

PENGEMBANGAN SISTEM INFORMASI *TOP UP* PRODUK DIGITAL BERBASIS WEBSITE DENGAN PENERAPAN KEAMANAN MENGGUNAKAN SSO

Nama : Muhammad Kurniawan Akbar

NIM : 6404221120

Dosen Pembimbing : Nurmi Hidayasari, S.T., M.Kom

ABSTRAK

Meningkatnya penggunaan produk digital seperti pulsa, voucher game, dan token listrik mendorong kebutuhan akan sistem top up berbasis website yang efisien dan aman. Namun, masih banyak layanan top up digital yang menggunakan proses manual dan memiliki tingkat keamanan yang rendah, sehingga berpotensi menimbulkan keterlambatan layanan dan risiko kebocoran data. Penelitian ini bertujuan untuk mengembangkan sistem informasi top up produk digital berbasis website dengan penerapan *Single Sign-On (SSO)* guna meningkatkan efisiensi transaksi dan keamanan akun pengguna. Metode pengembangan sistem yang digunakan adalah *Software Development Life Cycle (SDLC)* dengan model *Waterfall* yang meliputi tahap analisis kebutuhan, perancangan sistem, implementasi, pengujian, deployment, dan pemeliharaan. Sistem dikembangkan menggunakan *framework Laravel* dengan integrasi *API Digiflazz* untuk otomasi produk digital serta *payment gateway* Midtrans sebagai media pembayaran. Fitur keamanan yang diterapkan meliputi autentikasi *Single Sign-On (SSO)*, serta *middleware* keamanan Laravel.

Kata kunci: Top Up Produk Digital, Sistem Informasi, Website, Keamanan Sistem, *Single Sign-On (SSO)*.

***DEVELOPMENT OF A WEBSITE-BASED DIGITAL PRODUCT
TOP-UP INFORMATION SYSTEM WITH THE
IMPLEMENTATION OF SECURITY USING SINGLE SIGN-ON
(SSO)***

Nama : Muhammad Kurniawan Akbar

NIM : 6404221120

Dosen Pembimbing : Nurmi Hidayasari, S.T., M.Kom

ABSTRACT

The increasing use of digital products such as mobile credit, game vouchers, and electricity tokens has created a demand for website-based top-up systems that are efficient and secure. However, many digital top-up services still rely on manual processes and lack adequate security mechanisms, resulting in service delays and potential data security risks. This research aims to develop a website-based digital product top-up information system with the implementation of Single Sign-On (SSO) to enhance transaction efficiency and user account security. The system was developed using the Software Development Life Cycle (SDLC) with the Waterfall model, consisting of requirement analysis, system design, implementation, testing, deployment, and maintenance. The application was built using the Laravel framework and integrated with the Digiflazz API for automated digital product processing and the Midtrans payment gateway for secure payment transactions. Security features implemented include Single Sign-On (SSO), and Laravel security middleware.

Keywords: *Digital Product Top-Up, Information System, Website, Security, Single Sign-On (SSO).*