MINI PROJECT – (II)

(2021-2022)

Covid19-Tracker

<u>SYNOPSIS</u>

DEPARTMENT OF COMPUTER ENGINEERING & TECHNOLOGY

INSTITUTE OF ENGINEERING & TECHNOLOGY

<u>Submitted To:</u>　　　　<u>Submitted By:</u>

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<u>Declaration</u>

I/we hereby declare that the work which is being presented in the Bachelor of technology. Project **"Covid19-Tracker"**, in partial fulfilment of the requirements for the award of the *Bachelor of Technology* in Computer Science and Engineering and submitted to the Department of Computer Engineering and Applications of GLA University, Mathura, is an authentic record of my/our own work carried under the supervision of **Mr. Mandeep Singh, Technical Trainer, Dept. of CEA,GLA University.**

The contents of this project report, in full or in parts, have not been submitted to any other Institute or University for the award of any degree.

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Certificate

This is to certify that the project entitled "Covid19- Tracker", carried out in Mini Project – II Lab, is a bonafide work by Yash Garg, Yash Verma, Yashasvi Gupta and is submitted in partial fulfilment of the requirements for the award of the degree Bachelor of Technology (Computer Science & Engineering).

Signature of Supervisor:

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ACKNOWLEDGEMENT

Presenting the ascribed project paper report in this very simple and official form, we would like to place my deep gratitude to GLA University for providing us the instructor Mr Mandeep Singh, our technical trainer and supervisor.

He has been helping us since Day 1 in this project. He provided us with the roadmap, the basic guidelines explaining on how to work on the project. He has been conducting regular meeting to check the progress of the project and providing us with the resources related to the project. Without his help, we wouldn't have been able to complete this project.

And at last but not the least we would like to thank our dear parents for helping us to grab this opportunity to get trained and also my colleagues who helped me find resources during the training.

Thanking you

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ABSTRACT

Data visualization is an important tool for exploring and communicating findings in medical research, and specially in epidemiological surveillance. The COVID19-Tracker a systematically produces daily updated data visualization and analysis of SARS-CoV-2 epidemic in Spain. It collects automatically daily data on COVID-19 diagnosed cases, intensive care unit admissions, and mortality, from February 24th, 2020 onwards. Two applications have already been developed;

1) to analyze data trends and estimating short-term projections

2) To assess the effect of the lockdown on the trend of incident data. We are currently planning to improve the app by uploading shortly new applications for data visualization and analysis, which may help for a better understanding of the SARS-CoV-2 epidemic data in Spain.

1.INTRODUCTION

The "Covid-19 Tracker" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system with design for the particular need of the company to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. No formal knowledge is needed for the user to use the system. Thus by this all it proves it is user friendly. Covid19- Tracker app as described above can lead to error free, secure, reliable platform. It can assist the user to concentrate on the other activities rather to concentrate on the record.

2.Existing System

Whenever we implement new system it is developed to remove the shortcomings of an existing system. The computerized has more Edge over the manual system. As we are doing a project on "Covid-19 Tracker". So firstly we will introduce the existing system, the existing system based on manual system, which takes lot of time to get performance of the test. The Existing System doesn't fulfilling the following activities. • Aims to develop content in the COVID 19 category • We intend to populate the site with practical, credible and thoughtprovoking information.

3.Proposed Technologies

1. **HTML: Hypertext Markup Language** (**HTML**) is the standard markup language for documents designed to be displayed in a web browser

2. **CSS:** For making interfaces more attractive and stylish.

3. **React:** React is a declarative, efficient, and flexible JavaScript library for building user interfaces. It lets you compose complex UIs from small and isolated pieces of code called "components".

4. **JAVASCRIPT:** JavaScript is high-level, often just-in-time compiled, and multi-paradigm. It has curly-bracket syntax, dynamic typing, prototype-based object-orientation, and first-class functions.

5.<u>Use of this project</u>

This project aims to develop content in the COVID 19 category and also the Respiratory and Mental Health Sections of Physiopedia as a response to the COVID-19 pandemic. We intend to populate the site with practical, credible and thought-provoking information on all aspects of management of individuals with a diagnosis of COVID-19. There is currently a lot of discussion on the aftermath of COVID 19, although it is not completely past us there are a lot of people recovering with continued needs. As many of the current topics focus on rehabilitation and mental health not only of patients but health workers too we decided to review the following categories.

- Respiratory

- Cardiopulmonary

- COVID – 19

- Mental Health

6.Feasiblity of Project

The spread of Covid-19 and its new variants is worsening on the World due in part to the many health challenges that existed prior to the pandemic. This project is Feasible enough to help policymakers to analyze the impact of these preexisting challenges more effectively, by providing them with up-to-date data and digital tools so that they can better plan their Covid-19 response.

A. Economical Feasibility :
This is a very important aspect to be considered while developing a project. We decided the technology based on minimum possible cost factor. • All hardware and software cost has to be borne by the project members.

B.Technical Feasibility:
This included the study of function, performance and constraints that may affect the ability to achieve an acceptable system. For this feasibility study, we studied complete functionality to be provided in the system, as described in the System Requirement Specification (SRS).

C.Operational Feasibility:
No doubt the proposed system is fully GUI based that is very user friendly and all inputsto be taken all self-explanatory even to a layman. Besides, a proper training has been conducted to let know the essence of the system to the users so that they feel comfortable with new system. As far our study is concerned the clients are comfortable and happy as the system has cut down their loads and doing

7.<u>Future Scope</u>

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding :

* We can add Vaccine tracking system in our app for more information about recent condition.

* We can add more new diseases in the system so that it can become more diverse/useful.

* We can host the platform on online servers to make it accessible.

* We can Implement the backup mechanism for taking backup of codebase and database on regular basis on different servers.

The above mentioned points are the enhancements which can be done to increase the applicability and usage of this project. Also, as it can be seen that now- adays the players are versatile. Also Enhancements can be done. We have left all the options open so that if there is any other future requirement in the system by the user for the enhancement of the system then it is possible to implement them. In the last we would like to thanks to all the persons involved in the development of the system directly or indirectly we hope that the project will serve its purpose for which it is developed there by underlining success of process.

8.Software Requirements

- **Database**   **:** My SQL/PHP

- **User Interface Design**   **:** HTML, CSS, React

- **Web Browser**   **:** Mozilla, Google Chrome, IE8,OPERA

- **Software**   **:** Vs code

- **Operating System**   **:** Windows

9.Hardware Requirements

- **Hard Disk**   **:** 100MB upto 210 MB

- **RAM**   **:** 4GB

- **Processor**   **:** Core i3 (8th generation)

- Computer Device, Mobile (To check the working of our website).