

ABSTRACT

Pos Pelayanan Terpadu (Posyandu) are a public health program that has an important role in improving family welfare and quality of life in various regions. The current implementation of posyandu still carries out manual recording using paper and rewritten using Microsoft Excel which has the potential to cause several problems, including a long process of inputting data on child growth and development and the problem of errors in recording weight and height measurements for children and long queues due to the eating process. long time. This problem can make the child's parents make the wrong decision to have a health check-up, which has an impact on the child's poor nutrition which can lead to stunting and being overweight which can lead to obesity. This research aims to implement an information system for managing and recording website-based children's nutritional data supported by E-KMS features, queuing, monthly data recording and automatic nutritional calculations. With the digitalized system, it is hoped that it will make it easier for midwives, cadres and parents of toddlers in posyandu activities with a prototype method approach for system development. System completion modeling uses UML (Unified Modeling Language) which consists of designing business process models, use case diagrams, class diagrams, robustness diagrams, and database modeling. System testing is carried out with a Black Box Testing method approach to ensure system functionality meets the specified specification requirements and analyzes the System Usability Scale to obtain the user's usability level. It is hoped that this research will produce a practical system, as well as make it easier to collect data and monitor children's nutritional growth and development in the Japan village of Mojokerto.

Keywords: *Posyandu, Information system, Digitalization, UML (Unified Modeling Language), Black Box Testing.*