

## **ABSTRACT**

Tuberculosis or TB is a disease caused by TB germs (mycobacterium Tuberculosis) and is contagious. Declared TB patients must undergo a treatment process on a periodic basis in accordance scheduled. According to the survey results to the officer Klaten District Health Office and the 14 TB patients in the health center Wedi, obtained a kondsi 8 of 14 patients as respondents sometimes forget to their medication schedule. Besides forget to schedule treatment, 9 of 14 patients who were questioned admitted to sometimes forget to put medical card and ultimately did not bring any regular medication. This causes the patient does not know in writing the results of his medical records and the date of subsequent treatment. Medical records are implemented in health centers in Klaten area is still manual and need recapitulation reset when reporting patient data. So that it causes a lack of efficiency of work in the field of data summary. In addition, because the patient data is still written on paper, a serving officer memamparkan treatment sometimes long enough to search when many patients because the data piles.

To solve this problem, in this final project "RFID-Based Applications Integrated Medical Record website and SMS Gateway as TB Patient Reminder". Which one nurse or administrator perform patient data filling in the form on the website and RFID tags function as patient medical card which will be used for identity verification in order to form filling routine examination and after completion of treatment the patient will receive the SMS Reminder for further examination.

Based on the results of testing and implementation, showed that this application allows the admin and perawatdalam perform data entry and data summary with reference to the results of questionnaires performance in the can is 4.75 (both categories). For the patients also helped with the sms reminder, based on the results of questionnaires obtained 14 respondents expressed satisfaction helped.

**Keywords : RFID Tag , RFID Reader , Medical Record , Website and SMS Reminder**