

ABSTRAK

Latar Belakang : Setiap tahun terjadi peningkatan kasus autisme. Penyebab autisme ini tidak dapat diketahui secara pasti. Usaha yang dapat dilakukan dalam menghadapi kasus autisme adalah meningkatkan perkembangan anak autisme secara optimal dengan penanganan yang tepat serta didukung oleh keluarga. Kerja sama antara fisioterapis dengan orang tua pasien baiknya terjalin untuk monitoring perkembangan fisioterapi dari catatan rekam medis pasien oleh fisioterapis sehingga pelayanan fisioterapi yang didapatkan akan lebih maksimal. Dalam hal ini, perekam medis sesuai kompetensinya berperan manajemen data dan informasi kesehatan dengan melakukan perancangan aplikasi monitoring fisioterapi anak autisme untuk membantu mengoptimalkan kualitas hidup anak autisme.

Tujuan : Merancang aplikasi monitoring perkembangan fisioterapi anak autisme berbasis *mobile* untuk klinik mandiri fisioterapi Kediri.

Metode : Perancangan dilakukan menggunakan metode *User Centered Design* (UCD) dimana tahapan dimulai dari menentukan konteks pengguna hingga evaluasi produk. Analisis kebutuhan calon pengguna dilakukan dengan cara studi literatur, menentukan calon pengguna, wawancara, observasi, dan pembuatan *pain point*. Evaluasi produk dilakukan oleh perancang menggunakan metode *System Usability Testing* (SUS).

Hasil : Perancangan ini menghasilkan rancangan *Unified Modelling Language* (UML) yang meliputi *use case diagram* dan *activity diagram*, *user flow*, *Entity Relationship Diagram* (ERD), *design interface*, serta menghasilkan aplikasi monitoring fisioterapi anak autisme (Mofism) berbasis *mobile* yang hasil pengujiannya masuk dalam kategori mudah diterima oleh pengguna (*acceptable*).

Kesimpulan : Hasil perancangan yang berupa aplikasi monitoring fisioterapi Anak autisme (Mofism) berbasis *mobile* telah disetujui dan mendapat penerimaan yang baik sesuai dengan kebutuhan pengguna.

Kata kunci : Perancangan, Sistem Informasi, Monitoring, Fisioterapi Anak Autisme, Klinik Fisioterapi Mandiri

ABSTRACT

Background : *The number of autism's cases is increasing every year. Meanwhile, the cause of autism is not certainly known. The effort made in dealing with autism cases is to improve the development of children with proper treatment and support from the family optimally. Collaboration between the physiotherapist and the patient's parents should be established in order to monitor the progress of physiotherapy through the patient's medical record. Thus, that the physiotherapy services received are maximised. In this case, according to their competence, medical recordists play a role in data management and health information by designing physiotherapy monitoring applications for children with autism to help optimise the quality of life of children with autism.*

Objective : *Designing a mobile-based physiotherapy development monitoring application for children with autism for independent physiotherapy clinics in Kediri.*

Methods : *The design is carried out according to the UCD (User Centered Design) method, which starts with the determination of the user context and ends with the product evaluation. The analysis of the needs of the potential users is carried out by means of literature studies, identification of potential users, interviews, observations and identification of pain points. Product evaluation is carried out by the designer using the System Usability Testing (SUS) method.*

Results : *This design produces a Unified Modelling Language (UML) design including use case and activity diagrams, user flow, entity relationship diagram (ERD), interface design, and produces a mobile-based physiotherapy monitoring application for children with autism (Mofism) whose test results fall into the category easily accepted by the user (acceptable).*

Conclusion : *The results of the design, in the form of a mobile-based physiotherapy monitoring application for children with autism (Mofism), have been approved and received good acceptance according to user needs.*

Keywords : *Design, Information System, Monitoring, Physiotherapy for Children with Autism, Independent Physiotherapy Clinic*