

ABSTRACT

Software AG is an enterprise software company which has many products under it. Being a product based company, it develops new products and/or new versions of existing products for which testing is the most integral part. These products dumps details information of the steps executed and abnormalities encountered in log files. While testing the log dumps of the products also needs to be analyzed because of its valuable contents. These dumps includes thousands of lines and manual analysis of this dump for abnormalities which is inefficient and time-consuming. Also this is not the best approach.

I have taken the project entitled **Log Utility and its Integration with Automation League Framework**, with the vision to reduce the manual effort and increase efficiency in the analysis of log files. This utility can record multiple 'live' log files simultaneously and analyses those for abnormalities. It also generates a clear report stating the various abnormalities found in the dumps. In cross-product testing, action in one product might create abnormalities in one or more dependent products, this utility because of its real time analysis process, help in detecting those abnormalities as well.

This utility mainly consist of three modules - Log Monitor and Recording, Error detector, Report Generation. Log Monitor and Recording is responsible for checking a 'live' log file for any changes. It provides commands to start or stop the recording of log files. The recorded portion is saved automatically for post processing. Error detector modules detects all known sorts of abnormalities in a log files. Report generation module is responsible for generating a report with the detected abnormalities.

In Software AG testing environment, testing can done both on local setups as well as remote setups. To meet the requirement, this utility is deployed as a web service. In order to use it with the existing automation test programs it is integrated with the testing framework - **Automation League Framework**. Currently this utility is used in our regular testing scenario. It is increasing organization's productivity by reducing manpower and time, thus proving to be a great benefit for the organization.

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