

# Perancangan prosedur operasional standar requirement engineering pada pengembangan perangkat lunak: studi kasus subdirektorat integrasi pengolahan data Badan Pusat Statistik = Design of standard operating procedure for requirement engineering in software development case study data processing integration subdirectorates statistics indonesia

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## Abstrak

### <b>ABSTRAK</b><br>

Sebuah rancangan prosedur operasional standar POS untuk requirement engineering pada pengembangan perangkat lunak di Subdirektorat Integrasi Pengolahan Data Subdit IPD, Badan Pusat Statistik BPS, telah dihasilkan. BPS merupakan lembaga pemerintah non kementerian yang bertugas untuk menyelenggarakan kegiatan sensus dan survei. POS requirement engineering disusun menggunakan soft system methodology SSM yang telah dimodifikasi dan scrum sebagai metode pengembangannya. Kebutuhan POS dirancang berdasarkan studi literatur, SBOK trade; Guide sebagai referensi best practice, serta penelitian sebelumnya untuk menentukan tahapan proses requirement engineering pada scrum. Wawancara dengan analisis tematik juga dilakukan untuk mengetahui kebutuhan organisasi BPS akan POS requirement engineering. Rancangan POS requirement engineering yang dihasilkan terdiri dari tiga buah POS, yaitu POS Tahap Inisiasi, POS Tahap Pengembangan, dan POS Tahap Perencanaan Iterasi. Konsep POS requirement engineering divalidasi kepada narasumber di Subdit IPD BPS yang telah mengikuti pelatihan pengembangan perangkat lunak dengan menggunakan metode scrum. Selain itu, hasil rancangan POS juga divalidasi kepada Kepala Subdit IPD BPS dan menunjukkan bahwa rancangan POS dapat diimplementasikan namun memerlukan dukungan pimpinan dalam pelaksanaannya. Hasil rancangan POS requirement engineering ditujukan untuk standarisasi proses requirement engineering pada pengembangan perangkat lunak di Subdit IPD BPS. Dengan dihasilkannya rancangan POS requirement engineering ini, diharapkan perangkat lunak yang dihasilkan oleh Subdit IPD BPS menjadi berkualitas.

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### <b>ABSTRACT</b><br>

A design of Standard Operating Procedure SOP for requirement engineering in software development in Data Processing Integration Subdirectorates Statistics Indonesia was resulted. Statistics Indonesia is non ministerial government institution that is responsible for conducting statistical surveys. SOP for requirement engineering was designed using modified soft systems methodology SSM. Scrum method is used as an approach. The needs of SOP is derived from literature, SBOK trade Guide as best practice, and previous research to determine the process in scrum. Interview with thematic analysis was also conducted to determine the needs of requirement engineering SOP from the organizations. The design of requirement engineering SOP consists of three steps Initiation, Development, and Iteration Planning. Concepts of requirement engineering SOP have been validated to the interviewees in Data Processing Integration Subdirectorates, who have had training software development using scrum. Furthermore, The design of SOP has been validated to the Chief of Data Processing Integration Subdirectorates. The result from validation process show that the design of SOP for requirement engineering can be implemented in Data Processing

Integration Subdirectorate, but still need the support from high level management. The result is aimed to standardize the process of requirement engineering in Data Processing Integration Subdirectorate. With this SOP design, software produced by Data Processing Integration Subdirectorate is expected to achieve the quality.