

JAVA SPRING FRAMEWORK

INTERVIEW QUESTIONS ANSWERS

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What is Spring Framework in Java interview questions? 1. What is Spring Framework. Spring framework is an open-source Java framework that supports building robust Java applications. It mainly handles all the infrastructure-related aspects allowing the developer to focus more on application development, making it the world's most popular Java framework.

What is the difference between Java framework and Spring Framework? What are the key differences between Spring and Java EE? Whereas Spring is a framework, Java EE is a specification. Spring is built on a layered and multi-module architecture but Java EE is built on a 3D architectural framework.

What is a Spring Framework in Java? Spring Framework (Spring) is an open source software development framework that provides infrastructure support for building Java-based applications on any deployment platform. Released in June 2003 by Rod Johnson under the Apache 2.0 license, Spring Framework is hosted by SourceForge.

Is Spring Framework easy or hard? It is a framework based on microservice and making a production-ready application using Spring Boot takes very little time. It is very easy to create stand-alone, production-grade Spring-based Applications that you can “just run”.

What is Maven in Spring Framework? Maven is a build and dependency manager. Basically, it allows you to build your code, while also managing your dependencies for you so that you don't have to download jars manually. Spring is the brand for a bunch of different frameworks and libraries.

What is JDBC in Spring Framework? Spring JDBC Template provides a fluent API that improves code simplicity and readability and the JDBC Template is used to connect to the database and execute SQL Queries. JDBC (Java Database Connectivity) is an application programming interface (API) that defines how a client may access a database.

What is the @SpringBootApplication annotation used for? Spring Boot @SpringBootApplication annotation is used to mark a configuration class that declares one or more @Bean methods and also triggers auto-configuration and component scanning. It's same as declaring a class with @Configuration, @EnableAutoConfiguration and @ComponentScan annotations.

How many frameworks are in Spring? The Spring framework contains 20 modules including Core, Beans, Context, Expression Language, AOP, Aspects, Instrumentation, JDBC, ORM, OXM, JMS, Transaction, Web, Servlet, and Struts.

How many types of Spring framework are there? The Spring Framework consists of features organized into about 20 modules. These modules are grouped into Core Container, Data Access/Integration, Web, AOP (Aspect Oriented Programming), Instrumentation, and Test, as shown in the following diagram.

Why do we need Spring Framework? Why Use Spring? Spring Framework offers several compelling reasons for its adoption in software development projects: Dependency Injection (DI): Spring's DI mechanism promotes loose coupling between different components of an application. This makes the code more modular and easier to manage, test, and maintain.

What are the layers in Spring Framework?

Is Spring a tool or framework? The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform.

What is a disadvantage of Spring Framework? Spring Cons Complexity: Working with Spring is more complex. It requires a lot of expertise. If you have not used Spring before, first you will have to learn. The learning curve is also difficult, so if you

have not a lot of development experience, it is difficult to learn.

What are the requirements for Spring Framework? As of Spring Framework 6.0, Spring requires Java 17+. Spring supports a wide range of application scenarios. In a large enterprise, applications often exist for a long time and have to run on a JDK and application server whose upgrade cycle is beyond developer control.

How to learn Spring Framework step by step?

What is the rest API in Spring Boot? In a Spring Boot Rest API, a model class represents the data entities you want to work with. For example, let's consider a Book class: In this example, the @Entity annotation indicates that this class is a JPA entity, and @Id specifies the primary key.

What is POM in Maven? What is a POM? A Project Object Model or POM is the fundamental unit of work in Maven. It is an XML file that contains information about the project and configuration details used by Maven to build the project.

What are Spring microservices? Microservices architecture is a style that structures an application as a collection of small, independent services, modeled around a business domain. The Spring Framework provides strong support for building microservices through the Spring Boot and Spring Cloud projects.

What is JPA and JDBC? JPA vs. JDBC: JPA: Higher-level abstraction with object-relational mapping, reducing the need for manual SQL. JDBC: Lower-level API requiring manual SQL queries and result set handling.

