

Pengembangan Aplikasi Tresuri Bank Indonesia dan Pengujian Kualitas Aplikasi dengan Standar ISO 9126 = Development of Bank Indonesia Treasury Application and Application Quality Testing Based on ISO 9126 Standard

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Abstrak

Bank Indonesia, sebagai bank sentral Republik Indonesia, memiliki peran penting dalam menjaga stabilitas ekonomi nasional, termasuk melalui proses operasional di Divisi Operasional Sistem Tresuri dan Layanan Perbankan. Saat ini, pengelolaan data dan proses tresuri masih terpisah, menyebabkan kesulitan dalam proses audit dan penyelesaian permohonan tresuri. Untuk menjawab tantangan ini, dilakukan pengembangan aplikasi berbasis Microsoft 365 guna meningkatkan efisiensi kerja serta menguji kualitasnya menggunakan standar ISO 9126. Penerapan digitalisasi ini mendukung Visi Bank Indonesia sendiri, yaitu “Menjadi bank sentral digital terdepan dengan tata kelola kuat yang berkontribusi nyata terhadap perekonomian nasional dan terbaik di antara negara emerging markets untuk Indonesia Maju”. Aplikasi dikembangkan dengan Software Development Life Cycle metode Agile dalam enam tahap berulang: Planning, Design, Development, Testing, Deployment, dan Review and Maintenance. Komponen utamanya mencakup Microsoft Power Apps (frontend), Power Automate, SharePoint (backend), Power BI, serta integrasi dengan Ollama untuk fitur chatbot AI. Pengujian aplikasi dilakukan berdasarkan enam dimensi kualitas ISO 9126, yaitu Functionality, Reliability, Usability, Efficiency, Maintainability, dan Portability. Penelitian ini menunjukkan bahwa transformasi digital melalui aplikasi internal dapat meningkatkan efisiensi operasional dan akurasi data secara signifikan. Penerapan ini sejalan dengan visi Bank Indonesia untuk menjadi bank sentral digital terdepan dengan tata kelola kuat dan kontribusi nyata bagi perekonomian nasional. Selain itu, solusi ini berpotensi diadaptasi oleh unit kerja lainnya sebagai model digitalisasi yang efektif.

.....Bank Indonesia, as the central bank of the Republic of Indonesia, plays a crucial role in maintaining national economic stability, including through operational processes in the Treasury System Operations and Banking Services Division. Currently, treasury data and processes are managed separately, leading to difficulties in auditing and handling treasury requests. To address this issue, an application based on Microsoft 365 was developed to improve work efficiency and was evaluated using the ISO 9126 quality standard. This digitalization effort supports Bank Indonesia's vision: "To become a leading digital central bank with strong governance and tangible contributions to the national economy, and the best among emerging market countries for an Advanced Indonesia." The application was developed using the Software Development Life Cycle with Agile methodology, which includes six iterative stages: Planning, Design, Development, Testing, Deployment, and Review and Maintenance. Key components include Microsoft Power Apps (frontend), Power Automate, SharePoint (backend), Power BI, and integration with Ollama for an AI chatbot feature. The application was tested across six ISO 9126 quality dimensions: Functionality, Reliability, Usability, Efficiency, Maintainability, and Portability. This study demonstrates that digital transformation through internal applications can significantly enhance operational efficiency and data accuracy. The implementation aligns with Bank Indonesia's digital vision and offers a scalable model for

other units seeking effective digital solutions.