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Covid 19 Tracking System Using React Technology

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ABSTRACT: As a COVID-19 disease continues to spread all over the worldwide pandemic, endangering the state of world public health and becoming the intense threat to Global community. To combat and stop and prevent the spread of this virus,Each person should be well-informed of the rapidly spreading of COVID-19. Analysing the information of a deadly pandemic that has created a predicament in this glorious world and has caused a large amount of deaths may be a need of this hour specified we are able to easily take preventive measures and hold this pandemic growth and eliminate it with certain measures and proper planning and a study is stand in need for to analyse. The most important is to present a idea that how knowledge to an emerging frontend technology like React JS can result in a beautiful user interface that may function a data analyser web software for this dangerous pandemic. The matter revolves around a project created with a bunch of features of React JS from exciting frontend components with Material UI to writing CSS, JSX and making API calls to gather worldwide data associated with Corona virus. The most important highlights of the project entitled is there are not any page reloads, responsiveness, body-parsing, API needs data collection, JSX (HTML inside JS), sorting algorithms, dynamic data representation, REDUX, data representation in dynamic graphs/pie charts. During this an outsized number of npm packages like react, react-dom, @material-ui etc together with React JS and CSS library like Material UI has been utilized in order to code the web site such it leads to a beautiful, responsive and a gorgeous project with one technology that's JS. Well our focused is to create a private to be alert about the rising no. of latest cases, no of daily recover cases and no of death specifically state or country. This above mention things are shown by the assistance of map and chart. the online software may be a complete package of features of React JS integrated with another frontend technologies like CSS and material UI hunting which any user can analyse the information associated with corona virus geographically and even as graphically.

KEYWORDS: Dynamic Data Representation; NPM packages; JSX; JSON; API calls; Library components.

I. INTRODUCTION

Covid 19 tracking system could be a useful website with aalot of exciting features that it offers to the users from no page reloads to any or all corona virus related data under one web content.

it's claimed that the coronavirus disease 2019 (COVID-19) pandemic has had a negative impact on mental state. However, it's important to spot which factors modulate the strain response to the pandemic. So this covid 19 tracker website will show us the covid current live cases ,recovered cases and even death cases of world wide.By tracing we are able to identify the hotspots and may take precautions before visiting anyplace which shows and has more cases happening.

It covers all scenarios to attain the wants of any user trying to find worldwide or country wise details regarding corona virus. This website is created for purpose for serving its users to the fullest of it's potential by providing them a platform where they will get the information and data about covid 19 virus not only worldwide but also country wise and state wise and in graphical display yet as geographical view display.

Though the applying is predicated more on the frontend development but dynamic data is additionally given equal preference. the information is collected by asynchronous API calls to disease.sh that has dynamic data counting on the endpoint used during the decision. In simple words disease.sh acts as a server to which we make GET request to provided endpoint and in keeping with endpoint it gives JSON data in response.

II. LITERATURE REVIEW

In The literature review materialized during the last years of May 2020 and focused mainly on the online of Science (WOS) database, using Scopus and Dialnet as support for covid -19. The subject considered for the choice of articles was the one associated with the world pandemic caused by COVID-19 and the way it's affected psychologically and

motorically children up to 12 years old more. The subsequent keywords were used: "COVID-19" and "children" and therefore the Boolean operator "and." After this first search and taking into consideration only the works published in 2020, 837 scientific documents were obtained. and Spanish and Chinese, leaving a complete of 536. Since the pandemic started in China, the initial search was also worn out that language too, not finding any related articles but the articles signed by researchers of Chinese nationality are written in English and Chinese. Finally, the subsequent areas of research were chosen: "Psychology," "Sociology," and "Education Educational Research," finally limiting the search to 47 scientific articles, which frame the sample of this study.

