Abstract

The need for a real time embedded systems is now increasing. In broad principle of

real time embedded systems are already used in many fields, industries, households, and

specific purposes such as the field of telemetry systems. Telemetry is a technology that

allows the remote measurement and reporting of information to the designer or operator of

the system, which is expected to provide benefits in terms of time and cost savings rather

than direct observation. Basically telemetry rifers to wireless technologies such as using

radio communication, but can also use a wire transmission medium (wired).

This system is built on the J2EE. To read the information transmitted by the

observation of the fuel sensor on the BTS's generator via a GSM module which will then

be stored in a database using Gammu SMS Gateway. J2EE will feature the observations

into a chart of volume and the indicator color in order to facilitate the reading of data. The

application will also generate a notification form on the computer as a warning alarm if the

volume of fuel have crossed the minimum line that previously determined.

Having done the analysis and design, it can be seen that the features in the system is

working correctly. Finally, testing has been done so it can be concluded that, overall, this

system may well facilitate the observation of the fuel in the generator at BTS.

Keywords: Telemetry, Java Enterprise Edition, SMS Gateway