

Intisari

Bentuk pelayanan kesehatan balita di Posyandu yang paling banyak dilakukan adalah penimbangan berat badan dan imunisasi balita. Melalui dua kegiatan tersebut, orang tua balita dapat memantau status gizi dan jadwal imunisasi balita. Status gizi balita ditentukan berdasarkan hasil penimbangan berat badan balita di Posyandu. Data penimbangan berat badan balita didokumentasikan pada Kartu Menuju Sehat (KMS). KMS merupakan bagian dari buku saku kesehatan ibu dan anak yang memuat kurva pertumbuhan balita. Meski sudah cukup membantu, pemantauan status gizi dan jadwal imunisasi oleh orang tua balita tidak dapat dilakukan setiap waktu karena jadwal kegiatan Posyandu yang hanya dilakukan satu kali dalam setiap bulan. Penelitian ini bertujuan untuk mengembangkan sebuah aplikasi *mobile* e-Posyandu berbasis Android untuk orang tua balita agar dapat memantau status gizi serta jadwal imunisasi balita setiap waktu.

Penelitian ini dilakukan dengan menggunakan metode *Rapid Application Development* (RAD). Pengembangan aplikasi e-Posyandu menggunakan bahasa pemrograman Java dan layanan *webservice* menggunakan PHP dan MySQL. Data yang digunakan dalam pengembangan aplikasi e-Posyandu diambil dari MySQL database yang berisi data kesehatan balita menggunakan metode *get* PHP. Data tersebut kemudian dikonversi menjadi format JSON dan disimpan pada *sharedpreference* Android. Data dari *list sharedpreference* kemudian dimasukkan ke tabel SQLite sehingga aplikasi dapat dijalankan dalam kondisi *offline*.

Hasil implementasi aplikasi e-Posyandu berbasis Android adalah sebuah aplikasi dengan fitur layanan informasi kesehatan dan status gizi balita berdasarkan usia, notifikasi imunisasi, layanan informasi imunisasi balita, serta grafik berat badan balita berdasarkan data dari Posyandu. Pengujian terhadap hasil implementasi dilakukan oleh *user* dengan persentase hasil pengujian berupa kebergunaan fitur 81,4%, kemudahan penggunaan aplikasi 72%, dan tampilan aplikasi 68%. Hasil tersebut menunjukkan bahwa aplikasi dapat diterima *user* dengan baik.

Kata Kunci : Andorid, Posyandu, KMS

Abstract

The most practiced toddlers health care in Posyandu is the weighing and immunization of toddlers. Through these two activities, infants and toddlers' parents can monitor the nutritional status and immunization schedule of their toddlers. Nutritional status is determined based on the results of the weighing of the infants in Posyandu. Weight data is documented in a health card called Kartu Menuju Sehat (KMS). KMS is part of a maternal and child health pocket book that includes infant growth curve. Though it is quite helpful, monitoring of nutritional status and the immunization schedule by parents of toddlers cannot be done any time because the schedule Posyandu activities are only performed once a month. This research aims to develop an Android-based mobile application e-Posyandu for parents of toddlers in order to monitor nutritional status and immunization schedule of their toddlers every time.

The study was conducted by using Rapid Application Development (RAD). e-Posyandu application development used Java programming language and the web service was developed using PHP and MySQL. The Data that used in application development. The data that used in e-Posyandu development were get from MySQL database using PHP. The data are then converted into JSON format and stored on Android sharedpreference. Data from sharedpreference list will inserted into SQLite table so that the application can be run offline.

The results of the implementation of Android based application e-Posyandu is an application with features such as health information service and nutritional status of toddler by age, immunizations notification, immunization of infants information services, as well as weight charts toddler based on data from Posyandu. Testing of the results of implementation done by the user with the percentage of test results in the form of usability features 81.4%, ease of using 72%, and the application display 68%. The percentage showed that the application is acceptable for user.

Keywords: *Andorid, Posyandu, KMS*