ABSTRACT

IMPROVEMENT IN RADIOLOGY INSTALLATION SERVICES USING *QR CODE* AS REPLACEMENT FOR FILM

Dianita Fatmasari, Kusuma Adhi Widya A, Genza Gerendra, Dzikrul Karim

The more widespread of IT development, brings human entered a more modern and sophisticated era. One of the results of IT development is the discovery of *CR (Computed Radiography)* and *DR (Digital Radiography)* modality as a tool of managing digital photos in Radiology. Modality *CR* or DR gives benefits and great influence to manage the images and shorten the time of examination by using a digital system. Developments in radiology sector is rapidly raises many new ideas for researchers to utilize and develop the modalities of *CR* or DR. Especially *CLOUD*, *cloud* is information technology services that can be used or accessed by users through the Internet. *Cloud* is a modern storage media and gives comfort for users. With the *CLOUD* as a modern storage, researchers then tried a new innovation to improve services in Radiology using *QR CODE* as a replacement for a movie. *QR CODE* in the form of two-dimensional barcodes to convey information quickly and get a quick response.

CLOUD and *QR CODE* is part of technology development, in this task the writer tries to explain the process of making *QR CODE* as a replacement for a movie. The advantages of *QR CODE* are located on patient comfort, cheaper, and simpler. on other side it makes easy to read for radiologist doctor, because *QR CODE* can be accessed anytime and anywhere. Results of *QR CODE* will be placed on the patient's readings so the patients do not need to carry the film at the time of control to the doctor. How to read *QR CODE* using *QR CODE* READER application, the application can be downloaded at Google Play.

keywords: *CR*, DR, *CLOUD*, *QR CODE*