Covid – 19 Tracking Application

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Abstract – In recent times the concept of Arogya Setu have gained great popularity. Consistent effort are being made by in the field of IoT. So we present an android application for Covid Patient Tracking. The Proposed system offer the covid tracking of the native country and the Global state. User can see media updates regarding the pandemic areas and hospitals, medicals with there information via location service.

Keywords -- *Location Service, Hospitals, Medical, News.*

I. INTRODUCTION

The Covid – 19 Tracking Application is very useful for maintaining Covid-19 record. This project is aimed to identifying patient within the Affected Radius. Here we gather data regarding Covid-19 patients and slow briefly where in the world the patients of covid-19 are.

In this application we also have shown News, Videos and Articles regarding Covid -19. We have further moved on to provide Users ability to locate nearby Hospitals and Medicals Stores within 10 kilometer radius using Geo – Location Service.

In Covid-19 Tracking Application user can track Covid-19 patient. User can see overall cases country wise and globally too. It can be done by using some API(Application Programming Interface) site. “corona.lmon.ninja.com”. we will get Total Patients, Total Death, Recover Cases, Active Cases, Critical Case etc. it will give tracking response to user via Location Service.

II. RELATED WORK

As we all know that, The mHealth application Arogya Setu can Substantially contribute to the containment and management of COVID-19. This study explores the experiences and expectation of Arogya Setu app users by conducting a combined content analysis of their reviews. Five hundred and three most relevant reviews were analyzed using the descriptive statistics and thematic analysis. The reviews are primary posted in the areas of user acceptance (80%), app usefulness (72.8%), and app features (62.2%). The Thematic analysis resulted in four themes user acceptance, app usefulness, promptness of the Indian Government in bringing the app on time, and concerns and cautions raised by the users. These help in strengthening the app features enabling the real-time data capture and analysis and providing timely information to authorities for better decision making.

Keywords : Arogya Setu app, combined content analysis, COVID-19, mHealth, technology acceptance.

III.THEORETICAL BACKGROUND

In everyday life, Coronavirus disease (COVID-19) is an disease caused by a newly discovered coronavirus. Most people infected. Older people and those with underlying medical problems like cardiovascular disease diabetes, chronic respiratory disease, and cancer are more likely serious illness. The best way to prevent and show down transmission is to be well informed about the COVID-19 virus, the disease it causes and how it spreads. Protect yourself and others from infection by washing your hands or using an alcohol based rub frequently and not touching your face.

The COVID-19 virus spreads primary trough of saliva or discharge from the nose when an infected person coughs or sneezes.

1. The system provide Tracking and Knowledge regarding Covid-19.

2. It Gives Media-Updates regarding the

Pandemic area about covid.

3. Application can Locate Hospitals, Medical

Store and there related news via Geo-Location Service.

4. In Covid-19 Tracking Application patient will get news about affected patient via Location Service in Background of Application.

IV.SYSTEM ARCHITECTURE

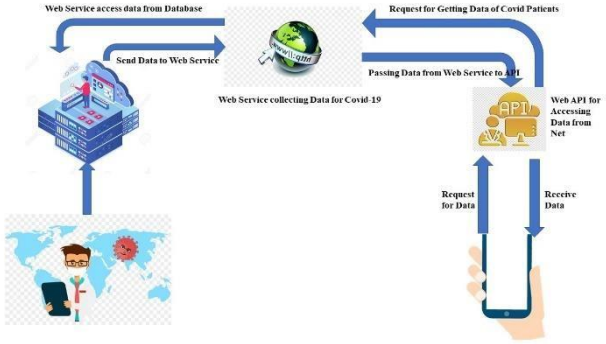


Fig. 1 System Architecture

The proposed system offer the Covid-19 Tracking of the native country and the Global. User can see media updates regarding the pandemic area. We can get Nearby Hospitals and Medical Store's can Located through the proposed system. Geo-fencing is used to locate Covid19 patients nearby user it will request to the server to get affected patient via location service. User will get related news about covid via world health organization.

