Mobile Application: A Smart Sanitization Monitor for Workplace

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ABSTRACT

Workplace is like our second home to our community where they will take note about the safety and hygiene. It can also be a major source of disease transmission, including Covid-19 epidemics globally. Due to COVID-19 concerns, workplace hygiene has been taken seriously, and in order to avoid the workplace from becoming a hotspot for disease transmission, all organizations must constantly sanitize and disinfect their workplaces. The difficulty is that it is easy to neglect the significance of routinely cleaning and disinfecting the environment. The goal of this project is to develop a mobile application called SaniTracker to record and save sanitizing activity data. This research study is implemented Software Development Life Cycle (SDLC) with waterfall model for this mobile application development and Quick Response (QR) code is imbedded as method. Accordingly, mobile user experience (UX) key design principles are implemented during the development process including finger friendly tap targets, legible text content, visible interface element and self-evident navigation. Functionality testing and user acceptance testing is the evaluation applied in this research study by the workers. A significant finding from this research is that users are familiar with the QR code feature for recording sanitization activities, and many respondents stated that the SaniTracker mobile application can make this process easier for them because they have used it before. Ultimately, this project is beneficial and useful for all users since it can record sanitization activity data as proof that sanitization action has been taken and protect all firms from government penalties.

Keywords: Workplace area, Sanitization, Hygiene, Disinfect, QR code, Mobile application