ABSTRACT

Digital transformation has brought changes in various sectors, including the health sector. Based on the 2024 health digital transformation strategy blueprint issued by the Ministry of Health of the Republic of Indonesia, one of the problems faced is incomplete, inconsistent, and low data accuracy in health facilities. This also applies to the independent practice of midwives in the Mandau sub-district. Through the survey conducted, several problems were found related to patient visits. Recording of visits is still done manually in books, making it difficult for midwives to find data on past visits, especially to calculate the schedule for the next visit such as an immunization visit or other repeat visits. In addition, there are situations where patients come to the midwife's independent practice when the midwife is not present, so the patient has to wait, contact the midwife, or even need to come back later. This study aims to overcome these problems with the solution of designing a web-based application for management and reservation of patient visits in midwives' independent practice using the Software Development Life Cycle (SDLC) model Rapid Application Development (RAD) method. Initially the application did not fully meet the expected specifications and functionality. However, by implementing system testing in parallel during development, specifications and functionality can be adjusted to user expectations. Finally, through user acceptance testing, this application successfully fulfills 9 out of 10 acceptance criteria with a final score of 4.475 out of 5, equivalent to a percentage of 89.5%. This result shows that the application has been accepted and meets the user's needs. Thus, by implementing this application, midwives can optimize the management and reservation of patient visits in independent practice, increase efficiency, and improve the quality of health services. The application also makes it easier for patients to make visit reservations and helps avoid problems such as midwives who are not in place or other patient queues.

Keywords – ***Web, Midwife, Patient, Reservation, Visit***