Modules

User Module :

This module of the application deals with the user interface/user experience. This module provides the user with the flexibility of registering, logging. If the user is new to the application then, the user must register in the application by providing the user's details. After the registration, the user logs in using the user-id and password. Once the user logs in, then the user will see different services on dashboard.

Covid Tracking Module :

In Covid-19 Tracking Module, User can see country wise results like Total Cases, Total Deaths, Recovered Case, Affected Cases and Active Cases via API "corona.lmon.ninja.com".

Media Module :

In this module, User can get all related news about Covid19 and can see the Videos and Articles.

Hospital & Medical Module :

In this module, User will request for Covid -19 Tracking App then the application will request nearby places like Hospitals, Medical Stores, Address, Distance and get response from application via Location Service to User.

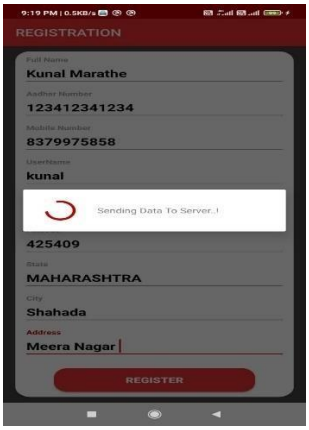
Geo-Fencing & Patient Tracking Module :

In this module , User can see all positive patient nearby by him. When the User enter in the Geo-Fencing then a red circle will be formed in it's radius that will be 200 meter long if positive patient will enter in radius he will get notification about that particular patient within his Name and Distance.

V. IMPLEMENTATION

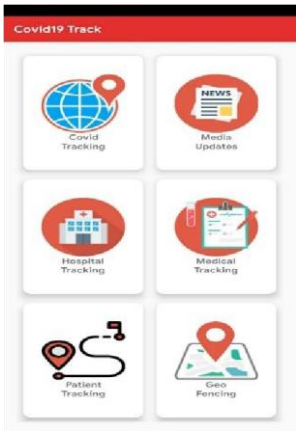
The user needs to install the "COVID-19 Tracking" application on his android based device.

Registration /Sign-up: Initially, the user has to register his details with the application for the first time. This is a onetime registration. The user has to enter details like username and password. All this data is stored on server.



Login Screen: Once the user register's, he can use his username and password to login in future. This authenticates the user.

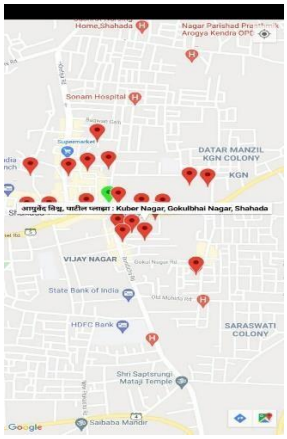
Dashboard: After login the application, dashboard will be flashed.



Covid Tracking: After login, we can see Global States or we can also search the Countries.

Media Updates: **S**erver gives covid information.

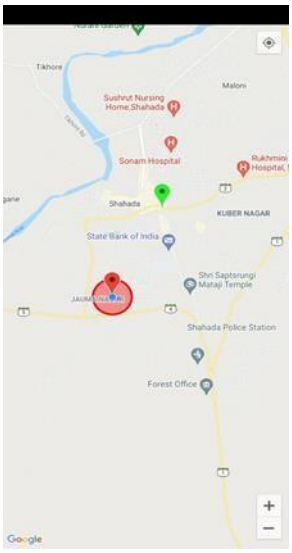
Hospital Tracking: User can get Hospital's Location via Location Service.



Medical Tracking: User can get Medical's Location via Location Service.

Patient Tracking:

Geo-Fencing Tracking:



VI. CONCLUSION AND FUTURE SCOPE

Conclusion:

Mobile apps are considered to be a valuable tool for citizens, health professionals, and decision makers in facing critical challenges imposed by the pandemic, such as reducing the burden on hospitals, providing access to credible information, tracking the positive patients, and providing news.

Future Scope:

The "Covid – 19" Application can be provide information about COVID-19 Vaccines. Location of some Covid-19 Camp which can provide vaccines can be given out by this Application.

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