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Top 23 Spring MVC Framework Interview Questions Answers - Java JEE

Spring Interview Questions Answers

Spring Interview Question is one of the first things Java programmer should prepare before appearing on any Java or Spring interview. With growing popularity of Spring framework in Java world, **Interview questions on Spring** are getting more important day by day. For those who don't know, Spring framework is one of the most popular Java programming framework, which not only provided `dependency Injection` and `Inversion of Control` but also provides useful API to Java programmers. Spring framework is divided into many different modules e.g. Spring MVC, Spring Integration, Spring Batch, Spring LDAP, Spring Security and several other modules.

Based on your work experience, Interviewer can ask questions from core Spring or these modules. That's why, while preparing Spring interview question focus on Spring core, **Spring Security**, and Spring API, these are main areas from where interviewer ask questions.

If you have working experience in Spring-based Java projects, you can easily answer most of these Spring questions asked in **Java interview**, but if you don't have any prior experience and just learning Spring, you need to not only prepare answers to these Spring questions but also some follow-up questions, which may stem from your answers.

Spring Interview Questions and Answers

Anyway let's see frequently asked questions on Spring framework on Java interviews :

1) What is spring framework? Why Java programmer should use Spring framework

Very common Spring interview question, Spring is a framework which helps Java programmer in development. Spring provides Dependency Injection and IOC container, Spring MVC flow and several useful API for Java programmer.

2) What is default scope of bean in Spring framework? (**answer**)

The default scope of a Spring bean is the Singleton scope and in the web application default scope of a spring bean is request scope. Singleton bean means the same instance of a bean is shared with all other beans, while request scope means a bean is alive only for a request.

3) Does Spring singleton beans are thread-safe?

No, Spring singleton beans are not thread-safe. Singleton doesn't mean bean would be **thread-safe**.

4) What is Dependency Injection?

Dependency Injection is one of the design pattern, which allows injecting dependency on Object, instead of object resolving the dependency.

5) What is Inversion of Control concept, how does Spring support IOC? (**answer**)

The simple meaning of inversion of the control means that now the framework, Spring is responsible for creating objects, wiring dependencies and managing their life-cycle instead of a developer, which was the case before. That's where control is inverted from developer to framework.

6) What is Spring MVC? Can you explain How one request is processed? (**answer**)

Spring MVC is a framework to develop Java web application. It provides an implementation of MVC or

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Model View Controller architecture which is built on separation of concerns and makes the development of Java web application easy. In order to use this in your project, you need to learn Spring and include its JAR file.

7) How do you create a controller in Spring? @Controller vs @RestController? (answer)

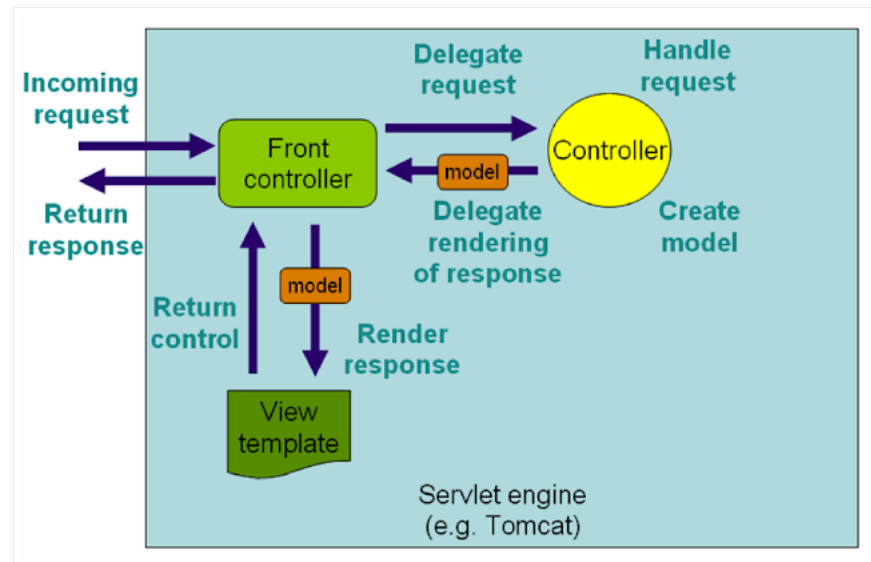
A controller is nothing but a class, also known as a bean in Spring terminology. If you are using annotation then you can create controller by using @Controller annotation. If you are developing RESTful web service then you can also create REST controllers by using @RestController annotation. See the answer for more detailed discussion.

