

Chapter 1 : Chapter 3, Head First Servlets and JSP (Beginning Java forum at Coderanch)

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The role of Web middleware. Read the explicit data sent by the client. However, the data could also come from an applet or a custom HTTP client program. Read the implicit HTTP request data sent by the browser. Figure 2â€™1 shows a single arrow going from the client to the Web server the layer where servlets and JSP execute , but there are really two varieties of data: Both varieties are critical to effective development. The HTTP information includes cookies, media types and compression schemes the browser understands, and so forth. Your real data may be in a relational database. The same argument applies to most other applications. You need the Web middle layer to extract the incoming data from the HTTP stream, talk to the application, and embed the results inside a document. Send the explicit data i. This document can be sent in a variety of formats, including text HTML , binary GIF images , or even a compressed format like gzip that is layered on top of some other underlying format. Send the implicit HTTP response data. Figure 2â€™1 shows a single arrow going from the Web middle layer the servlet or JSP page to the client. But, there are really two varieties of data sent: Sending HTTP response data involves telling the browser or other client what type of document is being returned e. Many client requests can be satisfied by prebuilt documents, and the server would handle these requests without invoking servlets. In many cases, however, a static result is not sufficient, and a page needs to be generated for each request. There are a number of reasons why Web pages need to be built on-the-fly like this: For instance, the results page from search engines and order-confirmation pages at online stores are specific to particular user requests. Just remember that the user submits two kinds of data: Either kind of input can be used to build the output page. In particular, it is quite common to build a user-specific page based on a cookie value. The Web page is derived from data that changes frequently. For example, a weather report or news headlines site might build the pages dynamically, perhaps returning a previously built page if that page is still up to date. Source code for all examples in book: Java books, tutorials, documentation, discussion forums, and jobs: For example, an e-commerce site could use a servlet to build a Web page that lists the current price and availability of each sale item. In principle, servlets are not restricted to Web or application servers that handle HTTP requests but can be used for other types of servers as well. For example, servlets could be embedded in FTP or mail servers to extend their functionality. If the CGI program itself is relatively short, the overhead of starting the process can dominate the execution time. With servlets, the Java virtual machine stays running and handles each request with a lightweight Java thread, not a heavyweight operating system process. With servlets, however, there would be N threads, but only a single copy of the servlet class would be loaded. This approach reduces server memory requirements and saves time by instantiating fewer objects. Finally, when a CGI program finishes handling a request, the program terminates. This approach makes it difficult to cache computations, keep database connections open, and perform other optimizations that rely on persistent data. Servlets, however, remain in memory even after they complete a response, so it is straightforward to store arbitrarily complex data between client requests. Convenient Servlets have an extensive infrastructure for automatically parsing and decoding HTML form data, reading and setting HTTP headers, handling cookies, tracking sessions, and many other such high-level utilities. Besides, you already know the Java programming language. Why learn Perl too?

Chapter 2 : Intro and Overview: Why use Servlets & JSPs? - Head First Servlets and JSP, 2nd Edition [Bo

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Chapter 1 starts with the need for Servlets and JSP, introduction to HTTP protocol, difference between Servlets and CGI

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and even a short 2 minute intro to HTML!!! The whole chapter takes about 10 minutes but you learn a whole lot.

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Chapter 6 : Headfirst Servlets & JSP [Solved] (JSP forum at Coderanch)

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credit. Other people to. At O'Reilly: Our biggest thanks to Mike Loukides at O'Reilly, for starting it all, and helping to shape the Head First concept into a series. We love having an editor who is a Real Java Guy.

Chapter 8 : Head First Servlets and JSP, 2nd Edition - PDF Free Download - Fox eBook

Servlets-JSP. Exercises from Head First Servlets and JSP 2nd Edition. Chapter 1. It covers some basic topics: HTTP, Hypertext Transfer Protocol, the network protocol used on the Web.

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