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Medi QR Android Application using QR Code

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ABSTRACT: NFC is short range communication technology which provides two-way interaction between devices. In a Health care sector, NFC is not only used to reduce the health care costs but also provide automatic and streamlining patient identification system. NFC technology can be available in any form such as NFC tags which stores short information in it as a unique identification system. The objective of the project is to make a system which will provide the details of any user at any time. The NFC tag will be implanted in the card called as health card. When the card scanned with our mobile application will provide the data about the user according to the user scanning it. Thus, the data security and confidentiality will be provided to user's data. NFC provides high level of security to data. The data will be authenticated and validated by the admin.

KEYWORDS: NFC chip, smart phone, NFC reader, Medical record, Criminal Record.

I. INTRODUCTION

Nowadays, life is too fast. Each and every one of us is having some documents related that includes aadhar card, PAN card, ration card, driving license, medical reports and many more. It is very difficult to carry all these documents at everyplace which causes a lot of inconvenience. So, in this project, having proposed a system with NFC chip mounted in a card (health card) which will uniquely identify that person. There would be a centralized system, where all the documents are scanned and are uploaded on to the cloud (firebase database) after verification by the respected authority. Now, when the reader scans the chip, it will give unique value which will give the documents of that particular person in user's android application.

II. RELATED WORK

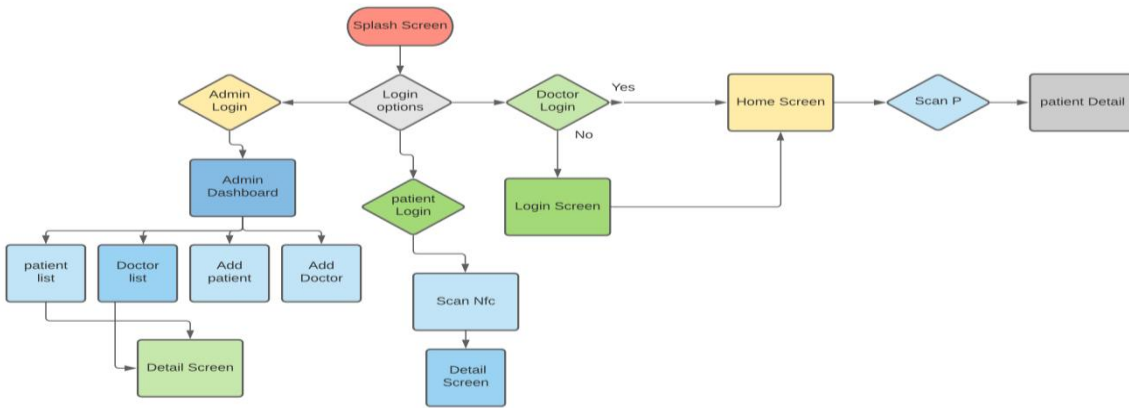
Patient Monitoring by NFC

The health monitoring sensors are installed near the mattress on patient bed. By utilizing this application on Android smartphone and selecting the NFC mode from the setting menu, all information from sensors can be collected easily from the bedside by patients themselves or doctors. Limitations of this paper are in this paper only show the information of bedside patient with the help of NFC.

Defining the Functional Requirements for the NFC-

Based Medication Administration and Clinical Communication System This paper, they used theoretical and practical sources to form a clear picture of the BMA procedure. Identified the essential methods used in nursing practice to ensure safe BMA, and their limitation. Accordingly, they drew an initial technical concept of the system functions that will help design the system. This paper only uses the medication administration communication. This system not provides security to user.

III. METHODOLOGY



When we open the application then we see a splash screen it is visible for 5 seconds. Then it opens main panel, it has three login options 1.Admin login 2.Doctor login 3.Patient login. When admin logs in admin reach on admin dashboard. In that he can add doctors, patients and he can see the list of patients and doctor. Next is doctors login, when doctor login in doctor then doctor reach to home screen of doctor in that doctor can add a new patient, see the details of patient by scanning their tags. Last is patient Login in that patients can see their details by scanning their tag or QR

