

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 FrontController 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

In this must be inside WEB-INF folder or with web.xml file.

Spring MVC Application with Database using JdbcTemplate

Create dynamic web project with version 2.5 with web.xml file and convert this project to maven project.

You need to add spring web mvc, spring jdbc and mysql connector dependencies.

Create the table

create table login(emailid varchar(30) primary key,password varchar(30));

