

Moodle plug-ins used for improving the performance of e-learning system*

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Abstract:

The primary objective of this study is conducting the comparative analysis of the structure Moodle LMS ver.1.9 and 2.0.3. The conceptual framework of the research is limited to those segments which have been found to have a direct impact on system performance. The results of general performance are presented in the introductory part of the paper, which contains the results of comparative analysis of these systems in different kinds of environments.

Studying the structural concept of this application has enabled the identification of the causal relations which were determined to have the direct impact on the low quality response and the stability of the LMS in practice. This kind of research requires stratified division of the applications into segments which includes the need for using different measuring instruments depending on the layer on which the tests were performed.

This paper offers practical recommendations for configuring the software which is used for running Moodle. These recommendations describe the principles of synchronization of the Web server configuration settings based on technical features of the available computer configuration (resources available to the author of the paper). On the basis of the results obtained in the part of the paper which describes the method of configuring the server, one is able to plan the hardware infrastructure for e-learning.

On the basis of the analysis of plug-ins that exist on standard and extended lists, the role of the plug-ins has been identified, as well as their importance and characteristics in the area of stability and responsiveness. The practical value of this segment of the analysis provides the answers to questions on how to configure the Moodle and which plug-ins are to be used in order to improve the performances of the application logic, and not jeopardize the system response time during the process.

Keywords: *LMS, Moodle, plug-ins*

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† http://sasastamenkovic.com/naucni_radovi/m45932/1.1/Moodle-Plug-in-ovi-za-unapredjenje-performansi-sistema-za-elektronko-ucenje.pdf

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