What is a bean in Spring? Bean Definition Here's a definition of beans in the Spring Framework documentation: In Spring, the objects that form the backbone of your application and that are managed by the Spring IoC container are called beans. A bean is an object that is instantiated, assembled, and otherwise managed by a Spring IoC container.

What is JPA in Spring Boot? What is JPA? Spring Boot JPA is a Java specification for managing relational data in Java applications. It allows us to access and persist data between Java object/ class and relational database. JPA follows Object-Relation Mapping (ORM). It is a set of interfaces.

What is framework in Java interview questions? The Java Collection framework provides an architecture to store and manage a group of objects. It permits the developers to access prepackaged data structures as well as algorithms to manipulate data. The collection framework includes the following: Interfaces.

What is the use of Spring Boot framework in Java? Benefits of Spring Boot
Reduces time in development and increases productivity—Spring Boot makes it much easier to develop Spring-based apps with Java. Its opinionated approach to the Spring framework decreases the time spent on decisions and repetitive tasks and frees up time to focus on creating and testing the apps.

What is Java Spring Framework vs boot? Spring is the best choice for enterprise-level web apps with serverless, microservice-based and/or event-driven architecture, as well as apps with high-security requirements and/or asynchronous code; Spring Boot will be useful in stand-alone app development and for building production-ready Spring apps.

What is Spring model in Java? The Spring Web model-view-controller (MVC) is an open-source framework used to build J2EE web applications. It is based on the Model-View-Controller design pattern and implements the basic features of a core spring framework – Dependency Injection.

What are the four types of framework?

What is Java framework example? Java libraries have no rules or structure to adhere to, but Java frameworks include a set of rules, conventions, and tools for constructing and organizing code. Apache Commons, Google Guava, and Jackson are examples of Java libraries, while Spring, Struts, and Hibernate are examples of Java frameworks.

What is the most used framework in Java?

Why we use API in Spring Boot? In this tutorial, you learned what a backend API layer is, its essential benefits in the microservices world, and how to integrate it into a Spring Boot Web application. The API layer is nothing more than a set of components that provide complete functionality for sending and receiving data via API calls.

Why do we use Lombok in Spring Boot? Benefits of Using Lombok Easier to Read Code: With less clutter, the actual intent of the code stands out. Reduced Development Time: Less code to write means more focus on business logic. Easy to Refactor: Changing a field name doesn't require changing getter/setter methods.

What are microservices in Spring Boot? What are microservices? Microservices are a modern approach to software whereby application code is delivered in small, manageable pieces, independent of others.

What is the @SpringBootApplication annotation used for? Spring Boot @SpringBootApplication annotation is used to mark a configuration class that declares one or more @Bean methods and also triggers auto-configuration and component scanning. It's same as declaring a class with @Configuration, @EnableAutoConfiguration and @ComponentScan annotations.

What is the difference between Spring Boot and rest API? So, what's the difference? Well, while Spring REST is focused on providing RESTful services, Spring Boot is all about making it easier to create Spring applications. Spring REST and Spring Boot are both parts of the Spring ecosystem and can be used to create web applications and RESTful services.

Is Spring Boot backend or frontend? Spring Boot itself isn't designed for building full-fledged frontends. It is a powerful backend tool that can also provide frontend features. The more common architectural pattern is to have a separate frontend server for your frontends and rely on Spring Boot for backends.

What is the difference maven and Spring? Dependency injection (Spring) is about injecting dependencies into an instance of a class. Dependency management (Maven) is about retrieving the right library dependencies (other project jar files, including their own dependencies) for your project as a whole. They are unrelated.

What is Spring in Java with example? Spring is a lightweight and popular open-source Java-based framework developed by Rod Johnson in 2003. It is used to develop enterprise-level applications. It provides support to many other frameworks such as Hibernate, Tapestry, EJB, JSF, Struts, etc. so it is also called a framework of frameworks.

What is MVC in Java Spring Boot? The Spring Web model-view-controller (MVC) framework is designed around a DispatcherServlet that dispatches requests to handlers, with configurable handler mappings, view resolution, locale and theme resolution as well as support for uploading files.

