

# **Research on the Nuid software testing tool in C# applied in unit testing and writing a demo program**

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**Abstract:** In the context of rapidly developing information technology, ensuring software quality is an urgent requirement. This topic focuses on researching and deploying the Nuid testing tool for the C# programming language. The objective is to build an automated system for unit testing, contributing to improving software development efficiency. The research method combines theory with experimentation to evaluate the tool's performance and accuracy. The expected results will provide a useful solution for the community of programmers and software developers.

**Keywords:** Software testing, C#, NUnit, Unit testing, Testing tools