Design Thinking of DEPA 2.1 Application Development to Support Children Growth Monitoring

by Tri Siswati

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Tri Siswati[1*], Tjaronosari Tjaronosari[2], Nurhidayat Nurhidayat[3], Herni Endah Widyawati[4]

[1234]Poltekkes Kemenkes Yogyakarta, Yogyakarta, Indonesia

[1*]trisiswati14@gmail.com, [2]tjaronosari@yahoo.co.id, [3]nur.hidayat@poltekkesjogja.ac.id, [4]herni@poltekkesjogja.ac.id

Abstract

BACKGROUND: Due to pandemic Covid-19, Posyandu was disrupted affecting child growth monitoring.

AIM: This study aims to design of the DEPA application.

METHODS: This was research and development of children's anthropometric using android applications based on PMK no 2 year 2020, namely DEPA application. Design focuses on prototype, which means turning ideas into actual products, by inviting several stake holders and users in Focus group discussions. The step were designing materials and storyboards, compiling content, navigation, flow, determining the appropriate software program. Reseacrh was carri out on May-June 2021 in Yogyakarta. Focus Group Disccusion (FGD) was taken to collect the information of tailor the application.

RESULTS: The FGD was attended by stakeholders from the nutritionist/programmer in health office province and district level, midwivery, psychologists, organisation of pre school children, childhood teachers, Posyandu cadres, health promotion officers, Women Empowerment and wellbeing organisation (PKK) as many as 18 persons. There were information and recommendation about design application includes growth and child development. The storyboard show toddler menu interface such as identity and general information. While the growth children include weight and body height, nutritional status, trend, interpretation and reccomendation. On the child development have figure standar, assesment, interpretation, stimulation, and reccomendation. There were several stakeholder suggestion for improving the desaign, ie. general language, functional application to support standard one of pre-school accreditaion, support Posyandu program and friendly use for maternal.

CONCLUSION: The DEPA application load interface children identity, general information, child growth and development standart, interpretation and recommendation. The prototype of DEPA application was potential support to programmer necessary, pre-school children accreditation, Posyandu and self assesment children growth and development

Keywords: Smart Phone, Application, Anthropometry, Development, Toddler.

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