Creation of a techno-medical platform for emergency consultation of investigative and therapeutic orthopedics in the form of an android application

Priya Shukla

Shri Ramswaroop Memorial Group of Professional Colleges, India

Orthopedic disorders are diverse and many a times we get co-existing pathologies existing in a same patient at the same time. Therapeutic modalities need to be planned such that we can address all the pathologies at the same time. This needs a lot of varying investigations and biomarker assessments to be done in a single sitting. In emergency situation, when the life and limb salvage procedures are being done on the patient, the treating team might miss to recall some of the investigative procedures. Our aim was to make an android application which assists the emergency orthopedic team for complete management of the patient. We created an android application on the basis of iterative water fall model. The main objective of iterative development is to build the system incrementally, starting from the partial system features and gradually adding more features until the entire system is completed. The model passed through various phases like system and software requirements, architectural and detailed design, coding, testing, etc. Initially the data flow diagram was made which passed through level-1 assessment followed by entity relationship diagram. We delivered a working android application which will help orthopedic surgeons and the attendants of patients to understand the type and seriousness of ailment they are suffering from. The treating team will not miss any investigation or therapeutic need after making diagnosis of the patient.

Biography

Priya Shukla is currently pursuing her Bachelor of Technology degree in Dr. A.P.J. Abdul Kalam Technical University, India with aspirations to serve patients utilizing her technical knowledge.

prisac0712@gmail.com