

**APLIKASI PENDAFTARAN PELATIHAN DAN SERTIFIKASI
TENAGA KERJA BERBASIS WEB PADA DINAS TENAGA
KERJA DAN TRANSMIGRA (DISNAKERTRANS)
KABUPATEN BENGKALIS KECAMATAN MANDAU
Studi Khusus : Unit Pelaksana Teknis Latihan Kerja (UPT LK
DISNAKERTRANS)**

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ABSTRAK

Proses pendaftaran pelatihan dan sertifikasi tenaga kerja pada Dinas Tenaga Kerja dan Transmigrasi (DISNAKERTRANS) Kabupaten Bengkalis Kecamatan Mandau masih dilakukan secara manual sehingga menyebabkan peserta harus datang langsung ke kantor, kesulitan dalam pengelolaan data, serta keterlambatan proses verifikasi dan penerbitan sertifikat. Penelitian ini bertujuan membangun aplikasi pendaftaran pelatihan dan sertifikasi tenaga kerja berbasis web untuk mempermudah proses pendaftaran peserta serta membantu pihak UPTLK DISNAKERTRANS dalam mengelola data pelatihan dan sertifikasi. Metode pengembangan sistem yang digunakan adalah *Waterfall* dengan implementasi menggunakan *framework Laravel*, bahasa pemrograman PHP, dan *database MySQL*. Pengujian dilakukan menggunakan *Black Box Testing* dan pengujian terhadap pihak UPTLK DISNAKERTRANS sebagai mitra pengguna. Hasil pengujian *Black Box* menunjukkan bahwa seluruh fitur utama aplikasi berjalan sesuai fungsinya. Hasil pengujian terhadap pihak UPTLK DISNAKERTRANS menunjukkan bahwa aplikasi dapat digunakan pengelolaan data peserta, pelatihan, jadwal, pendaftaran, serta sertifikasi dan repotr PDF dan Excel. Pendaftaran peserta bisa mendaftar secara online tidak perlu datang ke kantor dan mengupload berkas langsung di aplikasi. Dengan demikian, aplikasi ini dapat mempermudah proses pendaftaran serta pengelolaan data pelatihan dan sertifikasi.

Kata kunci: Pendaftaran, Pelatihan, Sertifikasi, *Laravel*, *Black Box Testing*.

**WEB-BASED WORKFORCE TRAINING AND CERTIFICATION
REGISTRATION APPLICATION AT THE MANPOWER AND
TRANSMIGRANT WORKFORCE SERVICE (DISNAKERTRANS)
OF BENGKALIS REGENCY, MANDAU DISTRICT**

*Case Study: Technical Implementation Unit for Job
Training (UPT LK DISNAKERTRANS)*

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ABSTRACT

The registration process for workforce training and certification at the Department of Manpower and Transmigration (DISNAKERTRANS) of Bengkalis Regency, Mandau District, is still conducted manually, requiring participants to visit the office in person, causing difficulties in data management, and resulting in delays in the verification process and certificate issuance. This study aims to develop a web-based workforce training and certification registration application to facilitate the participant registration process and assist UPTLK DISNAKERTRANS in managing training and certification data. The system development method used is the Waterfall method, implemented using the Laravel framework, PHP programming language, and MySQL database. Testing was conducted using Black Box Testing and testing involving UPTLK DISNAKERTRANS as the user partner. The results of Black Box Testing show that all main application features function as intended. The results of testing involving UPTLK DISNAKERTRANS show that the application can be used effectively and meets the needs for managing participant data, training, schedules, registration, and certification. The success of the application was measured based on the conformity of its functions with the testing scenarios and user assessments of the system's ease of use. Therefore, the developed application can facilitate the registration process and the management of training and certification data.

Keywords: Registration, Training, Certification, Laravel, Black Box Testing.