Unveiling Pivot Tables: A Journey into Data Analytics

In the realm of data analysis, pivot tables stand out as a powerful tool for exploring, summarizing, and organizing large datasets. "The Step-by-Step Guide to Pivot Tables: Introduction to Dashboards" empowers readers to master this essential Excel feature.

What are Pivot Tables?

Pivot tables are interactive tools that allow users to reorganize and summarize data in various ways. They provide a visual representation of data, enabling quick and comprehensive analysis. By dragging and dropping fields, users can customize the layout to suit their specific needs.

Q: How can pivot tables enhance data analysis?

A: Pivot tables offer numerous advantages, including:

- Summarizing data across multiple dimensions
- Identifying trends and patterns
- Quickly changing perspectives and data views
- Spotting outliers and inconsistencies

Creating Pivot Tables: A Step-by-Step Approach

Creating pivot tables is a straightforward process. Select the data range, navigate to the Insert tab, and choose PivotTable. Then, drag the fields you want to include in the Rows, Columns, and Values areas of the PivotTable Fields pane.

Q: What is the significance of the Rows and Columns areas?

A: The Rows area displays categories or groups of data, while the Columns area organizes data based on different criteria. This allows users to create meaningful

cross-tabulations and gain insights into the relationships between different variables.

Building Dashboards with Pivot Tables

Dashboards are powerful visual tools that provide a comprehensive overview of data from multiple sources. Pivot tables play a crucial role in dashboard creation, allowing users to incorporate interactive data summaries and visualizations.

Q: How do pivot tables contribute to effective dashboards?

A: Pivot tables enable users to:

- Present key metrics and insights in an organized manner
- Interact with data and explore different scenarios
- Create dynamic charts and graphs that update automatically
- Collaborate with others to share insights and make informed decisions

What do we learn in Chapter 1 of The Great Gatsby? At the dinner party, he meets Tom and Daisy's friend, Jordan Baker, who introduces readers to Jay Gatsby, who, as it turns out, is Nick's wealthy neighbor. In the first chapter of this novel, readers are introduced to many of the novel's themes, such as old vs. new money, racism, cultural superiority, and morality.

What are some questions for chapter 1 in The Great Gatsby?

What kind of person is Daisy in The Great Gatsby chapter 1? She is beautiful and charming, but also fickle, shallow, bored, and sardonic. Nick characterizes her as a careless person who smashes things up and then retreats behind her money.

Do you trust Nick and his interpretation of events? We call these narrators, or any narrator whose words can largely not be trusted, "unreliable narrators." Nick Carraway is not a classically unreliable narrator, because Fitzgerald gives no indications that Nick is lying to the reader or that his version of events directly contradicts anyone else's.

Why does Nick like Gatsby Chapter 1? Nick states that he has disdain for all that Gatsby represented, yet he does not pass judgment on him. He describes Gatsby as a person with a "gorgeous" persona and a seemingly endless sense of optimism.

Nick thinks of him as someone who was defeated by the "foul dust" that destroyed his aspirations.

What is the conflict in Chapter 1 of The Great Gatsby? The first external conflict in The Great Gatsby is between Tom and Daisy Buchanan. Nick Carraway learns about Tom's extramarital affair in Chapter 1.

Why did Daisy marry Tom? Why did Daisy marry Tom? Even though she was still in love with Gatsby, Daisy most likely married Tom because she knew he could provide her with more material comforts. In Chapter 4 Jordan recounts how, the day before the wedding, she found Daisy drunk, sobbing, and clutching a letter.

What happens to Nick Carraway in Chapter 1? After graduating from Yale, and fighting in WWI, Nick decides to become a bond trader and moves near NYC. Nick rents a house in West Egg, a Long Island suburb that is less fashionable than East Egg, which lies across the Long Island Sound. His tiny, cheap bungalow is next to Gatsby's enormous, tacky mansion.

Why doesn't Nick Judge Gatsby harshly in chapter 1? Why doesn't Nick judge Gatsby harshly? Nick is in love with Gatsby. Gatsby embodies everything that Nick admires about the human spirit.

