

ABSTRACT

Reporting represents one of important part in monitoring mechanism at an organization. At company, specially which has branch or business unit under them, reporting mechanism oftentimes must be done from one office to another office, like from one branch office to head office. This form of reporting needs delivering activity so that the report can be accepted by head office. PT. Perkebunan Nusantara VIII which has 29 tea plantation and processing factory has applying periodical reporting mechanism to the head office which must be done by entire plantation and processing factory. Each plantation and the processing factory have to deliver its operational report to head office periodically, start from daily until annual. The location of plantation and processing factory which spread over some region in West Java causes some problem correlated with report delivering process. Delivering process which still using land transportation have some weakness in its expense and also in its delivery time. For that reason, in this Final Assignment the writer try to design an Operational Report Delivery Application which utilize GSM/GPRS modem. GSM/GPRS modem utilization in this application aim to decrease the expense of delivery and also quicken delivery time.

Designing process in this final work starts with arranging PC – to GPRS network interface. PC is connected with GPRS network using a Fargo Maestro 100 GSM/GPRS modem, which interfaced to PC through communication port (COM1). Next phase is to build a program for sender part of application. This program is built using Borland Delphi 7 programming software. After that, writer also build a web page which will put down at FTP server. This web is built in PHP language and has main function for presenting a report.

Report file discussed in this research including weekly reports. Those report are kept in XML format in order to facilitate delivery process through GPRS network. Report delivery is conducted at sender part of application. To read a report, user may use web page provided at server.

As a result of this research, writer concluded that report delivery application which utilize GSM/GPRS modem can deliver report with low expense. The transfer rate of GPRS network also enable delivery process to be done during shorten period. The user interface designed facilitate user to run all function in this application easily. In other way, presentation of report which conducted in web page allow every part in the head office to access the report in online mode.

Keywords : Report delivery, GSM / GPRS modem.

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