

Rekomendasi Proses Pengembangan Perangkat Lunak Berbasis Scrum dengan Scrum at Scale: Studi Kasus Software House XYZ = Recommendation for Scrum-Based Software Development Process with Scrum at Scale: A Case Study of Software House XYZ

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Abstrak

Software House XYZ menggunakan Scrum sebagai salah satu proses pengembangan perangkat lunaknya. Namun, Software House XYZ memiliki beberapa masalah dalam penerapan Scrum sehingga menyebabkan keterlambatan pada rilis produk mereka. Terdapat 2 masalah yang menjadi fokus pada penelitian ini yaitu pengendalian tim Scrum dengan ukuran yang besar dan pengendalian komitmen pekerjaan tim. Scrum at Scale adalah kerangka kerja yang dipilih menjadi solusi kedua permasalahan tersebut. Sebelum menerapkan Scrum at Scale, perlu dilakukan penilaian tingkat kematangan Scrum yang saat ini diterapkan oleh Software House XYZ. Scrum Maturity Model yang disesuaikan dengan Scrum Guide 2020 dipilih sebagai metode yang dapat menilai seberapa baik perusahaan menerapkan Scrum. Kuesioner yang berisi 81 praktik disebar ke 40 tim pengembang. Data hasil kuesioner yang valid sebanyak 10 kuesioner. Dari hasil penilaian menggunakan Scrum Maturity Model, kematangan penerapan Scrum di Software House XYZ saat ini berada di tingkat 1 Initial. Sebanyak 61 praktik diusulkan sebagai perbaikan proses Scrum. Rekomendasi rancangan Scrum at Scale dapat diterapkan apabila perbaikan proses Scrum telah dilakukan. Rekomendasi disusun mengikuti kerangka kerja yang ada di Scrum at Scale Guide 2022. Validasi terhadap rekomendasi rancangan Scrum at Scale telah dilakukan peneliti melalui wawancara dengan perwakilan dari Software House XYZ. Dari hasil validasi, perusahaan tertarik untuk mencoba menerapkan Scrum at Scale. Namun, perusahaan setuju untuk meningkatkan proses Scrum yang ada di perusahaan terlebih dahulu sebelum menerapkan Scrum at Scale secara utuh.

..... Software House XYZ utilizes Scrum as one of its software development processes. However, the company encounters some challenges in implementing Scrum, leading to delays in their product releases. This research focuses on two identified issues: controlling a large Scrum team and managing team commitment to tasks. Scrum at Scale is chosen as the framework to address these problems. Before implementing Scrum at Scale, an assessment of the current Scrum maturity level at Software House XYZ is deemed necessary. The Scrum Maturity Model, aligned with the Scrum Guide 2020, is selected as the method to evaluate the company's Scrum implementation. A questionnaire containing 81 practices is distributed to 10 development team members. Valid data from 10 questionnaires are collected. The assessment using the Scrum Maturity Model reveals that the current Scrum maturity level at Software House XYZ is at the Initial stage. Sixty-one practices are proposed for improving the Scrum process. Recommendations for the Scrum at Scale design can be implemented once these process improvements in Scrum are carried out. The design recommendations adhere to the framework outlined in the Scrum at Scale Guide 2022. The researcher validates the Scrum at Scale design recommendations through interviews with representatives from Software House XYZ. The validation results indicate the company's interest in trying out Scrum at Scale. However, the company agrees to enhance its existing Scrum processes first before fully adopting Scrum at Scale.