PATIENT'S UNIQUE IDENTIFICATION

PROJECT SYNOPSIS

OF MINI PROJECT

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(2020 – 2021)

Title of the project

Patient's Unique Identification

Abstract

We all can't disagree with the fact that there are so many people in our society who are patients of such kind of diseases which need a long duration of treatment. And changing multiple doctors in this long duration of treatment is very often. In some case, it may due to unsatisfactory treatment by his/her doctor, while in some cases patients are supposed to change their city because of other reasons, but in both cases, it becomes very hard to keep its medical history (like previous prescriptions, reports, test results, etc.) with him/her.

Objective

Unique Patient Identifier (*UPI*) will be an individual identification number of every patient issued by this system. The objective of this project is to collect Patient's basic details (like Name, DoB, Contact number, Blood Group, Address, etc.) as well as giving a facility to upload heap of reports and prescriptions, store them in a centralized database, and issue a 12-digit *Unique Patient Identifier* (*UPI*) to every patient.

Feasibility Study

Existing System :   Currently, the record management by patient is done through hardcopy of all the reports but at the same time, these reports are required to be maintained and updated as per the requirement which becomes very cumbersome and sometime very disastrous, if he/she lost any of these record. There is no system in our country that provides a facility of accessing someone's medical history in case of any accident or emergency. We totally depend on patient or his/her family during treatment which results problematic delays.
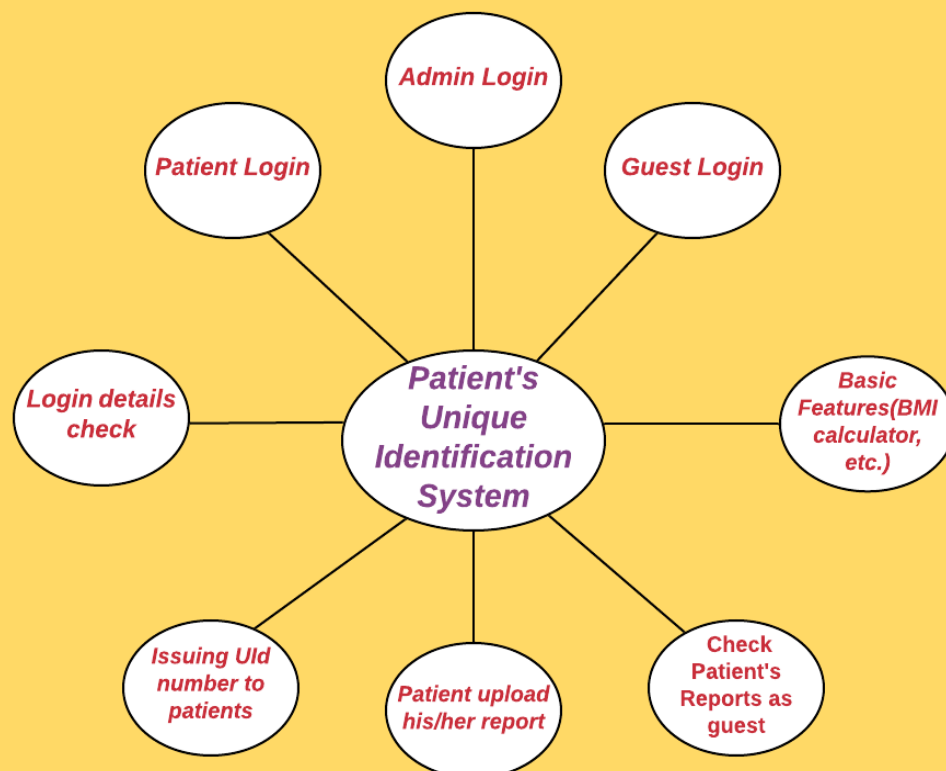
Proposed System : Our system will provide a unique identifier to every patient that can be used to view his/her previous medical history. Our system will keep track of all the records, with proper updation and modification facilities as and when required. Patient will be able to login into his/her own database using same username and password set during signup process, also every patient can access, update and modify its own records through our system.

Data Flow Diagram

Level - 0
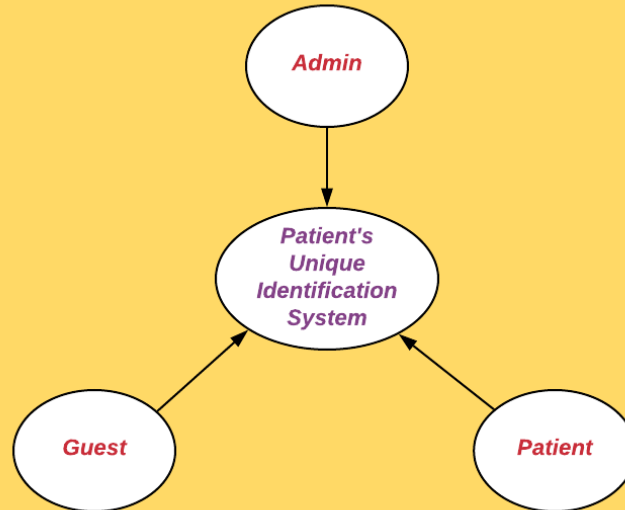
Level - 1

Functionality

Our system will provide the patient and the admin with immense services, in particular :

i)   Login and Signup facility to the Admin and Patients (for doctor as well in future).
ii) Patient will get a unique number, i.e., Unique Patient Identification Number.
iii) Patient can upload and view.
iv) There will be a Guest Login as well because it might be possible that in any emergency situation, paramedical staff (not registered in our database) needs to examine/operate a patient who is registered in our database.
v)   During guest login, there will be limited functionalities.
vi) Features available at guest login will be like patient's name, his/her reports, his/her prescriptions and emergency Contact Number and relation of Patient with Emergency Contact.

Future Scope

The development of this system surely prompts many areas of further lengthening. This system has wide scope to implement features like:

i)   In future scope of project, doctor will be needed to verify his/her identity by uploading photo of license for completing signup process.
ii) Admin will have to verify doctor's identity through doctor's license.
iii) In future scope of project, doctor will be able to upload reports and prescriptions of patients only if patient will approve him/her   as   his/her doctor.
iv) Doctors can also view previous reports and prescriptions (either uploaded by patient or previous doctors).
v)   Doctor will not be having any authority to remove/delete any prescription or report from patient's panel.
vi) Patient can disconnect the connection between him/her and his/her doctor, anytime.

GitHub Repository

https://github.com/Mini-Project-GLAU-2020-21/Patient-s_Unique_Identification

Technology

Hardware Requirements :
- Computer System with minimum 8GB of RAM

Software Requirements :
- Windows/Linux OS
- Android Studio
- Visual Code Studio
- Robo 3T
- Postman
- Adobe XD

Programming language :
- Java Programming
- JavaScript
- MERN Stack

Conclusion

The project proposes a general approach to facilitate the evaluation and monitoring of patient reports and to keep them safe. This suggests that a comprehensive approach needs to be used to monitor, return and review such interventions. Hoping that this will lessen anxiety of patients in maintaining record of previous reports and prescriptions, and the unique patient identifier will serve as medium to address patient's details, so that it can be accessed and interacted with efficiently.