

Nurse assist Station with Mobile Task App

Abstract

In Hospital Pulau Pinang, the health system delivery for patient care and also patient records are in the form of manual writing on papers as well as record books. This is shown to cause slowdown in patient discharge from wards which leading to delay in bed turnover. This delay can amount to 24 to 72 hours before the patient can actually be discharged from the ward rendering beds not emptied for the next potential patient. This system is developed to provide a mean to hasten patient discharge as well as in the same time provide a mobile platform for doctors to keep records on their daily task list.

This project consists of 2 components, a nurse assist station coupled with a mobile task application. The nursing station will be able to help in clinic appointment setting as well as hasten patient discharge from the ward leading to improve patient turnover time. The mobile platform will help doctors to keep track of task that is needed to be done for each patient. This system is setup to complement the current hospital system in Hospital Pulau Pinang and to further enhance its efficiency but not to replace it entirely. This system will be able to integrate into existing hospitals without IT such as the districts or secondary hospitals to further enhance it functionality in terms of patient care.

The objective of the nursing assist station is to help in shortening the time it takes to set clinic appointments when patient discharges from the wards and also concomitantly shorten times it take to help in patient turnovers.

The objective of the mobile task app is to help doctors keep track of task list for patients in the wards. This app can also be further expended to nursing and also procedures base applications.

The project platform will be built base on Java application for both the nursing station and also the mobile platform. It will be centralized within the hospital intranet for security reasons where network administrators are able to provide server and security overlook as well as prevent outside intrusion from the internet. Each ward staff and doctors in charge of the ward will be allocated specific login details and security level to the system to enable their access to the patient's data specific to the ward as well as admit new patients. Specific tablets preloaded with the mobile application will be provided to the doctors. No patient data will be able to be download onto the tablet for confidentiality as well as it cache wipe on leading the ward network.

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