Pandemic Recorder

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ABSTRACT

The unprecedented outbreak of the 2019 novel coronavirus, termed as COVID-19 by the World Health Organization (WHO), has placed numerous governments around the world in a precarious position. The impact of the COVID-19 outbreak, earlier witnessed by the citizens of China alone, has now become a matter of grave concern for virtually every country in the world. The scarcity of resources to endure the COVID-19 outbreak combined with the fear of overburdened healthcare systems has forced a majority of these countries into a state of partial or complete lockdown. The number of laboratory-confirmed coronavirus cases has been increasing at an alarming rate throughout the world, with reportedly more than 1 crore confirmed cases as of 12th January 2021. Adding to these woes, numerous false reports, misinformation, and unsolicited fears in regards to coronavirus, are being circulated regularly since the outbreak of the COVID19. Google Firebase for collection of non-COVID patient info is another addition to our project that can be used in every hospital. Same goes for 'Disease Tracker' which will track other common diseases in India, which help in both ways for doctors.

Keywords : COVID19, Google Firebase, World Health Organization

I. INTRODUCTION

The COVID-19, an acronym for "Coronavirus Disease2019", is a respiratory illness caused by the severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2), a contagious virus belonging to a family of single-stranded, positive-sense RNA viruses known as coronaviridae. Much like the influenza virus, SARS-CoV-2 attacks the respiratory system and causes ailments such as cough, fever, fatigue, and breathlessness. While the exact source of the virus is unknown, scientists have mapped the genome sequence of the SARS-CoV-2 and determined it to be a member of the β-CoV genera of the coronavirus family, which typically derives its gene sources from bats and rodents. The COVID-19 was first reported to affect human life in Wuhan City, in the Hubei province of China in December 2019. Since then, the COVID-19 has spread like wildfire throughout the rest of the world, marking its presence in 213 countries and independent territories. The total cases stand till now are 10,479,913.

Software Overview

Visual Studio Code –
Version: 1.53.0 (user setup)
Commit:
8490d3dde47c57ba65ec40dd192d014fd2113496
Date: 2021-02-03T20:36:38.611Z
Electron: 11.2.1
Chrome: 87.0.4280.141
Node.js: 12.18.3
V8: 8.7.220.31-electron.0
OS: Windows_NT x64 10.0.19042
Windows: Windows 10 v2004 (20H2)

Google Chrome v88.0.4324.150
Google Chrome is made possible by the Chromium open-source project and other open-source software.

II. Literature Survey

Study in Epidemic Prevention and Control Strategy of COVID-19 Based on Personnel Flow Prediction:
In this paper, a COVID-19 risk prevention and control decision-making model is proposed according to the compatible characteristics of epidemic risk prediction. Firstly, the uncertainly attribute od epidemic risk was analysed through the collection of information on the personnel flow, and the problem that the risk of the epidemic could not be accurately predicted due to the uncertainty of the personnel flow was solved, and emergency prevention and control countermeasures were proposed for the possible COVID-19. Secondly, a model of epidemic risk prevention and control analysis is established by using correlation function method, which provides a new research method for risk prevention and control of public health security.

PRODUCT PERSPECTIVE

The major functionalities of project are – Tracking of COVID-19 Patients along with Patient Form which connected to 'Google Firebase' and it stores on to its server with unique key (Random key) for each patient's entry. Using this website hospitals can not only keep track of COVID patients but also can do the entries for non-COVID patients. This makes website complete package for every hospital and each staff can work much efficiently.

V. SYSTEM ARCHITECHTURE
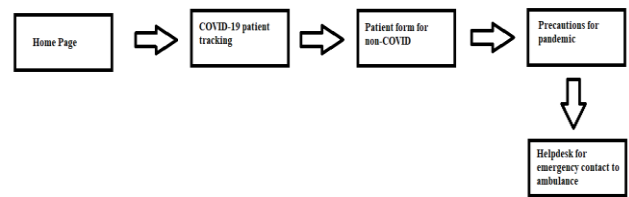
Functionality of systtem is –

1. The Staff of hospital or a visitor can visit 'Corona meter', which can keep the track of COVID patients.
2. Then he/she can navigate to 'Patient Form', in that if staff adds the entry of a Non-COVID patient then using Google Firebase's API, that entry will be store on to its server with unique key. The form will include basic information of patient like 'Name, Age, Disease, Symptoms, Treatment' etc.
3. Using preventions tab, doctors will consult patient to take care themselves by following the norms for their safety.
4. In an emergency, to contact ambulance 'Helpdesk' will include helpline number and 'Arogya Setu' app link for self-diagnosis.

MODULES DEVELOPED

We suggest that you use a text box to insert a graphic (which is ideally a 300 dpi TIFF or EPS file, with all fonts embedded) because, in an MSW document, this method is somewhat more stable than directly inserting a picture.

To have non-visible rules on your frame, use the MSWord "Format" pull-down menu, select Text Box > Colors and Lines to choose No Fill and No Line.

III. FUTURE SCOPE

The scope for project is even if the pandemic gets over and vaccine arrives for COVID-19, the website will continue to provide patient form, in that data entries of non-COVID patients can be added. In future, if new Pandemic occurs then any API which tracks the count of that pandemic can be added to the coding section, so that meter will start the count of new pandemic.

IV. CONCLUSION

The project "Pandemic Recorder" is something different from other projects. Using simple UI and easy operations makes website fast and reliable to user. Every other website made during this period lacks the functionalities that this website fulfills.

V. REFERENCES

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