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# eCare- Doctor Appointment Portal

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**Abstract -** As we all are aware about the current situation of pandemic and now a days the cases are increasing rapidly due to the second Covid wave also become dangerous than the before. We all have to take precautions and proper treatment or check-up to deal with this situation. The main aim of this project is to improve the medical sector using the technology. In this time of pandemic where people have fear to go physically and be in a long queue just to book an appointment regarding their regular consult, covid related queries or scheduling covid test. So due to all these things, I have developed an online appointment portal named as e-Care Doctor Appointment portal where user can book their appointment with ease. There are many more feature that are available in the portal like user are able to book the appointment in general as well as in covid section separately ,able to track the active cases, availability of vaccines etc . It's user friendly so that they are not going to face any problem.

Key Words: Appointment zone, Covid Zone, General zone, Covid Live Update(Infected, Recovered, Death, Vaccination), Government Scheme's, Google Map Module.

#### 1. INTRODUCTION

Health plays a vital role in our life. If we are physically strong than only our mental health also going to be strong and then only we are able to do anything in life. As we see that whole world is facing a very serious problem now a day's that's Covid19 which is very highly infectious disease, which causes even death and fear of this virus even going to be worst and worst. Now question is from where this fear comes out actually mostly people are not totally aware about the dangerous virus and if they see little bit symptoms than they get scared to go for a even check-up, there is a fear in their mind that if they are going to hospital than they are going to infected by other people who already waiting in queue of doctor appointment. As in this covid19 situation we have to maintain social distancing to avoid to get infected.

On another hand let's talk about those who are ready to wait in long queue, may be they are able to get appointment after waiting a lot but in between while they are waiting for hours they may get sick by any other things like suffocation, warm environment or many more things are there or it's also possible that after waiting in long queue even they don't get any appointment than there whole day going to waste, where they are not able to even eat something or taking any drink as in the pandemic situation we have to avoid all the

street foods or food from outside than also they are going to sick

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By observing all these things what I feel that I have to do something regarding awareness regarding covid19 or pandemic is very important thing, one more thing I observe is if someone is get infected and some other people know about it they treat or behave very weird towards those people instead of supporting, or motivating them they make them feel low. So I Just develop an online appointment portal known as eCare-Doctor Appointment Portal where there is a separate booking section for covid affected people or those people want specially appointment regarding covid situation so they feel free to take appointment and talk to doctor directly without any problem and fear.

Those people want to book their appointment for general problem than they have their separate zone name as General Zone. Traditionally what happens that people schedule their appointment on phone also but now a days as situation of whole world is not that much good so it's difficult to handle calls because in few days we see that counting of covid effected comes in lakh, where general zone patients are not even counted.

## 1.1 Components of eCare portal

## 1) Appointment Module-

It consist database, path URLs and business logic for appointment form and validating then sending confirmation emails.

This module having two sections:

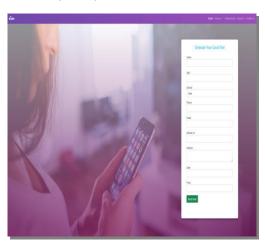
## i) Covid Test Module:

It consists database, path urls and business logic for covid test appointment inputs. Where user have to input his/her name, age, gender, phone number, email, date, time, doctor with their department that already provided they just have to choose the right choice, provide short description of disease. When they did with this all than user get confirmation of appointment with date, time and doctor name.



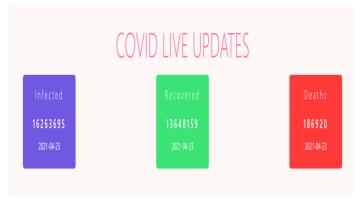
## ii) General Appointment Module:

It consists database, path urls and business logic for general test appointment inputs. Like covid section they have to provide the general details and description and they get an appointment very easily.



#### 2) Covid Stats Module:

It consists of API functions and rendering covid data to frontend development. In this people are able to see covid live updates which included how many people are get infected, recovered, deaths and vaccination update.



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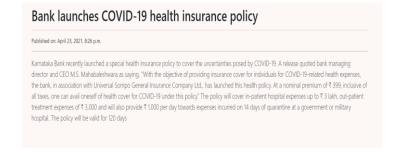
#### 3) Government policies Module:

It consists of database, path, URLs and business logic for government policies, title, description and images. On the front home page users are able to know all about government policies through sliders.

