

ABSTRACT

Telemetry system has been designed and implemented to use short message services in GSM network as a medium of data transmission. Delivery process measurement data from the SMS protocol performed by the control station in the form of a mobile device that supports one of the Java platform that is Java Android.

In this final project, used the Android smartphone devices to design and implement an application monitoring system for temperature and humidity based on telemetry system, this application named is Telemetry Sensor. This application displays three main menus that are regular mode, request mode, and notification mode. This application also supported another features like messaging and voice call service. To design this application use the Java programming language. Then performed alpha testing with black box method.

Result of alpha testing on this application found that this Telemetry Sensor application all of functions and features work well, whereas the results from beta testing for aspects of visual communication have respondents with highest average that is equal to 4,13 and the aspects of software engineering with an average of 4,04, these two aspects are included in the good range. The results of beta testing that this application can help the user as a monitoring temperature and humidity tools as well as efficient because it is useful to allow a user to monitor temperature and humidity whenever and wherever user are.

Key word : Telemetry, Android, Telemetry Sensor