

**PERANCANGAN SOLUSI PELAPORAN PDDIKTI
BERDASARKAN EVALUASI *BUSINESS PROCESS* DI
UNIVERSITAS ANDALAS**

TUGAS AKHIR



Oleh:

EZRA ANDHIKA PUTRA BASYA

2110932045

Pembimbing:

Dr. Eng. Ardhian Agung Yulianto, S.Kom., M.T.

**DEPARTEMEN TEKNIK INDUSTRI
FAKULTAS TEKNIK
UNIVERSITAS ANDALAS
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ABSTRAK

Pelaporan data akademik ke Pangkalan Data Pendidikan Tinggi (PDDikti) di Universitas Andalas dilakukan melalui WSFeeder sebagai penghubung data dari Sistem Informasi Akademik (SIA) fakultas menuju NeoFeeder. Dalam pelaksanaannya, proses pelaporan masih memerlukan penyesuaian data melalui template Excel dan pemantauan status pelaporan di tingkat fakultas masih terbatas, sehingga pada kondisi tertentu dapat memunculkan kebutuhan pengecekan ulang ketika terjadi ketidaksesuaian data pada tahap akhir. Penelitian ini bertujuan memodelkan proses bisnis saat ini (as-is), mengevaluasi pemborosan aktivitas dan penyebabnya, serta merancang proses bisnis usulan (to-be) yang didukung pengembangan purwarupa WSFeeder. Metode yang digunakan adalah Business Process Improvement (BPI) dengan pemodelan BPMN, evaluasi aktivitas menggunakan Value-Added Assessment (VAA), verifikasi fungsional purwarupa melalui black-box testing, serta pengujian tentang perbandingan waktu kondisi as-is dan to-be.

Hasil pengolahan data menghasilkan BPMN as-is untuk proses pelaporan PDDikti yang menggambarkan keterkaitan pengelolaan data akademik, pelaporan melalui WSFeeder dan NeoFeeder, verifikasi PDDikti, serta alur perbaikan data apabila ditemukan ketidaksesuaian. Evaluasi VAA terhadap 45 aktivitas menunjukkan 3 aktivitas RVA, 15 aktivitas BVA, dan 27 aktivitas NVA. Purwarupa WSFeeder kemudian dimodifikasi melalui penambahan database penampung, pemrosesan berbasis batch yang menghasilkan keluaran data valid dan invalid beserta keterangan kesalahan, serta menu pendukung berupa pengaturan periode pelaporan, pengaturan akun fakultas, dashboard pelaporan, dan riwayat pelaporan.

Rancangan proses usulan menekankan penguatan mekanisme pengendalian kualitas data sebelum pelaporan ke PDDikti melalui validasi awal, pencatatan riwayat pemrosesan, mekanisme tindak lanjut perbaikan data, serta standardisasi kelengkapan input nilai dan pengajuan pembukaan periode lampau. Hasil pengujian menunjukkan efisiensi waktu sebesar 53,90% pada penyiapan file ketika template belum diunduh, 30,33% ketika template telah diunduh, serta 88,45% pada pemeriksaan, pemisahan, dan penyiapan file data valid serta invalid. Penelitian ini dibatasi pada perancangan proses, pengembangan purwarupa, verifikasi fungsional, dan pengujian waktu, sehingga hasil yang diperoleh belum menggambarkan dampak aktual penerapan operasional secara penuh di Universitas Andalas.

Kata Kunci: *Pelaporan PDDikti, Business Process Improvement, BPMN, Value-Added Assessment, WSFeeder.*

ABSTRACT

Academic data reporting to *Pangkalan Data Pendidikan Tinggi* (PDDikti) at Andalas University is carried out through WSFeeder as a connector from *Sistem Informasi Akademik* (SIA) to NeoFeeder. In practice, the reporting workflow still relies on Excel templates for data formatting, while faculty-level monitoring of reporting status remains limited. Under certain conditions, this leads to additional rechecking when discrepancies are identified at the final stage. This study aims to model the current business process (as-is), evaluate wasteful activities and their causes, and design a proposed business process (to-be) supported by a WSFeeder prototype. The study applies a Business Process Improvement (BPI) method using BPMN for process modeling, Value-Added Assessment (VAA) for classifying activities, black-box testing for functional verification, also testing on the comparison for as-is and to-be conditions.

The data processing results in an as-is BPMN for the PDDikti reporting process that describes the relationship between academic data management, reporting via WSFeeder and NeoFeeder, PDDikti verification, and the data correction flow if discrepancies are found. VAA evaluation of 45 activities shows 3 RVA activities, 15 BVA activities, and 27 NVA activities. The WSFeeder prototype was then modified by adding a holding database, batch-based processing that produces valid and invalid data output along with error information, and supporting menus in the form of reporting period settings, faculty account settings, reporting dashboards, and reporting history.

The proposed process design emphasizes strengthening data quality control mechanisms before reporting to PDDikti through initial validation, recording processing history, data correction follow-up mechanisms, and standardization of value input completeness and submission of opening of past periods. Test results show time efficiency of 53.90% in file preparation when the template has not been downloaded, 30.33% when the template has been downloaded, and 88.45% in checking, separating, and preparing valid and invalid data files. This research is limited to process design, prototype development, functional verification, and time testing, so the results obtained do not yet reflect the actual impact of full operational implementation at Andalas University.

Keywords: PDDikti Reporting, Business Process Improvement, BPMN, Value-Added Assessment, WSFeeder.