### 3(i) Government Policies Article:

There is a separate article about the policies.

If user want to know the government policies in more details than visit the article section.

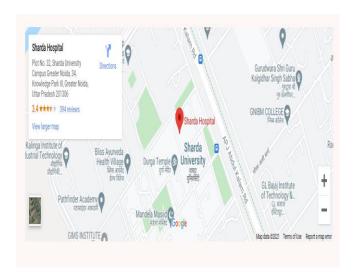


## 4) Tutorials Guide:

The tutorial Guide portal available in two languages i.e. English, Hindi so that if users are unable to understand the process of booking appointment on portal than they see those tutorial which also available in video form if user find any difficulties than go through those videos and book there appropriate appointment.

### 5) Location Module:

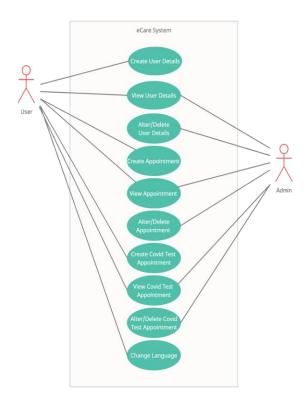
It consists of Google API functions that render current location of hospital to the footer section.



#### **METHEDOLOGY-**

In this online portal or portal name eCare, the methodology used is use case methodology which basically provide a organized view for our system. Here it does clarify the different- different ways of user and admin with eCare.

Here user are going to make interaction like they create user details, able to view those details, create appointment, view appointment, create covid test appointment, view covid test appointment and an admin role is view user details ,Alter/delete user details ,view appointment , alter/delete appointment ,view covid test appointment, alter/ delete covid test appointment.



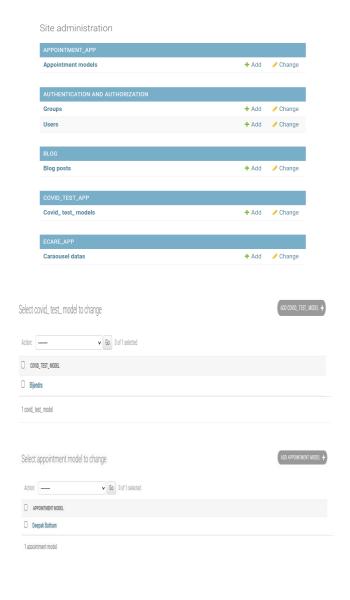
#### **FUTURE WORK:**

The goal of my project is to add new updates things especially as we all face the pandemic situation. So in the future in eCare portal I am going to add multilingual modules which consists API functions that transpil English language to regional languages. Also going to ass two factor authentications for the security purposes as well as a dashboard for users where they are able to track all the history, report, current status etc.

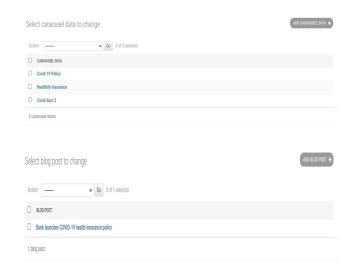
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#### **RESULT:**

This is the result of appointment databases and other database too.







#### **CONCLUSION:**

Hence eCare- Doctor Appointment Portal is developed which having lots of benefits and capabilities and make an appointment very easy, also spread awareness as well as the sufficient details are traceable.

This system can be mounted in the medical field like my college also have a hospital or any other hospitals are able to use it. With the help of this both hospitals as well as users are going to save their life as well as their time.

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According to a research by [2] **Jamaiah in 2003** says that Patients' waiting time has been defined as "the length of time from when the patient entered the outpatient clinic to the time the patient actually received his or her prescription".

While another research by [3] **Suriani in 2003** says, It is defined as the total time from registration until consultation with a doctor. There were two waiting times, the first is time taken to see a physician and the second is time to obtain medicine.

An attempt by [4]Gamlin in 2003 was made to calculate the waiting time between patient and doctor using the mathematical queuing models to minimize the waiting time. [5]It shows that traditionally the appointment system has considered that the doctor time is more important than patient time. So an appointment system was designed to minimize the doctor idle time but the current designing of an

appointment system is based on decisive factors with respect to both the patient and doctor.

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