

# Software testing with JUnit tool

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**Abstract:** This topic aims to research and apply automated testing methods in the software development process through the use of the JUnit tool. The context for choosing this topic stems from the fact that software testing plays a crucial role in ensuring the quality of the final product. The project's objective is to build an automated testing process system for Java projects by implementing JUnit during the coding phase. The approach includes both theoretical research on software testing and experimentation by applying the JUnit tool to several real-world projects. The significance of this topic lies in providing an effective solution for software development teams seeking to optimize their testing processes, while also contributing to enhancing knowledge about automated testing within the programmer community.

**Keywords:** Software testing, JUnit, Software development, Automated testing, Java