

软件测试技术的研究与应用

摘 要

当前软件的应用已于我们的生活融为一体，无论是移动端的应用还是 Web 端的应用，用户在使用时接触的第一个功能就是登陆功能，如何检验登陆功能的正常保证软件的质量，成为了软件测试过程中重要的一部分。论文首先介绍测试测试的对象和测试的目标，在对需求分析后制定相应的测试计划。在这之后我们根据制定的测试计划，进行测试过程中的技术实现，包含了测试用例的编写和其中应用到的测试工具的部署与学习，以及一些测试数据的前期获取。在准备完成后，我们对功能测试和性能测试依据测试计划展开测试，并对执行的结果进行了总结，得出我们本次的测试结论。论文的最后对测试过程中一些问题的总结和改进措施，达到进一步优化测试流程，提高测试效率，保证产品质量的目的。

关键词：黑盒测试；功能测试；性能测试

ABSTRACT

The application of the current software has been integrated into our lives. Whether it is a mobile application or a web application, the first function that users touch when using is the login function. How to check the normality of the login function and ensure the quality of the software has become An important part of the software testing process. The thesis first introduces the test objects and test objectives, and formulates corresponding test plans after analyzing the requirements. After that, we carried out the technical realization of the test process according to the test plan made, including the preparation of test cases and the deployment and learning of the test tools used in them, as well as the preliminary acquisition of some test data. After the preparation was completed, we carried out tests on the functional test and performance test according to the test plan, and summarized the results of the execution, and reached our test conclusions this time. At the end of the thesis, it summarizes some problems in the testing process and measures to improve it to further optimize the testing process, improve testing efficiency, and ensure product quality.

Keywords: black box testing; functional testing; performance testing

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