

ABSTRAK

Latar Belakang: Tingginya prevalensi angka kematian balita dan angka kematian bayi membuat orang tua perlu memprioritaskan pemantauan kesehatan dan tumbuh kembang anaknya. Akan tetapi, orang tua memiliki hambatan dalam pemantauan tersebut, seperti penggunaan buku KIA yang kurang optimal karena berbasis kertas. Seiring dengan perkembangan teknologi yang kian meningkat, sehingga aplikasi *mobile* di bidang kesehatan sangat mungkin dikembangkan untuk memudahkan pemantauan tersebut. Berdasarkan hasil studi pendahuluan, sudah ada beberapa aplikasi pemantauan tumbuh kembang balita. Akan tetapi, aplikasi-aplikasi tersebut belum memiliki fitur konsultasi dan menggunakan bahasa asing. Selain itu, hasil wawancara juga menyatakan bahwa pemantauan tumbuh kembang balita penting dilakukan. Oleh karena itu, perlu adanya perancangan aplikasi *mobile* guna mempermudah orang tua memantau kesehatan dan tumbuh kembang balitanya.

Tujuan: Menghasilkan desain tampilan antarmuka aplikasi pemantauan kesehatan dan tumbuh kembang balita berbasis *smartphone* guna memudahkan orang tua memantau pertumbuhan dan perkembangan anak balitanya.

Metode: Tahapan perancangan menggunakan metode *waterfall*. Analisis kebutuhan dilakukan dengan metode pengumpulan data melalui studi pustaka, studi pendahuluan, dan wawancara. Perancangan dilakukan menggunakan Microsoft Visio 2013 untuk perancangan desain proses dan basis data, serta *Figma* untuk perancangan desain antarmuka aplikasi.

Hasil: Hasil perancangan ini adalah *use case diagram*, *activity diagram*, DAD level 0, DAD level 1, basis data (ERD), serta rancangan tampilan antarmuka yang terdiri dari 11 sub menu, yaitu register, login, data balita, laporan balita, pertumbuhan, perkembangan, stimulasi, imunisasi, nutrisi, artikel, konsultasi, dan keluar.

Kesimpulan: Desain tampilan antarmuka aplikasi pemantauan kesehatan dan tumbuh kembang balita sudah dilakukan sesuai tahap perancangan.

Kata Kunci: Tampilan Antarmuka, Tumbuh Kembang Balita

ABSTRACT

Background: *The high prevalence of under-five mortality and infant mortality makes parents need to prioritize monitoring the health and development of their children. However, parents have obstacles in this monitoring, such as the use of MCH books which are less than optimal because they are paper-based. Along with increasing technological developments, it is very possible to develop mobile applications in the health sector to facilitate such monitoring. Based on the results of the preliminary study, there are several applications for monitoring the growth and development of toddlers. However, these applications do not yet have a consultation feature and use a foreign language. In addition, the results of the interview also stated that monitoring the growth and development of toddlers is important. Therefore, it is necessary to design a mobile application to make it easier for parents to monitor the health and development of their toddlers.*

Objective: *To produce a smartphone-based interface design for monitoring health and growth and development of toddlers to make it easier for parents to monitor the growth and development of their toddlers.*

Method: *The design stage uses the waterfall method. Needs analysis is carried out using data collection methods through literature studies, preliminary studies, and interviews. The design was carried out using Microsoft Visio 2013 for the design of the process and database design, and Figma for the design of the application interface design.*

Results: *The results of this design are use case diagrams, activity diagrams, DAD level 0, DAD level 1, database (ERD), and interface design consisting of 11 sub menus, namely registers, logins, toddler data, toddler reports, growth, development, stimulation, immunization, nutrition, articles, consultation, and exit.*

Conclusion: *The interface design of the application for monitoring health and growth and development of toddlers has been carried out according to the design stage.*

Keywords: *User Interface, Growth and Development of Toddlers*