Java Webserver for Displaying Logging Data

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Java programs output structured data as text on the console. This text is completely unstructured, which means that a user usually uses search mechanisms to navigate through it. Additionally, any kind of filtering of the information is usually done before producing the output. The task of this thesis is to develop a mechanism to use a web server to display the logging output of an application. The interface for producing logging output should be kept as simple as possible.

Features of the logging framework include:

– the web server should be started on a specified port on the local machine
– pages and subpages should be used to group information
– the web server should present the information in HTML format and it should be addressed using an URL
– the HTML document should include navigation
– the HTML tags should include CSS style sheet classes
– links between pages should be possible via a special syntax in the logged text
– logging information may be represented as simple text, in tabular form, or as a diagram
– the current state should be serializable for later reloading
– the application should be able to install a callback for data that is generated on demand

The logging framework should be tested by using it for displaying information of the Maxine virtual machine.

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