

COVID-19 DataDoc

PROBLEM DEFINITION:

DataDoc offers the comprehensive virtual care solution capable of serving organizations and people anywhere. It seamlessly connects general medical, mental health, and complex care to deliver convenience, outcomes, and value. At present different parts of the country are seeing different levels of COVID-19 activity, so our focus in this project is to provide virtual care to the people with COVID-19 symptoms and provide them with proper medical care.

In this project, we propose to develop an application called COVID-19 DataDoc which helps to virtually connect the patient to the Medicare provider for COVID-19 related initial screening. The patient can provide his/her required vitals using the DataDoc eco-system and this information is available to the Doctors within seconds. Further the doctor can share his/her findings with the Hospital and the patients directly with appropriate next steps such as medication, in-person screening, blood test etc. In case of emergency, the hospitals can share the patient's data to the emergency task force using the proposed system and can save lives.

Our application span the spectrum of healthcare needs, from simple to complex.

KEY FUNCTIONALITIES:

1. Citizens can choose cluster/network as per their choice or as per their locality and accordingly can choose the hospital, doctors will be of their choice too.
2. Citizens adds his/her vital signs on daily basis(Body temperature, cough, difficulty breathing, flu, cold symptoms if any other) and request the doctor and get it checked from the doctor
3. Doctors will add patient to a suspected list, if found any symptoms related to COVID-19 symptoms from patient Vital Sign.
4. Doctors will notify the Hospital and all the suspected patient will add to the hospital suspected list.
5. Hospital Admin keeps the record of Normal patient list and Suspected patient list, as per the confirmation from the Doctors for patients with COVID-19 symptoms.
6. Hospital Admin will further request the Emergency Services admin to reach out to the Suspected Patient place, to bring them to the hospital.
7. Emergency Services admin will assign the task to an Ambulance and validate the request by reaching out to the patients place and dropping them to the notified hospital.

ENTITIES:

1. Hospital Enterprise
2. Emergency Service Enterprise
3. Citizens Enterprise
4. Administrative Organization
5. Doctor Organization
6. Emergency Service Organization
7. Citizen Organization
8. Ambulance Organization
9. System Admin
10. Emergency Service Admin
11. Administrative Admin
12. Hospital
13. Doctor
14. Citizen
15. Vital Sign

ARCHITECTURE

HELPING HANDS TO TEST FOR COVID-19

