use taglib

<%@ page language="java" contentType="text/html; charset=UTF-8" %>  
<%@ taglib prefix="c" uri="http://java.sun.com/jsp/jstl/core" %>

.so we are using old version of jsp that is jstl

@Controller annotation we mention on the the controller class it is special type of @Component annotation but it also says that it is controller class

@Controller is used to mark classes as Spring MVC Controller

now we will add two more thing inside app.properties file

spring.mvc.view.prefix=/WEB-INF/views/  
spring.mvc.view.suffix=.jsp

🡪what is @GetMapping(“url”)

it is used for mapping if we want to fetch some data using link

🡪what is @RequestParam

@RequestParam annotation is used to read the form data and bind it automatically to the parameter present in the provided method