

INTISARI

RANCANG BANGUN TENDERFY: APLIKASI KATALOG TENDER TERPADU BERBASIS MOBILE UNTUK JASA KONSULTAN KONSTRUKSI PADA SITUS LAYANAN PENGADAAN SECARA ELEKTRONIK (LPSE)

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Pemerintah Indonesia telah menerapkan *e-government* untuk meningkatkan layanan publik, termasuk sistem *e-procurement* LPSE di bawah LKPP. Namun, masalah akses dan pembaruan data pada platform INAPROC dan API Satu Data eProc mengganggu CV Polaris, penyedia jasa konstruksi, yang kesulitan dalam mengakses data tender dan menghadapi administrasi manual yang tidak efisien. Kesulitan yang dihadapi oleh CV Polaris dalam proses manajemen tender mendorong pengembangan aplikasi Tenderfy. Aplikasi ini dibangun dengan mengimplementasikan teknik *web scraping* menggunakan Kotlin, Firestore, Jsoup, dan MPAndroidChart. Metode pengembangan aplikasi ini menggunakan *Rapid Application Development* (RAD), yang melibatkan tahap perencanaan kebutuhan (*requirement planning*), perancangan sistem (*design workshop*), dan implementasi (*implementation*). Aplikasi Tenderfy berhasil dibangun dengan fitur utama yang membantu pengguna mencari, menyimpan, dan memantau informasi tender melalui perangkat *mobile*. Untuk memastikan fungsionalitas dan kegunaan fitur yang dikembangkan, aplikasi telah melalui dua tahap pengujian: *alpha testing* dan *beta testing*. Hasil *alpha testing* menunjukkan bahwa aplikasi berfungsi dengan baik dan memiliki performa yang memadai. Selanjutnya, *beta testing* menunjukkan aplikasi sebagai "sangat layak" dalam hal fungsionalitas, efisiensi, dan kegunaan. Kedua pengujian tersebut membuktikan bahwa Tenderfy beroperasi dengan baik dan efektif dalam mendukung proses manajemen tender di CV Polaris.

Kata kunci : *e-procurement*, aplikasi *mobile*, *web scraping*, Layanan Pengadaan Secara Elektronik (LPSE), Jsoup

ABSTRACT

DESIGN AND DEVELOPMENT OF TENDERFY: AN INTEGRATED MOBILE- BASED TENDER CATALOG APPLICATION FOR CONSTRUCTION CONSULTING SERVICES ON ELECTRONIC PROCUREMENT SERVICE (LPSE) SITES

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The Government of Indonesia has adopted e-government to enhance the effectiveness, efficiency, and transparency of public services, including through the e-procurement system managed by LPSE under LKPP. However, accessing tender data on the INAPROC platform and the Satu Data eProc API remains problematic, with issues such as inconsistent access and delayed document updates. These issues affect CV Polaris, a construction service provider, which faces difficulties in accessing tender data and is burdened by manual administrative processes, thus reducing efficiency and increasing the risk of errors. The challenges encountered by CV Polaris in tender management prompted the development of the Tenderfy application. This application was developed by implementing web scraping techniques to automatically collect tender data from various LPSE portals. The application development method utilized Rapid Application Development (RAD), which includes stages of requirement planning, system design, and implementation. According to the research findings, the Tenderfy application was successfully developed with features that enable users to search, save, and monitor tender information via mobile devices. The application was tested through two phases: alpha testing and beta testing. The results of alpha testing demonstrated the application's functional success and performance, while beta testing indicated that the application was "highly suitable" in terms of functionality, efficiency, and usability. Both testing phases confirmed that the application performs well and supports tender management processes at CV Polaris.

Keyword : *e-procurement , mobile app, web scraping, Layanan Pengadaan Secara Elektronik (LPSE), Jsoup*