National Institute of Technology, Hamirpur (H.P.)

Innovative Research Incubation Club

Innovative Research Project Proposal Format

Research Project Title:
Paperless Working of Hospitals through QR Codes

Project Description

> In a hospital, an imperative part of carrying out any medical assessment is handing on the information over from patient to the doctor and the further prescriptions. For example, when a patient arrives, he receives an empty prescription slip at the reception in which he fills out his details; and later after examination, the doctor states the prescriptions, medicines and other details on the same slip, which is to be referred to the drugs store. In a customary hospital, the information is passed on in ink and on paper. We propose to do the same through QR Codes. This would make the working of hospitals paperless, hence, avoiding stacks of paper used (thus, being environment-friendly and promoting digital idea of the world) and giving way to a more sorted record-maintaining process (thus, helping the patient to keep a set history of his illnesses and the cures whatsoever). In the proposed system, a desktop application capable of encrypting the patient's information in the form of QR Codes will be installed at the reception. The information wrapped up in a QR Code will be handed over to the patient printed in a square band. When it will be their turn, the patient will carry the band over to the doctor. An Android application capable of decrypting the QR Code on the band will be installed in a smartphone available with the doctor. The decrypted information would be parsed and sent over to the desktop application at the doctor's desk, on which they would be able to add necessary prescriptions, which would further be encrypted into another QR-coded band and further. Thus, the patient will be able to keep a recorded history through those bands in an environment friendly and efficient manner.

Project Completion Time (Tick or Bold one option)
- Short term (upto one semester)
- Mid term (upto one year)
- Long term (more than one year)

Student Skills Required, Pre-requisites (If any):
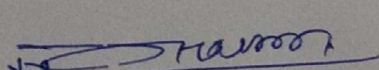Android Application Development, Web Application Development
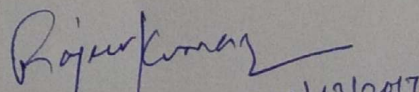**Number of Student Required (UG/PG) for the Project:** 4-5
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