Exam Simulator

Questions

PiotrNowicki.com



Q63 - Asynchronous Processing in Servlets [8]



63 / 67

Q63 - Asynchronous Processing in Servlets [8]

Considering the following Asynchronous Servlets code, choose which statements are true after a GET request to the NullServlet is made:

com.nullhaus.NullServlet

com.nullhaus.NullServlet2

```
package com.nullhaus;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import javax.servlet.annotation.*;

@WebServlet(urlPatterns = "/baz/*", name="NullServlet2", asyncSupported=true)
public class NullServlet2 extends HttpServlet {
    public void doGet(HttpServletRequest req, HttpServletResponse resp) throws IOException {
        req.setAttribute("Hello", "World");
        final AsyncContext ac = req.startAsync();
        ac.dispatch();
    }
}
```

- a. This code compiles
- b. The "Value of Hello is: null" will be included in the response
- c. The "Value of Hello is: World" will be included in the response
- d. The infinite loop dispatch-loop will be created
- e. The request will be served fine, but no text will be included in the response

- f. A runtime exception will be thrown when accessing this servlet
- g. This code doesn't compile

Hide answer

a, c

Reference: page 15, 2.3.3.3 "Asynchronous processing"

Explanation: This code is an example of how to use the ServletRequest#getDispatcherType() to recognize if the request was made initialy (REQUEST) or through asynchronous dispatch (ASYNC).

Another thing is that if the **unwrapped** ServletRequest and ServletResponse are used in the ServletRequest#startAsync(-), the following AsyncContext#dispatch() will dispatch the to the URL of the **original** request (/foo/*).

The last thing shown is that the ServletRequest and the ServletResponse are the same objects in the dispatch chain, so the attributes are saved properly.