III. PROPOSED SYSTEM

In this proposed system, i.e In Covid 19 Tracking system website we have make is more user friendly to use to User. In our website user can tracked particular country or state or any place in map can track and see the number of live cases of covid patients, number of recovered cases of covid patient , number of deaths cases of covid patient worldwide. Our website help user for the purpose to travel safely for example if suppose user wants to visit a particular place he/see can use this website to track the particular location the user wants to visit and can see the number of live cases and can take the preventive measure before visiting that particular place.
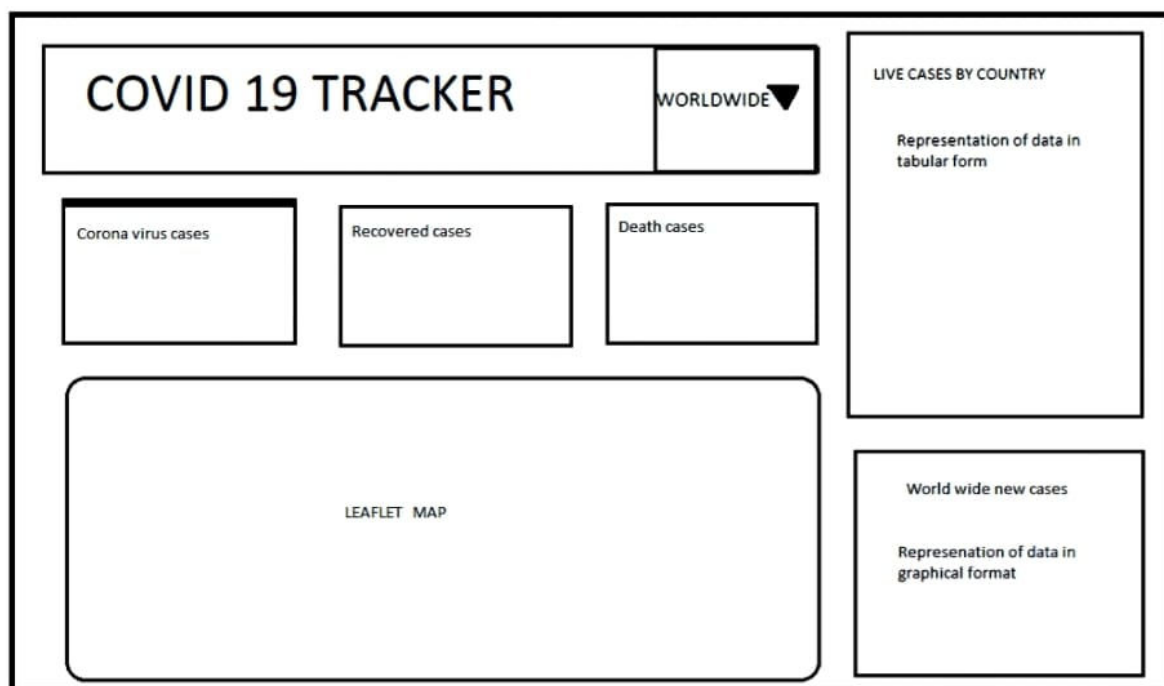
IV. BASIC STRUCTURE

Fig. Basic Structure of covid 19 website

V. ADVANTAGES

- Covid 19 tracking system are equipped with interactive elements for a better using experience.
- Anyone who wishes to visit a place or any particular location and wants to know the detail about that location they can use this website.
- React-native technology used in this system provides better performance
- User can often use this website to take preventive measures before visitng any place and can travel safely.
- One of the biggest advantages is that it is uses map to show the current hotspot places using different color which indicates number of cases as in more or less.

VI. CONCLUSION AND FUTURE SCOPE

Thus we conclude that this Covid-19 Tracker System will give live details about the cases across the world with exciting features that it offers the users from no page reloads to all coronavirus related data under a single web page. This website is developed for serving its users to the fullest of it's potential by providing them a platform where they can get the data and information about coronavirus not only worldwide but also country. wise and in graphical as well as geographical display.

Further implementation of some exciting features like it will depict problems faced by the people due to coronavirus with their solutions and will give data regarding vaccinations, number of bed available, oxygen, ICU and ventilators on a single web page.

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