

Research on software testing issues and automated testing tools

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Abstract: This topic focuses on the necessity of software testing in information technology practice, aiming to analyze and evaluate the key challenges related to the testing process. Accordingly, the study will apply theoretical methods combined with experimentation to build an effective test automation system. The expected results will contribute to improving the software development process and enhancing product quality.

Keywords: Software testing, Automated testing tools, Theoretical research, Experimentation, Software quality