Spring MVC

What is Spring MVC

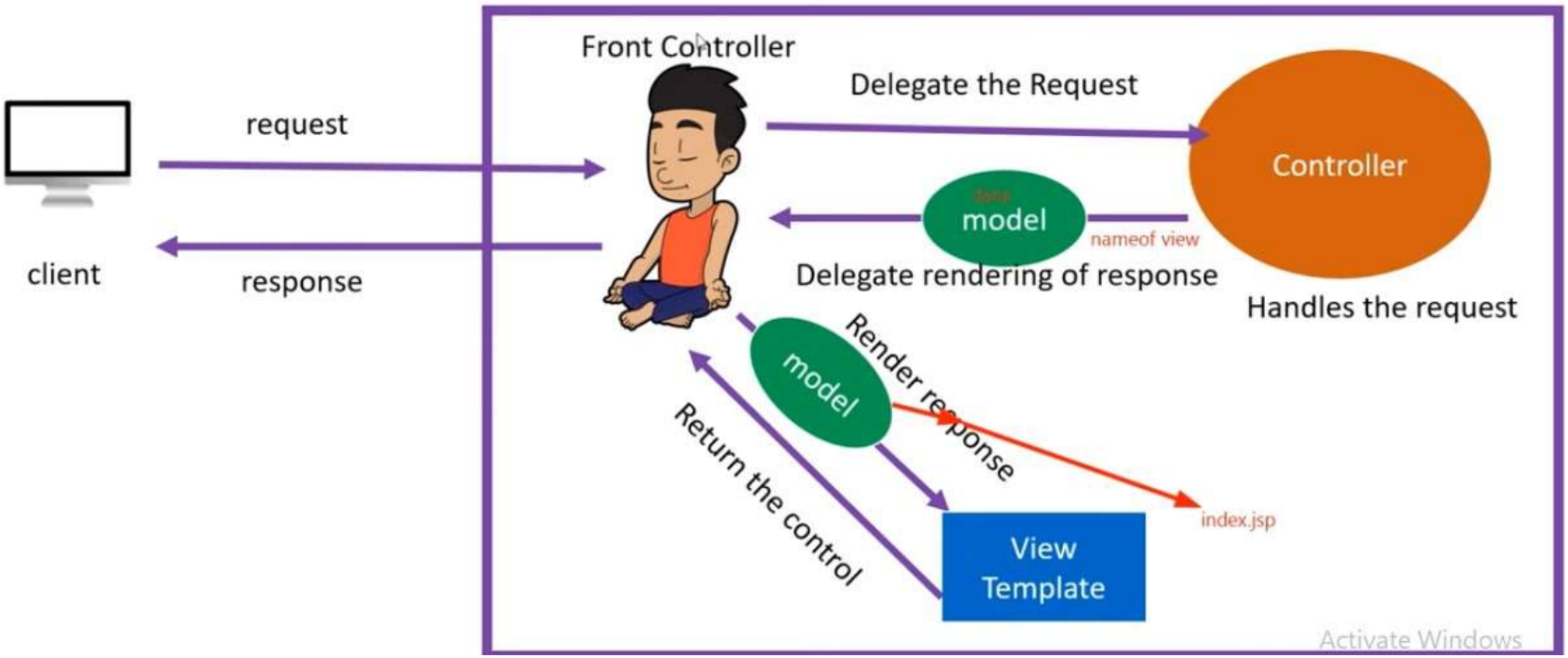
- A Spring MVC is sub framework of spring framework which is used to create web applications
- It is build on the top of Servlet API
- It follows the Model-View-Controller Design Pattern
- It Implements all the basic feature of a core spring framework like IOC, Dependency Injection

Why Spring MVC

- It Separates each Model, View and Controller Part
- It provides powerful configuration
- It is sub framework of spring framework, so spring core feature provided which helps to develop loosely coupled applications.
- Rapid Application Development
- Spring MVC is flexible, easy to test and provides much feature.

Working of Spring MVC

Dao
Services



Steps to Create Spring MVC Application

- Configure the dispatcher servlet in web.xml file
- Create Spring Configuration File
- Configure View Resolver
- Create Controller
- Create a view to show

Passing Data from Controller to View

- Generally there are two ways to pass data from controller to view
- Model – setAttribute(Key,value), getAttribute(key)
- ModelAndView – setAttribute(key,value), setView(viewName)

Mandatory Annotations of Spring MVC

- @Controller – Used to make any class as controller
- @RequestMapping – Used to define the URL path or map the request
- @Model – Used to set the data

Sending Data from View to Controller

- There are three ways to send the data from view to controller

1. @HttpServletRequest
2. @RequestParam
3. @ModelAttribute

Redirection in Spring MVC

- Generally there are two ways to redirect

1. Using redirect prefix:
   Before the actual page name, use redirect
   e.g return “redirect:/error”
2. Using RedirectView class
   Use the redirect view object and set the url
   RedirectView view = new RedirectView
   view.setUrl(“error”);