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International Journal of Advanced Trends in Computer Science and Engineering
Volume 8, Issue 4, July 2019, Pages 1283-1288

Factors influence novice programmers toward test first approach

(Article) (Open Access)

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Abstract

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Test First is one of the Agile development approaches. In practice, Test First needs a developer to design test cases followed by the development of actual codes. The previous study on Test First has been covering the quality of the codes, either internal quality of codes, external quality of codes, or productivity of codes. Also, research on the behavior of the developers toward Test First based on the developers experiences implementing the Test First approach. This research is looking into the behavior of developers, which focus on finding the factors that influence novice programmers' to execute Test First by using the Theory of Planned Behavior as the theoretical framework. The Theory of Planned Behavior framework is used to identify the factors that contribute to the Intention of novice programmers' to implement Test First. The factors were identified quantitatively using a set of questionnaire. The results indicated that Behavioral Beliefs, Attitude towards Behavior, Normative Beliefs, and Subjective Norms are the factors that influenced novice programmers to implement Test First. © 2019, World Academy of Research in Science and Engineering. All rights reserved.

SciVal Topic Prominence ⓘ

Topic: Software testing | Software engineering | Testing

Prominence percentile: 82.519 ⓘ

Author keywords

Test First Theory of Plan Behavior

ISSN: 22783091

Source Type: Journal

Original language: English

DOI: 10.30534/ijatcse/2019/39842019

Document Type: Article

Publisher: World Academy of Research in Science and Engineering

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