

# Pengembangan Aplikasi Mobile Perawatan Metode Kanguru untuk Bayi Berat Lahir Rendah = Kangaroo Mother Care Mobile Application Development for Low Birth Weight Babies

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## Abstrak

Perawatan Metode Kanguru (PMK) terhadap Bayi Berat Lahir Rendah (BBLR) di Indonesia belum diterapkan sesuai dengan yang dianjurkan oleh WHO. Hal ini disebabkan oleh kurangnya dukungan dari pihak rumah sakit dalam memberikan pengetahuan dan keterampilan untuk melakukan PMK. Dalam Tugas Akhir ini, dikembangkan aplikasi mobile bernama Hug-a-Baby untuk memberikan edukasi kepada Ibu dengan BBLR dalam melakukan PMK. Proses pengembangan aplikasi ini menerapkan konsep agile development. Untuk merancang fitur-fitur yang sesuai dengan kebutuhan ibu pasien BBLR, dilakukan analisis kebutuhan pengguna dengan metode User Centered Design. Evaluasi rancangan fitur aplikasi dilakukan dengan usability testing. Revisi dilakukan berdasarkan hasil usability testing. Setelah rancangan desain difinalisasi, pengembangan aplikasi dilakukan berdasarkan kebutuhan pengguna yang sudah diperoleh melalui pendekatan Cross-compiler Application Development dengan React Native Expo framework. Hasil pengembangan aplikasi diuji dengan Alpha Testing sebagai bagian dari User Acceptance Testing dengan menggunakan pendekatan pembuatan studi kasus Requirement Based. Hasil pengujian User Acceptance Testing menyatakan bahwa aplikasi yang telah dikembangkan sesuai dengan kebutuhan pengembangan produk dan siap digunakan oleh pengguna.

.....Kangaroo Mother Care (KMC) for Low Birth Weight Babies (LBW) in Indonesia has not been implemented as recommended by WHO. This is due to the lack of support from the hospital in providing knowledge and skills to carry out PMK. In this Final Project, an application called Hug-a-Baby is developed to educate mothers with Low Birth Weight Babies (LBW) in carrying out Kangaroo Mother Care (KMC). This application development process applies the concept of agile development. To design features that suit the needs of mothers with LBW patients, user needs are analyzed using the User Centered Design method. Evaluation of the application feature design is carried out by usability testing. Revisions were made based on the results of usability testing. After the design has been finalized, the application is developed based on user needs with Cross-compiler Application Development approach using React Native Expo framework. The application is tested by Alpha Testing as part of User Acceptance Testing using a Requirement Based case study approach. The results of the User Acceptance Testing test state that the applications that have been developed are in accordance with the product requirement and ready to use by users.