8) What is view Resolver pattern? how it works in Spring MVC

View Resolver pattern is a J2EE pattern which allows a web application to dynamically choose its view technology e.g. HTML, JSP, Tapestry, JSF, XSLT or any other view technology.

In this pattern, View resolver holds mapping of different views, controller return name of the view, which is then passed to View Resolver for selecting an appropriate view.

Spring MVC framework also supplies inbuilt view resolver for selecting views. See [Spring Master Class - Beginner to Expert](#) to learn more about how Spring MVC internally works.



9) What is Spring Security?

Spring security is a project under spring framework umbrella, which provides support for security requirements of enterprise Java projects.

Spring Security formerly known as aegis security provides out of box support for creating login screen, remember me cookie support, securing URL, authentication provider to authenticate the user from the database, LDAP and in memory, concurrent active session management support and much more.

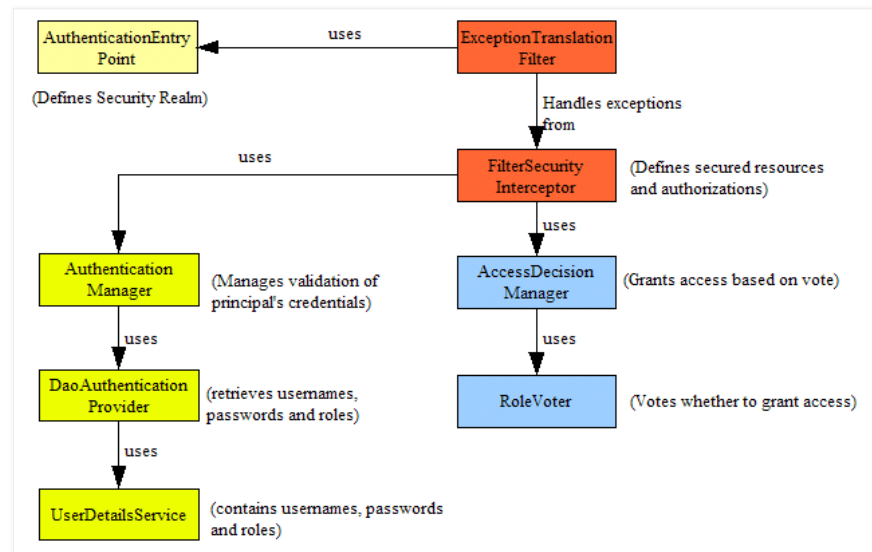
In order to use Spring security in a Spring MVC based project, you need to include spring-security.jar and configure it in application-Context-security.XML file, you can name it whatever you want, but make sure to supply this to ContextLoaderListener, which is responsible for creating Spring context and initializing dispatcher servlet.

You can further see [Learn Spring Security Certification Class](#) learn more about authentication, authorization, and session control using Spring Security.

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10) How do you control concurrent Session on Java web application using Spring Security?

You can use Spring Security to control a number of active session in Java web application. Spring security framework provides this feature out of the box and when enabled, a user can only have one active session at a time. See this [Spring Security example](#) to learn more about [How to control concurrent user session using Spring security](#)

11) What types of dependency injection is supported by Spring Framework? When do you use Setter and Constructor Injection, pros and cons?

There are 2 types of dependency injection supported by Spring, constructor based injection, and setter-based injection.

Both types have their own advantages and disadvantages, you should use Constructor injection when object's dependencies are not optional and they must be initialized with their dependencies.

Also, use constructor injection if the order of initialization or dependency matters because in Setter based injection you cannot impose any order. Use setter injection when dependencies are optional. See the [difference between setter and constructor injection in Spring](#) for a more detailed answer.

12) What is the difference between ApplicationContext and BeanFactory in Spring framework? ([answer](#))

13) How do you call a stored procedure by using Spring framework? ([answer](#))

14) What do JdbcTemplate and JmsTemplate class offer in Spring?

15) Can we use more than one configuration file for our Spring project?

16) Explain Spring MVC flow with a simple example e.g. starting from Container receives a request and forward to your Java application? ([answer](#))

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17) What is the difference in Spring MVC and Spring core?

The Spring MVC is part of Spring framework which helps you to develop Java web application using model web controller pattern, while Spring Core provides the Dependency injection and Inversion of Control. The Spring Container is part of Spring core.

Both functionalities come in different JAR files. If you are developing just a core Java application using Spring then you just need Spring Core but if you are developing Web application then you need spring-mvc.jar as well. See [Introduction to Spring MVC](#) to learn more about Spring framework architecture and components.

