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DEVELOPING AN APPLICATION TO INCORPORATE ESSENTIAL HEALTHCARE INFORMATION AND CHILD HEALTH DEVELOPMENT RECORD (CHDR) INFORMATION TO PROMOTE COMPREHENSIVE CARE AND EARLY INTERVENTION IN CHILD HEALTH

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Background: Emergency care and education are now essential components of pediatric care, according to UNESCO. Advancements in technology and communication, coupled with the ease of accessing the World Wide Web through mobile devices, have presented both benefits and drawbacks. Although the information is easily accessible, the reliability and precision is now in doubt due to unreliable sources. Furthermore, there is a lack of attention from caregivers to maintain pertinent details in the Child Health Development Record (CHDR), which serves as the main repository for vital healthcare information and a child's developmental history.

Methodology: A comprehensive review of the literature made this research possible. The opinions of the stakeholders were gathered to determine the application's requirements. Following the requirements analysis, a use case was created. Using the use case as direction, hand-drawn, digital, and prototype user interface (UI) designs were created, in that order. A focused group discussion was conducted for the evaluation after the user interface design, and the results of the analysis of user feedback were used to make the necessary adjustments.

Deliverables: An interactive prototype and UI for a mobile application were created and presented with stakeholders for feedback. Twenty hospital employees participated in the focused group discussion and the integration of healthcare data was valued by 65%. The majority of participants 80% thought the privacy protections were satisfactory, and 75% agreed the program was straightforward to use. 85% thought the content was accurate and up-to-date, 70% agreed that the health information was reliable. The UI design was further modified as a result of participant suggestions to include videos, a language preference option, and more visual assistance.

Conclusion: In conclusion, the application represents a potentially useful tool that could enhance caregiver engagement and ensuring the accuracy of healthcare data that is made available to users.

Keywords: CHDR, Paediatric emergency, Healthcare application