

FAKTOR YANG MEMPENGARUHI PENGIMPLEMENTASIAN SCRUM PADA SOFTWARE ENGINEER YANG BARU PERTAMA KALI MENERAPKAN SCRUM

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Abstract

The application of agile with the scrum methodology has been widely applied by the company to obtain a more effective way and get the best results on project management. In implementing scrum, there are challenges such as work that must be specific, organizational culture, frequent changes, and minimal communication. The biggest challenge in implementing scrum is the lack of knowledge or resource capabilities on scrum itself. With these problems, it is necessary to know what factors can affect software engineers, especially those who are running scrum for the first time. In this study, the sprint data that are used is taken from a technology company, then analyzed using a descriptive analysis method. The data used are the number of planned velocity and actual velocity to calculate the plan fulfillment. To get results that affect the implementation of scrum, a survey using a likert scale is carried out on software engineers by looking at the largest contribution of factors to the implementation of scrum. From the results of the research, it shows that every software engineer team that implements scrum for the first time will experience an increase over time in the fulfillment plan, which means that the implementation of scrum will increase; and increase in terms of productivity. The factors that most influence the implementation of scrum which have been ordered from largest to smallest are the importance of teamwork and communication among members, discussing product backlog needs and sprint retrospectives as well as communication with product owners. It is hoped that this research can provide an overview of the process that occurs for companies that do not have time to conduct experiments and want to know what influences the implementation of scrum.

Keywords: *scrum, software engineer, planned velocity, actual velocity, plan fulfillment, sprint retrospective*
