Spring MVC

Spring MVC is a type of spring module which help to create web application.

Servlet

JSP

Rest API using JAX\_RS

If we want to develop any web page using servlet or jsp. We need to create normal java class and that class must be extends or implements type of servlet. Then we need to override pre defined methods like doGet, doPost etc. Inside one servlet we can’t write more then on doGet or doPost methods. doGet as well as doPost contains two parameter ie request and response.

In Spring MVC if we want to servlet features we need to create normal java class and on that class we need to user @Controller annotation. Inside that class we can write more than one user defined methods with annotation as @RequestMapping which help to map the request as well as a http methods.

All those methods return type can be ModelAndView class reference or String return type. ModelAndView is a pre defined class part of Spring MVC which keep track about view and model.

@Controller

public class MyController {

// by default this method consider as get method.

@RequestMapping(value=”hello”,method=RequestMethod.GET)

public ModelAndView sayHello() {

ModelAndView mav = new ModelAndView();

// coding ……………….

mav.setViewName(“display1.jsp”);

return mav;

}

@RequestMapping(value=”hi”,method=RequestMethod.GET)

public ModelAndView sayHi() {

ModelAndView mav = new ModelAndView();

// coding ……………….

mav.setViewName(“display2.jsp”);

return mav;

}

}

If we want to develop spring mvc project we need to create dynamic web project with version 2.5 with web.xml file. Then convert this project to maven projects.

Spring MVC internally follow front controller design pattern. Front controller design pattern control all controller flow.

Front Controller --🡪 it check path and base upon the path it redirect to specific controller.

LoginController

CustomerController

ManagerController

Spring MVC provided pre defined class ie DispatcherServlet. Which behave like a FronController which controller all controller flow.

This class we can configure in web.xml file or in normal java class.

Whenever any request receive from view ie jsp DispatcherServlet receive the request and search spring configuration file with name as

servletname-servlet.xml file

dispatcher-servlet.xml file

Abc-servlet.xml

Demo-servlet.xml