Java Servlet Programming Interview Questions And Answers Guide.

Java Servlet Programming Job Interview Preparation Guide.

Question # 1
What is the servlet?

Answer:-
Servlets are modules that extend request/response-oriented servers, such as Java-enabled web servers. For example, a servlet may be responsible for taking data in an HTML order-entry form and applying the business logic used to update a company's order database.
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Question # 2
What's the difference between servlets and applets?

Answer:-
Servlets are to servers;
applets are to browsers.
Unlike applets, however, servlets have no graphical user interface.
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Question # 3
What's the advantages using servlets than using CGI?

Answer:-
Servlets provide a way to generate dynamic documents that is both easier to write and faster to run. It is efficient, convenient, powerful, portable, secure and inexpensive. Servlets also address the problem of doing server-side programming with platform-specific APIs: they are developed with Java Servlet API, a standard Java extension.
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Question # 4
What are the uses of Servlets?

Answer:-
A servlet can handle multiple requests concurrently, and can synchronize requests. This allows servlets to support systems such as on-line conferencing. Servlets can forward requests to other servers and servlets. Thus servlets can be used to balance load among several servers that mirror the same content, and to partition a single logical service over several servers, according to task type or organizational boundaries.
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Question # 5
What's the Servlet Interface?

Answer:-
The central abstraction in the Servlet API is the Servlet interface. All servlets implement this interface, either directly or, more commonly, by extending a class that implements it such as HttpServlet. Servletsâ€">Generic Servletâ€">HttpServletâ€">MyServlet. The Servlet interface declares, but does not implement, methods that manage the servlet and its communications with clients. Servlet writers provide some or all of these methods when developing a servlet.
Read More Answers.

Question # 6
When a servlet accepts a call from a client, it receives two objects. What are they?

Answer:-
ServeltRequest: which encapsulates the communication from the client to the server.
ServletResponse: which encapsulates the communication from the servlet back to the client.
ServletRequest and ServletResponse are interfaces defined by the javax.servlet package.
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Question # 7

What is Java Servlet?

Answer:-

A servlet is a Java technology-based Web component, managed by a container called servlet container or servlet engine, that generates dynamic content and interacts with web clients via a request/response paradigm.

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Question # 8

Why is Servlet so popular?

Answer:-

Because servlets are platform-independent Java classes that are compiled to platform-neutral byte code that can be loaded dynamically into and run by a Java technology-enabled Web server.

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Question # 9

What is servlet container?

Answer:-

The servlet container is a part of a Web server or application server that provides the network services over which requests and responses are sent, decodes MIME-based requests, and formats MIME-based responses. A servlet container also contains and manages servlets through their lifecycle.

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Question # 10

When a client request is sent to the servlet container, how does the container choose which servlet to invoke?

Answer:-

The servlet container determines which servlet to invoke based on the configuration of its servlets, and calls it with objects representing the request and response.

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Question # 11

If a servlet is not properly initialized, what exception may be thrown?

Answer:-

During initialization or service of a request, the servlet instance can throw an UnavailableException or a ServletException.

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Question # 12

Given the request path below, which are context path, servlet path and path info?

Answer:-

/bookstore/education/index.html
context path: /bookstore
servlet path: /education
path info: /index.html

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Question # 13

What is filter? Can filter be used as request or response?

Answer:-

A filter is a reusable piece of code that can transform the content of HTTP requests,responses, and header information. Filters do not generally create a response or respond to a request as servlets do, rather they modify or adapt the requests for a resource, and modify or adapt responses from a resource.

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Question # 14

When using servlets to build the HTML, you build a DOCTYPE line, why do you do that?

Answer:-

I know all major browsers ignore it even though the HTML 3.2 and 4.0 specifications require it. But building a DOCTYPE line tells HTML validators which version of HTML you are using so they know which specification to check your document against. These validators are valuable debugging services, helping you catch HTML syntax errors.

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Question # 15

What is new in ServletRequest interface?(Servlet 2.4)

Answer:-

The following methods have been added to ServletRequest 2.4 version:
public int getRemotePort()
public java.lang.String getLocalName()

public java.lang.String getLocalAddr()
public int getLocalPort()

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Question # 16

Request parameter How to find whether a parameter exists in the request object?

Answer:-

1.boolean hasFoo = !(request.getParameter("foo") == null || request.getParameter("foo").equals(""));
2. boolean hasParameter = request.getParameterMap().contains(theParameter);
(which works in Servlet 2.3+)

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Question # 17

How can I send user authentication information while makingURLConnection?

Answer:-

You'll want to use HttpURLConnection.setRequestProperty and set all the appropriate headers to HTTP authorization.

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Question # 18

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 constructur 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 # 19

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 # 20

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 # 21

What mechanisms are used by a Servlet Container to maintain session information?

Answer:-

Cookies, URL rewriting, and HTTPS protocol information are used to maintain session information

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Question # 22

Difference between GET and POST in Java Servlets?

Answer:-

In GET your entire form submission can be encapsulated in one URL, like a hyperlink. query length is limited to 260 characters, not secure, faster, quick and easy.
In POST Your name/value pairs inside the body of the HTTP request, which makes for a cleaner URL and imposes no size limitations on the form's output. It is used to send a chunk of data to the server to be processed, more versatile, most secure.

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Question # 23

What is Java Servlet session?

Answer:-

The session is an object used by a servlet to track a user's interaction with a Web application across multiple HTTP requests.

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Question # 24

What is servlet mapping?

Answer:-

The servlet mapping defines an association between a URL pattern and a servlet. The mapping is used to map requests to servlets.

Question # 25

What is servlet context ?

Answer:-

The servlet context is an object that contains a servlet's view of the Web application within which the servlet is running. Using the context, a servlet can log events, obtain URL references to resources, and set and store attributes that other servlets in the context can use. (answer supplied by Sun's tutorial).

Question # 26

Which interface must be implemented by all servlets?

Answer:-

Servlet interface.

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