

Java JSP Programming Interview Questions And Answers Guide.



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Java JSP Programming Job Interview Preparation Guide.

Question # 1

What is JSP technology?

Answer:-

Java Server Page is a standard Java extension that is defined on top of the servlet Extensions. The goal of JSP is the simplified creation and management of dynamic Web pages. JSPs are secure, platform-independent, and best of all, make use of Java as a server-side scripting language.

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Question # 2

What is JSP page?

Answer:-

A JSP page is a text-based document that contains two types of text: static template data, which can be expressed in any text-based format such as HTML, SVG, WML, and XML, and JSP elements, which construct dynamic content.

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Question # 3

What are the implicit objects in JSP?

Answer:-

Implicit objects are created by the web container and contain information related to a particular request, page, or application. They are request, response, pageContext, session, application, out, config, page and exception.

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Question # 4

How many JSP scripting elements and what are they?

Answer:-

There are three scripting language elements:
declarations,
scriptlets,
and expressions.

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Question # 5

Why are JSP pages the preferred API for creating a web-based client program?

Answer:-

Because no plug-ins or security policy files are needed on the client systems (applet does). Also, JSP pages enable cleaner and more module application design because they provide a way to separate applications programming from web page design. This means personnel involved in web page design do not need to understand Java programming language syntax to do their jobs.

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Question # 6

Is JSP technology extensible?

Answer:-

YES. JSP technology is extensible through the development of custom actions, or tags, which are encapsulated in tag libraries.

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Question # 7

What is the ResourceBundle class in JSP?

**Answer:-**

The ResourceBundle class is used to store locale-specific resources that can be loaded by a program to tailor the program's appearance to the particular locale in which it is being run.

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Question # 8

What is the difference between a Scrollbar and a ScrollPane in JSP?

Answer:-

A Scrollbar is a Component, but not a Container. A ScrollPane is a Container. A ScrollPane handles its own events and performs its own scrolling.

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Question # 9

What is a Java package and how is it used?

Answer:-

A Java package is a naming context for classes and interfaces. A package is used to create a separate name space for groups of classes and interfaces. Packages are also used to organize related classes and interfaces into a single API unit and to control accessibility to these classes and interfaces.

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Question # 10

What are the Object and Class classes used for?

Answer:-

The Object class is the highest-level class in the Java class hierarchy. The Class class is used to represent the classes and interfaces that are loaded by a Java program.

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Question # 11

What is a JSP and what is it used for?

Answer:-

Java Server Pages (JSP) is a platform independent presentation layer technology that comes with SUN's J2EE platform. JSPs are normal HTML pages with Java code pieces embedded in them. JSP pages are saved to *.jsp files. A JSP compiler is used in the background to generate a Servlet from the JSP page.

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Question # 12

What is difference between custom JSP tags and beans?

Answer:-

Custom JSP tag is a tag you defined. You define how a tag, its attributes and its body are interpreted, and then group your tags into collections called tag libraries that can be used in any number of JSP files. To use custom JSP tags, you need to define three separate components:

1. the tag handler class that defines the tag's behavior
2. the tag library descriptor file that maps the XML element names to the tag implementations
3. the JSP file that uses the tag library

When the first two components are done, you can use the tag by using taglib directive:

```
<%@ taglib uri="xxx.tld" prefix="..." %>
```

Then you are ready to use the tags you defined. Let's say the tag prefix is test:

MyJSPTag or

JavaBeans are Java utility classes you defined. Beans have a standard format for Java classes. You use tags to declare a bean and use to set value of the bean class and use to get value of the bean class.

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Question # 13

What are the two kinds of comments in JSP and what's the difference between them?

Answer:-

```
<%-- JSP Comment --%>
```

```
<!-- HTML Comment -->
```

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Question # 14

Can we use the constructor, instead of init(), to initialize servlet?

Answer:-

Yes, of course you can use the constructor instead of init(). There's nothing to stop you. But you shouldn't. The original reason for init() was that ancient versions of Java couldn't dynamically invoke constructors with arguments, so there was no way to give the constructor a ServletConfig. That no longer applies, but servlet containers still will only call your no-arg constructor. So you won't have access to a ServletConfig or ServletContext.

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Question # 15

How can a servlet refresh automatically if some new data has entered the database?

**Answer:-**

You can use a client-side Refresh or Server Push.

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Question # 16

The code in a finally clause will never fail to execute, right?

Answer:-

Using System.exit(1); in try block will not allow finally code to execute.

