ABSTRACT

Sistem Informasi Administrasi Kependudukan (SIAK) is one type of software that

can be used to help process data management and recording of personal data on the

population of one government agency that is engaged in the administration of residence

services.

This final project created a system where the filling process of the SIAK

application done not only through the website but also via SMS by using the technology of

SMS Gateway. SMS Gateway System is built with three main areas, Gammu as a special

tool's server for SMS Gateway, PHP as a programming language, and MySQL as a

database server. Gammu connect a computer to a cell phone which acts as a server in the

processes of sending and receiving SMS. MySQL is used to store data which comes from

Gammu and also the information from the web application. PHP itself is used to create

web applications that process the data.

Tests conducted on this system are divided into two kinds, namely testing the

functionality of the system and test the system performance. Functional test is done by

testing the function or any process that occurs in the application either from the client side

and admin, and the result is that every function in this application can run properly. In

performance testing measured the difference between a sms delivery time to time received

a reply. The result is the average time required was 50-50.6 seconds if you use the same

operator between the client and admin and 64.99 seconds if you use different operators.

While for the web server load testing to determine the working capacity of the web by

accessing the results on the web by 400 virtual users started to have an error in the access.

Keywords: SIAK, SMS Gateway, Gammu, XAMPP

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