Is Nick in love with Gatsby? This is at the very end of the novel. Of the late Gatsby, Tom says, "That fellow had it coming to him. He threw dust in your eyes just like he did in Daisy's...." And that's why it matters that Nick is gay and in love with Gatsby: because Tom's assessment is spot-on, but Nick will never admit it.

Did Daisy actually love Gatsby? Angry, he has the entire group travel to the Plaza Hotel in New York City. There, he confronts Gatsby, leading to an altercation between the two. During their argument, Gatsby tells Tom that Daisy doesn't, and has never loved him; instead, she loves Gatsby.

Was Daisy a gold digger? Yet Daisy isn't just a shallow gold digger. She's more tragic: a loving woman who has been corrupted by greed. She chooses the comfort and security of money over real love, but she does so knowingly.

How is Nick unreliable in Chapter 1? In many ways, Nick is an unreliable narrator: he's dishonest about his own shortcomings (downplaying his affairs with other

women, as well as his alcohol use), and he doesn't tell us everything he knows about the characters upfront (for example, he waits until Chapter 6 to tell us the truth about Gatsby's origins, even ...

What does Nick Carraway symbolize? What does Nick Carraway symbolize? Nick symbolizes the outsider's perspective of the way things were in the 1920s. He is not as wealthy as the other characters in the novel and thus recognizes how morally corrupt they are.

Why does Gatsby recognize Nick? Nick encounters Jordan Baker at the party and they meet Gatsby himself, an aloof and surprisingly young man who recognizes Nick from their same division in the Great War. From their brief meetings and casual encounters at that time, Gatsby became (and still is) deeply in love with Daisy.

What lesson do you learn from Great Gatsby? The moral of The Great Gatsby is that the American Dream is ultimately unattainable. Jay Gatsby had attained great wealth and status as a socialite; however, Gatsby's dream was to have a future with his one true love, Daisy.

What is an important quote from Chapter 1 of The Great Gatsby? The Great Gatsby Chapter 1 In my younger and more vulnerable years my father gave me some advice that I've been turning over in my mind ever since. 'Whenever you feel like criticizing any one,' he told me, 'just remember that all the people in this world haven't had the advantages that you've had.'

What memorable moment happened in Chapter 1 of The Great Gatsby? A major event that happens in chapter 1 of the Great Gatsby is that Nick Carraway relocated to West Egg on Staten Island from the Midwest. Other important events include: Nick meets Jordan Baker and meets Gatsby during a dinner party held at the house of Tom and Daisy Buchanan.

What is the tone of chapter 1 in The Great Gatsby? In these opening chapters, the tone remains coolly bemused by the excesses and romantic entanglements of others. As the book proceeds, and Nick becomes friendly with Gatsby, he gets drawn into the love triangle between Tom, Daisy, and Gatsby, and the tone becomes both more emotional and more melancholy.

SCM605: Sales Processing in SAP ERP

What is SCM605?

SCM605 is a standard SAP transaction code used for sales processing in SAP ERP. It allows users to create and process sales orders, including functions such as entering customer information, defining order details, and checking availability.

How do I use SCM605?

To use SCM605, navigate to the SAP menu and enter "SCM605" in the command field. This will open the Sales Order Overview screen. From here, you can create a new sales order or modify an existing one.

What are the main features of SCM605?

SCM605 provides various features for sales processing, including:

- Order entry and modification
- Item management
- Credit checks
- Scheduling and delivery planning
- Invoice creation and printouts

What are the benefits of using SCM605?

SCM605 offers several benefits, such as:

- Streamlined order processing
- Reduced errors and improved data accuracy
- Enhanced customer service
- Improved inventory management

What are some common questions about SCM605?

- **How do I check the status of a sales order?** You can check the status of a sales order by entering the order number in the Sales Order Overview

screen.

- **How do I cancel a sales order?** You can cancel a sales order by selecting it in the Sales Order Overview screen and clicking on the "Delete" button.
- **How do I create a delivery note for a sales order?** You can create a delivery note by selecting the sales order in the Sales Order Overview screen and clicking on the "Delivery" button.

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