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Question # 17

How many messaging models do JMS provide for and what are they?

Answer:-

JMS provide for two messaging models, publish-and-subscribe and point-to-point queuing.

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Question # 18

How to Retrieve Warnings?

Answer:-

SQLWarning objects are a subclass of SQLException that deal with database access warnings. Warnings do not stop the execution of an application, as exceptions do; they simply alert the user that something did not happen as planned. A warning can be reported on a Connection object, a Statement object (including PreparedStatement and CallableStatement objects), or a ResultSet object. Each of these classes has a getWarnings method, which you must invoke in order to see the first warning reported on the calling object

```
SQLWarning warning = stmt.getWarnings();
if (warning != null)
{
    while (warning != null)
    {
        System.out.println("Message: " + warning.getMessage());
        System.out.println("SQLState: " + warning.getSQLState());
        System.out.print("Vendor error code: ");
        System.out.println(warning.getErrorCode());
        warning = warning.getNextWarning();
    }
}
```

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Question # 19

How many JSP scripting elements are there and what are they?

Answer:-

There are three scripting language elements: declarations, scriptlets, expressions.

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Question # 20

In the Servlet 2.4 specification SingleThreadModel has been deprecated, why?

Answer:-

Because it is not practical to have such model. Whether you set isThreadSafe to true or false, you should take care of concurrent client requests to the JSP page by synchronizing access to any shared objects defined at the page level.

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Question # 21

What are stored procedures? How is it useful?

Answer:-

A stored procedure is a set of statements/commands which reside in the database. The stored procedure is pre-compiled and saves the database the effort of parsing and compiling sql statements every time a query is run. Each database has its own stored procedure language, usually a variant of C with a SQL preprocessor. Newer versions of db's support writing stored procedures in Java and Perl too. Before the advent of 3-tier/n-tier architecture it was pretty common for stored procs to implement the business logic(A lot of systems still do it). The biggest advantage is of course speed. Also certain kind of data manipulations are not achieved in SQL. Stored procs provide a mechanism to do these manipulations. Stored procs are also useful when you want to do Batch updates/exports/houseKeeping kind of stuff on the db. The overhead of a JDBC Connection may be significant in these cases.

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Question # 22

How do I include static files within a JSP page?

Answer:-

Static resources should always be included using the JSP include directive. This way, the inclusion is performed just once during the translation phase. Do note that



you should always supply a relative URL for the file attribute. Although you can also include static resources using the action, this is not advisable as the inclusion is then performed for each and every request.

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Question # 23

Why does JComponent have add() and remove() methods but Component does not?

Answer:-

because JComponent is a subclass of Container, and can contain other components and jcomponents. How can I implement a thread-safe JSP page? - You can make your JSPs thread-safe by having them implement the SingleThreadModel interface. This is done by adding the directive `<%@ page isThreadSafe="false" %>` within your JSP page.

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Question # 24

How can I enable session tracking for JSP pages if the browser has disabled cookies?

Answer:-

We know that session tracking uses cookies by default to associate a session identifier with a unique user. If the browser does not support cookies, or if cookies are disabled, you can still enable session tracking using URL rewriting. URL rewriting essentially includes the session ID within the link itself as a name/value pair.

However, for this to be effective, you need to append the session ID for each and every link that is part of your servlet response. Adding the session ID to a link is greatly simplified by means of a couple of methods: `response.encodeURL()` associates a session ID with a given URL, and if you are using redirection, `response.encodeRedirectURL()` can be used by giving the redirected URL as input.

Both `encodeURL()` and `encodeRedirectURL()` first determine whether cookies are supported by the browser; if so, the input URL is returned unchanged since the session ID will be persisted as a cookie. Consider the following example, in which two JSP files, say `hello1.jsp` and `hello2.jsp`, interact with each other.

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Question # 25

How do I prevent the output of my JSP or Servlet pages from being cached by the browser?

Answer:-

You will need to set the appropriate HTTP header attributes to prevent the dynamic content output by the JSP page from being cached by the browser. Just execute the following scriptlet at the beginning of your JSP pages to prevent them from being cached at the browser. You need both the statements to take care of some of the older browser versions.

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Question # 26

How do you restrict page errors display in the JSP page?

Answer:-

You first set "Errorpage" attribute of PAGE directory to the name of the error page (ie `Errorpage="error.jsp"`) in your jsp page. Then in the error jsp page set "isErrorpage=TRUE". When an error occur in your jsp page it will automatically call the error page.

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