DEPARTMENT OF COMPUTER SCIENCE
ALIGARH MUSLIM UNIVERSITY (AMU)

Master in Computer Science and Application

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Project Synopsis

On

DMW APPLICATION (TELEMEDICINE ANDROID MODULE)

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Submitted to:

DR.ARMAN RASOOL FARIDI   Submitted by:

GHULAM RASOOL

19MCA041

GH9425

DMW APPLICATION (TELEMEDICINE ANDROID MODULE)

Introduction

DMW (Distinguished Medical World) is a portal in which we are trying to bring the medical fraternity on a single platform as much as possible. It will have both web app and mobile app. In this application we are also incorporating the telemedicine module which is an indispensible part of today's medical world. Telemedicine (Android Module) is a MOBILE BASED module of DMW App to provide clinical health care at a distance. The vision of DMW is to improve health of everyone, everywhere by accelerating the development and adaptation of appropriate, accessible, affordable, scalable and sustainable person-centric digital health solutions to prevent, detect and respond to epidemics and pandemics, developing infrastructure and applications that enable countries to use health data to promote health and well being and to achieve the health-related Sustainable development goals. It helps eliminate distance barriers and can improve access to medical services that would often not be consistently available in distant rural communities. By this android application we can easily delivered of healthcare services, where distance is a critical factor, by all healthcare professionals using information and communication technologies for the exchange of valid information for diagnosis, treatment and prevention of disease. In this portal patient has been to be registered with valid login id and password, after login user can search doctor, take appointment, send their report to doctor .Doctor also has been registered and make a profile. Doctor view the patient appointment request, reports and interact with the patient by call, video conferences, email and messaging.

Problem Description

As we have seen recently the COVID-19 pandemic affects the processes of routine care for patients. People with chronic conditions, however, are not only affected by the COVID-19 pandemic in a direct manner, but also in an indirect manner. The COVID-19 pandemic disrupts entire societies, including the routine health care systems. Patients can't go outside by their home so they did not get diagnosis and lose their life. who lives in a small rural areas needs to visit a specific doctor (heart's specialist, surgeon, etc); they have to go smart city or any country. Thus they have to spend money in the plane/boat tickets, and this cost a lot of money.
But not only is the money a problem. When a patient has a job and has to travel to another city or country, they need to ask for some free days in their jobs, and that is not always possible. The same happens for those people with children, and they are forced to let them with their families. Thus, these are only some of the large list of inconvenient that this kind of illness can cause. Those patients that has a lot of trouble in travelling, Instead of that, we can send the information there through this application. So this mobile application helps to patient and doctor in very efficient way.

Objective and scope

The primary goal of the project Telemedicine (Android module) should be to enhance overall patient outcomes. Whether that is driven by improved accessibility, consistent follow-up care, or simply a relaxed and focused conversation, better patient outcomes can be achieved in several ways through this project, including improved access to care.

Objective of this application:

- Improving patient outcomes
- Increasing patient engagement and satisfaction
- Improving patient convenience
- Providing remote and rural patients with access to care
- Improving leverage of limited physician resources
- Reducing cost of care delivery
- Reducing hospital readmissions
- Improving specialist efficiency
- Providing access to new specialties
- Providing 24/7 access to specialists

System Module

Admin Module

- Manage user(Patient) view/delete
- Manage user (Doctor) view/delete

User Module (Patient)

- Search Doctor
- Take appointment
- Send report

User module (Doctor)

- View patient detail
- See all appointment request sent by patient

HARDWARE & SOFTWARE REQUIREMENT

- Android Mobile

- Processor   : 2.2 Ghz or above
- Hard Disc   : 1GB or above
- RAM   :2 GB
- IDE   Android operating System

- Front End – React Native

- Back End – Node Js Editor