

**ENSURING CYBER SECURITY IN MHEALTH
APPLICATIONS DURING A RAPID
DEPLOYMENT IN LOW RESOURCE
CONTEXTS: THE CASE OF A COVID-19
RESPONSIVE MHEALTH APP IN SRI LANKA**

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Abstract

Technology innovation becomes the key significant method for the human to cooperate and speak with others. Every innovation can have positive and negative outcomes for our lives. The utilization of phones has expanded extraordinarily as of late permitting customers to perform more tasks; it is one of the advances that influence individuals' lives in various viewpoints. In the healthcare field especially, there is an observable development of health-related applications offering devices. And administrations to help medical care interventions as indicated by the clients' condition. Cybersecurity plays an important role in the field of information technology. Securing information has become one of the biggest challenges in the present day. Whenever we think about cybersecurity the first thing that comes to our mind is cybercrimes. The development of Mobile opens a huge extension for aggressors to take touchy information or to perform different sorts of assaults on these gadgets. The outbreak of coronavirus disease has created a global health crisis that has had a deep impact on the way we perceive our world and our everyday lives. The purpose of this research is to analyze methods of overcoming cybersecurity-related challenges around m-health applications in instances requiring the rapid deployment of such applications in low resource contexts. Data was gathered from the developers who created mobile applications during the COVID-19 pandemic in Sri Lanka. Data analysis was performed using self-evaluation analysis. The author has manipulated evaluation with 3 domain experts and 3 technical experts. As the framework, the author has suggested some recommendations to improve mobile health applications in the future.

Keywords: Cybersecurity, healthcare, mHealth, Mobile Development, cyber-attacks low resource context, rapid development, Sri Lanka.