

Summary

Msc Thesis Subject: Performance testing, analysis and tuning of Web applications
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Keywords:

Testing, performance, performance testing, types of testing, testing approaches, metrics, reliability, testing tools, performance analysis, tuning.

Annotation:

The performance of a software system is a key consideration when its intended audience is assessing its quality. For this reason, performance testing is an important part of the software process in many software projects. Msc Thesis aims to present information and knowledge about performance testing. It has theoretical and practical aspect, that can be of help to all quality assurance engineers, developers, analysts, and project managers that would like to learn more about this area and need detailed and systematic information. The diploma covers the basic definitions, testing approaches and best practices for performance testing, the various metrics that are collected during tests and their interdependencies; it also includes an overview of the most popular testing tools and their characteristics. The instrument Microsoft ACT is examined in a much more detail and is used in a practical example for performance testing and analysis of a given Web application.