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With

SCWCD / OCWCD

Question Bank

Chapter : 1. The Servlet Technology Model



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Unit-1: The Servlet Technology Model

Objectives

1. For each of the HTTP Methods (such as GET, POST, HEAD, and so on) describe the purpose of the method and the technical characteristics of the HTTP Method protocol, list triggers that might cause a Client (usually a Web browser) to use the method; and identify the HttpServlet method that corresponds to the HTTP Method.
2. Using the HttpServletRequest interface, write code to retrieve HTML form parameters from the request, retrieve HTTP request header information, or retrieve cookies from the request.
3. Using the HttpServletResponse interface, write code to set an HTTP response header, set the content type of the response, acquire a text stream for the response, acquire a binary stream for the response, redirect an HTTP request to another URL, or add cookies to the response.
4. Describe the purpose and event sequence of the servlet life cycle: (1) servlet class loading, (2) servlet instantiation, (3) call the init method, (4) call the service method, and (5) call destroy method.

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Q1. You are creating a web form with this HTML:

- 11. `<form action="sendOrder.jsp">`
- 12. `<input type="text" name="creditCard">`
- 13. `<input type="text" name="expirationDate">`
- 14. `<input type="submit">`
- 15. `</form>`

Which HTTP method is used when sending this request from the browser?

- A. GET
- B. PUT
- C. POST
- D. SEND
- E. FORM

Answer: A

Q2. Given a header in an HTTP request: X-Retries: 4

Which two retrieve the value of the header from a given HttpServletRequest request? (Choose two.)

- A. `request.getHeader("X-Retries")`
- B. `request.getIntHeader("X-Retries")`
- C. `request.getRequestHeader("X-Retries")`
- D. `request.getHeaders("X-Retries").get(0)`
- E. `request.getRequestHeaders("X-Retries").get(0)`

Answer: A, B

Q3. For a given ServletResponse response, which two retrieve an object for writing text data? (Choose two.)

- A. `response.getWriter()`
- B. `response.getOutputStream()`
- C. `response.getWriter().getOutputStream()`
- D. `response.getWriter().getOutputStream()`
- E. `response.getWriter().write("text")`

Answer: A, B

Q4. Given an HttpServletRequest request and HttpServletResponse response,

which sets a cookie "username" with the value "joe" in a servlet?

- A. `request.addCookie("username", "joe")`
- B. `request.setCookie("username", "joe")`
- C. `response.addCookie("username", "joe")`
- D. `request.addHeader(new Cookie("username", "joe"))`
- E. `request.addCookie(new Cookie("username", "joe"))`
- F. `response.addCookie(new Cookie("username", "joe"))`

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G. response.addHeader(new Cookie("username", "joe"))

Answer: F

Q5. Your web page includes a Java SE v1.5 applet with the following declaration:

11. <object classid='clsid:CAFEEFAC-0015-0000-0000-ABCDEFEDCBA'

12. width='200' height='200'>

13. <param name='code' value='Applet.class' />

14. </object>

Which HTTP method is used to retrieve the applet code?

A. GET

B. PUT

C. POST

D. RETRIEVE

Answer: A

Q6. You are creating a servlet that generates stock market graphs. You want to provide the web browser with precise information about the amount of data being sent in the response stream.

Which two HttpServletResponse methods will you use to provide this information? (Choose two.)

A. response.setLength(numberOfBytes);

B. response.setContentLength(numberOfBytes);

C. response.setHeader("Length", numberOfBytes);

D. response.setIntHeader("Length", numberOfBytes);

E. response.setHeader("Content-Length", numberOfBytes);

F. response.setIntHeader("Content-Length", numberOfBytes);

Answer: B, F

Q7. You need to retrieve the username cookie from an HTTP request. If this cookie does NOT exist, then the c variable will be null.

Which code snippet must be used to retrieve this cookie object?

A. 10. Cookie c = request.getCookie("username");

B. 10. Cookie c = null;

11. for (Iterator i = request.getCookies();

12. i.hasNext();) {

13. Cookie o = (Cookie) i.next();

14. if (o.getName().equals("username")) {

15. c = o;

16. break;

17. }

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```
18. }
C. 10. Cookie c = null;
11. for ( Enumeration e = request.getCookies();
12. e.hasMoreElements(); ) {
13. Cookie o = (Cookie) e.nextElement();
14. if ( o.getName().equals("username") ) {
15. c = o;
16. break;
17. }
18. }
D. 10. Cookie c = null;
11. Cookie[] cookies = request.getCookies();
12. for ( int i = 0; i < cookies.length; i++ ) {
13. if ( cookies[i].getName().equals("username") ) {
14. c = cookies[i];
15. break;
16. }
17. }
```

Answer: D

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Q8. Given:

```
10. public void service(ServletRequest request,
11. ServletResponse response) {
12. ServletInputStream sis =
13. // insert code here
14. }
```

Which retrieves the binary input stream on line 13?

- A. request.getWriter();
- B. request.getReader();
- C. request.getInputStream();
- D. request.getResourceAsStream();
- E. request.getResourceAsStream(ServletRequest.REQUEST);

Answer: C

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Q9. Click the Exhibit button.

As a maintenance feature, you have created this servlet to allow you to upload and remove files on your web server. Unfortunately, while testing this servlet, you try to upload a file using an HTTP request and on this servlet, the web container returns a 404 status.

What is wrong with this servlet?