IV. EXPERIMENTAL RESULTS

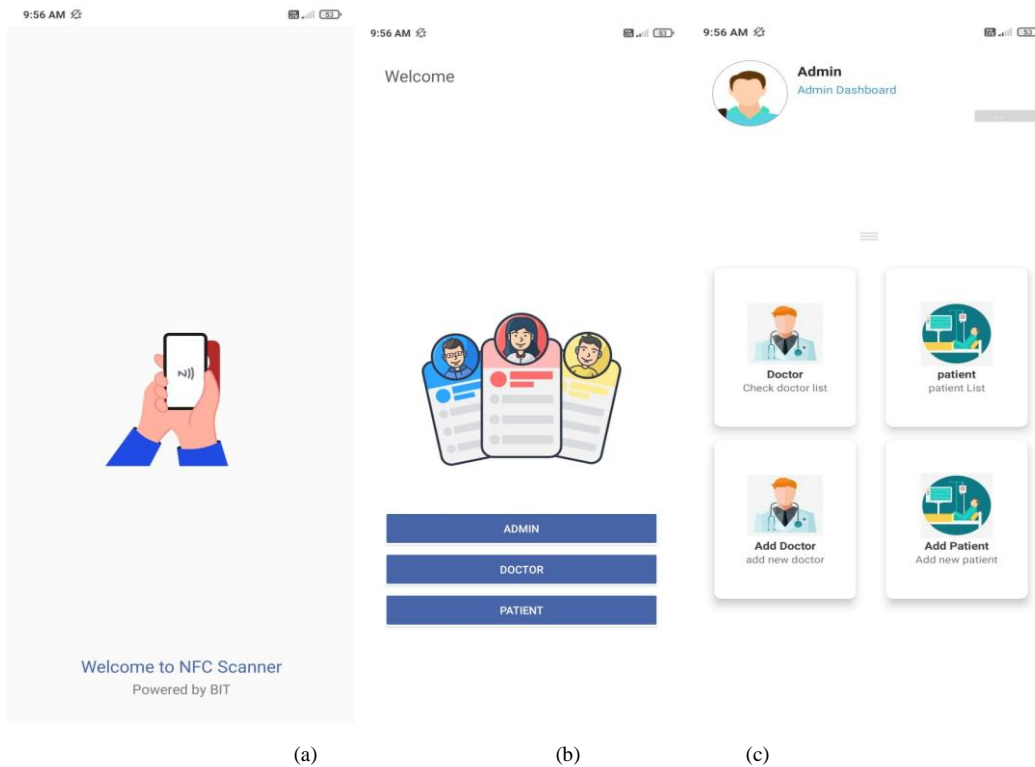
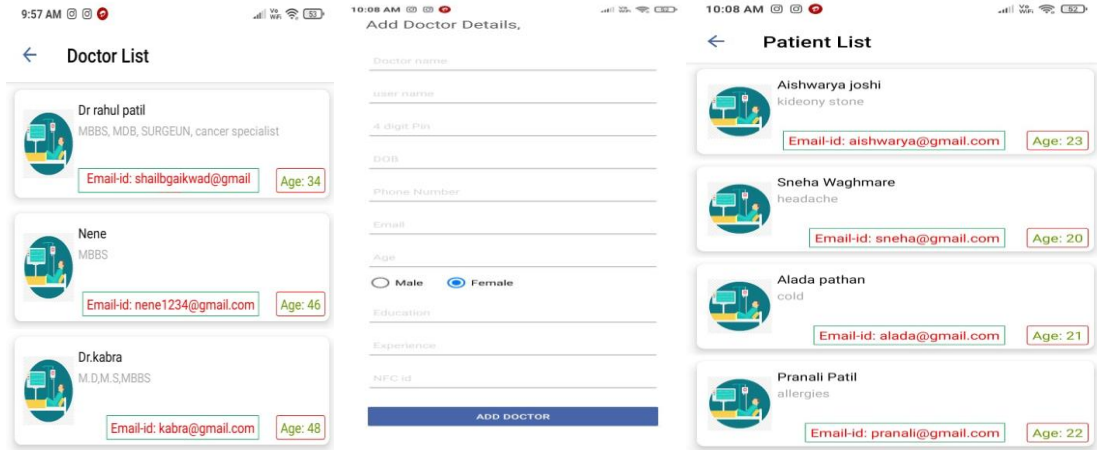
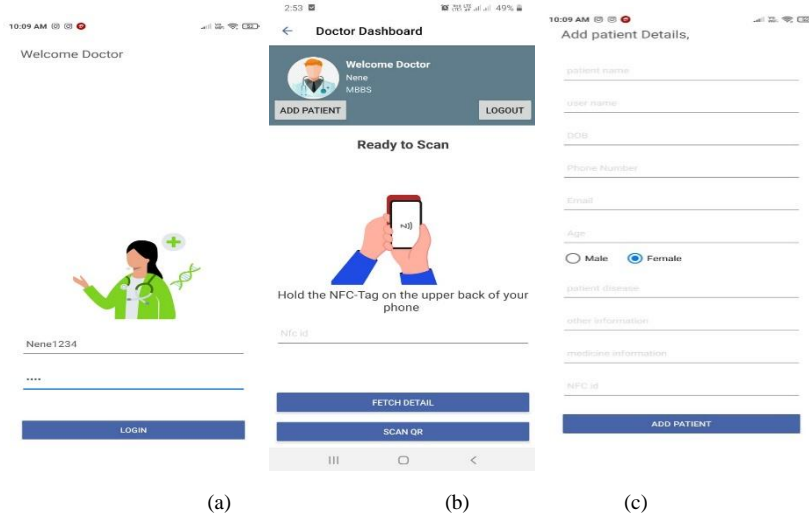


Fig. 1.MediQR (a) Splash Screen (b) Main three panel (c) Admin Dashboard

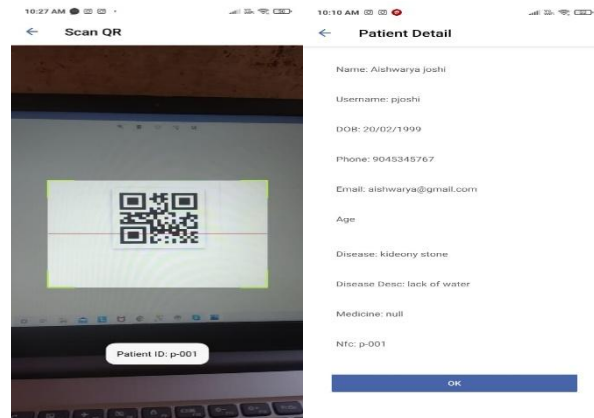


(a)(b) (c)

Fig. 2MediQR (a) Doctor List (b) Add Doctor (c) Patient List (d) Image mask



(a) (b) (c)



(d) (e)

Fig. 3MediQR (a) Doctor Login (doctor Dashboard (c) Add Patient (d) Scan QR Code (e) Patient Details



VI. CONCLUSION

A paperless system which will make the Identification of a person more easy and authentic. Use of NFC tags increase authenticity of data as they cannot be overwrite

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