

PA2552 - Software Testing

Lean Testing Principles

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Notice of AI usage:

Scopus "AI Query Builder" provided by Blekinge Institute of Technology has been used for the purpose of building database queries in search of relevant articles.

1 Introduction

Testing is an essential part in most large-scale projects, whether that would be in industrial manufacturing plants or software development. The practice of ensuring functionality, reliability and safety of crucial mechanisms is a foundational requirement for any kind of development. There are multiple ways of evaluating different types of metrics for a variety of use cases, some wider known types include: stress testing, performance testing and smoke testing [1].

The purpose of this technical report is to collect, analyse and summarise relevant information touching on the subject of lean software testing. More specifically, this report aims to answer the following questions:

- What do I, the author, think are the most important principles of lean software testing and why they should be considered important
- In which situations can the principles of lean software testing be applicable in general?
- In which situations can the principles of lean software testing be applicable and how would they be applied for me, the author?

2 Methodology

The research method employed by this report uses the Scopus as the journal database for data gathering.

3 Results

4 Analysis

5 Discussion

6 Conclusions

References

- [1] S. Susnjara and I. Smalley, “What is Software Testing? — IBM — ibm.com,” <https://www.ibm.com/think/topics/software-testing>, [Accessed 02-02-2026].