```
1. package com.example;
2.
3. import javax.servlet.http.*;
4.
5. public class MyWebDAV extends HttpServlet
6. {
7.     private String resourceDirectory;
8.     public MyWebDAV(String resDir) {
9.         this.resourceDirectory = resDir;
10.    }
11.    public void doPut(HttpServletRequest
12.                      req,
13.                      HttpServletResponse
14.                      resp) {
15.        // store file to resourceDirectory
16.        (code not shown)
17.    }
18.    public void doDelete(HttpServletRequest
19.                          req,
20.                          HttpServletResponse resp) {
21.        // remove file from resourceDirectory
22.        (code not shown)
23.    }
24. }
```

- A. HTTP does NOT support file upload operations.
- B. The servlet constructor must NOT have any parameters.
- C. The servlet needs a service method to dispatch the requests to the helper methods.
- D. The doPut and doDelete methods do NOT map to the proper HTTP methods.

Answer: B

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Q10. Click the Task button.

Place the events in the order they occur.

Drag and Drop

Place the events in the order they occur.

Order of Steps	Event
1st	web container instantiates the servlet
2nd	web container calls the servlet's destroy() method
3rd	web container loads the servlet class
4th	web container calls the servlet's init() method
5th	web container calls the servlet's service() method

Done

Answer:

- 1st: web container loads the servlet class.
- 2nd: web container instantiates the servlet
- 3rd: web container calls the servlets init() method.
- 4th: web container calls the servlets service() method.'
- 5th: web container calls the servlets destroy() method.

Q11. For an HttpServletResponse response, which two create a custom header?(Choose two.)

- A. response.setHeader("X-MyHeader", "34");
- B. response.addHeader("X-MyHeader", "34");
- C. response.setHeader(new HttpHeaders("X-MyHeader", "34"));
- D. response.addHeader(new HttpHeaders("X-MyHeader", "34"));
- E. response.addHeader(new ServletHeader("X-MyHeader", "34"));
- F. response.setHeader(new ServletHeader("X-MyHeader", "34"));

Answer: A, B

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Q12 .You need to create a servlet filter that stores all request headers to a database for all requests to the web application's home page "/index.jsp". Which HttpServletRequest method allows you to retrieve all of the request headers?

- A. String[] getHeaderNames()
- B. String[] getRequestHeaders()
- C. java.util.Iterator getHeaderNames()
- D. java.util.Iterator getRequestHeaders()
- E. java.util.Enumeration getHeaderNames()
- F. java.util.Enumeration getRequestHeaders()

Answer: E

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Q13. Click the Task button.

Given a request from mybox.example.com, with an IP address of 10.0.1.11 on port 33086, place the appropriate ServletRequest methods onto their corresponding return values.

Drag and Drop

Given a request from mybox.example.com, with an IP address of 10.0.1.11 on port 33086, place the appropriate ServletRequest methods onto their corresponding return values.

Proxy / Client Settings:	ServletRequest Methods:
mybox.example.com	getServerPort
10.0.1.11	getServerAddr
33086	getServerName
	getRemotePort
	getRemoteAddr
	getRemoteHost

Done

Answers:

Mybox.example.com : getRemoteHost
10.0.1.11 : getRemoteAddr

Q: 14 Your web application requires the ability to load and remove web files dynamically to the web container's file system. Which two HTTP methods are used to perform these actions? (Choose two.)

- A. PUT
- B. POST
- C. SEND

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- D. DELETE
- E. REMOVE
- F. DESTROY

Answer: A, D

Q15. Which retrieves all cookies sent in a given HttpServletRequest request?

- A. request.getCookies()
- B. request.getAttributes()
- C. request.getSession().getCookies()
- D. request.getSession().getAttributes()

Answer: A



Q16. Click the Task button.

Given a servlet mapped to /control, place the correct URI segment returned as a String on the corresponding HttpServletRequest method call for the URI: /myapp/control/processorder.

Drag and Drop

Given a servlet mapped to /control, place the correct URI segment returned as a String on the corresponding HttpServletRequest method call for the URI: /myapp/control/processorder.

HttpServletRequest Method	URI Segment
getServletPath	/myapp
getPathInfo	/control
getContext	/processorder

Done

Answers:

getServletpath() -----/processorder

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`getPathInfo () ----- /Control`
`getContext () ----- /myapp`

Q17. A web browser need NOT always perform a complete request for a particular page that it suspects might NOT have changed. The HTTP specification provides a mechanism for the browser to retrieve only a partial response from the web server; this response includes information, such as the Last-Modified date but NOT the body of the page. Which HTTP method will the browser use to retrieve such a partial response?

- | | |
|----------|------------|
| A. GET | B. ASK |
| C. SEND | D. HEAD |
| E. TRACE | F. OPTIONS |

Answer: D

Q 18. You are creating a servlet that generates stock market graphs. You want to provide the web browser with precise information about the amount of data being sent in the response stream. Which two HttpServletResponse methods will you use to provide this information? (Choose two.)

- A. `response.setLength(numberOfBytes);`
- B. `response.setContentLength(numberOfBytes);`
- C. `response.setHeader("Length", numberOfBytes);`
- D. `response.setIntHeader("Length", numberOfBytes);`
- E. `response.setHeader("Content-Length", numberOfBytes);`
- F. `response.setIntHeader("Content-Length", numberOfBytes);`

Answer: B, F

Q19. Which two prevent a servlet from handling requests? (Choose two.)

- A. The servlet's init method returns a non-zero status.
- B. The servlet's init method throws a ServletException.
- C. The servlet's init method sets the ServletResponse's content length to 0.
- D. The servlet's init method sets the ServletResponse's content type to null.
- E. The servlet's init method does NOT return within a time period defined by the servlet container.

Answer: B, E

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