18) Can you use Spring MVC framework along with Struts? I have an existing Java MVC application which is based in Struts, Can I migrate that to use Spring MVC? How?

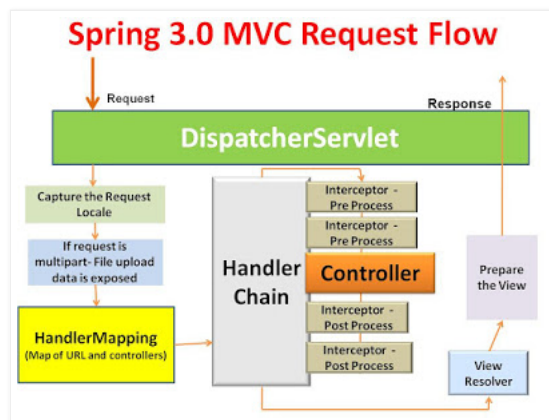
19) What is the advantage of Spring MVC framework over Struts 1.0 or Struts 2.0 ? is it worth to convert an existing Struts application to Spring MVC?

20) How does Spring resolve view returned by ModelAndView class?

Some Spring MVC questions are tricky e.g. Struts and Spring integration and can be only answered by experienced Java program with 2 to 4-year experience in Spring MVC framework.

21) If a user checked in CheckBox and got a validation error in other fields and then he unchecked the CheckBox, what would be selection status in command object in Spring MVC? How do you fix this issue?

Since during HTTP post, if the checkbox is unchecked than HTTP does include a request parameter for checkbox, which means updated selection won't be picked up. you can use hidden form field, starting with _ to fix this in Spring MVC. quite a tricky question to answer if you are not aware of HTTP POST behavior and Spring MVC.



22) What are different implementations of View interface you have used in Spring MVC?

ULBased View e.g. JSP, JSTLView,

23) How to escape HTML special characters using Spring MVC?

There are some methods in Spring tag library, can't remember now.

These were some of the **Core Spring framework and MVC Interview questions** from my collection, I have given short answers for most of these Spring interview question. I suggest to research more or read along those Spring question to prepare for follow-up Spring interview questions.

Other **Interview questions** and answer for Java programmer:

[Spring Framework 5: Beginner to Guru](#)

- [How Spring MVC Framework work internally](#)
- [Spring and Hibernate for Beginners](#)
- [10 Java Coding Interview Questions and Answer](#)
- [What is the use of DispatcherServlet in Spring](#)
- [What are the difference between wait and sleep in Java](#)
- [5 Books to learn Spring Framework better](#)
- [How to implement Role-based access control in Spring?](#)
- [Difference between Dependency Injection and Factory Pattern](#)

P.S. - If you want to learn how to develop RESTful Web Services using Spring Framework, check out Eugen Paraschiv's [REST with Spring course](#). He has recently launched the certification version of the course, which is full of exercises and examples to further cement the real world concepts you will learn from the course.

Posted by [Javin Paul](#)



Labels: [interview questions](#), [spring framework](#), [spring mvc](#)

12 comments:

Radhe [September 20, 2012 at 11:57 PM](#)

My list of Spring MVC interview question :

Explain Spring MVC flow with a simple example e.g. starting from Container receives request and forward to your Java application ?

What is difference in Spring MVC and Spring core?

Can you use Spring MVC framework along with Struts ? I have an existing Java MVC application which is based in Struts, Can I migrate that to use Spring MVC ? How ?

What is advantage of Spring MVC framework over Struts 1.0 or Struts 2.0 ? is it worth to convert an existing Struts application to Spring MVC ?

How does Spring resolves view returned by ModelAndView class ?

Some Spring MVC questions are tricky e.g. Struts and Spring integration and can be only answered by experienced Java program with 2 to 4 year experience in Spring MVC framework.

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Bhaumik [October 18, 2012 at 10:01 PM](#)

Good questions Radhe. Inspired by you, I would also like to share few more Spring MVC question which I have seen on Spring Interviews :

1)IF User checked in CheckBox and got validation error on otherfields and than he unchecked the CheckBox, what would be selection status in command object in Spring MVC ? How do you fix this issue ?

Since during HTTP post, if checkbox is unchecked than HTTP does include a request parameter for checkbox, which means updated selection won't be picked up. you can use hidden form field, starting with _ to fix this in Spring MVC. quite tricky question to answer if you are not aware of HTTP POST behavior and Spring MVC.