**SARS\_COV\_2 Tracker**

SARS\_COV\_2 Tracker will be a web-based software application to be made available for cross-platform useability either from an Android, IOS device or even through Desktop that can be used by both government regulatory as well as by the common people. The designed application will be utilizing a central database system running on a server machine remotely.

This application is an initiative to find a work around in slowing down the fast spread of corona virus(covid-19) as per the issued guidelines of World Health Organisation (WHO) implementing a rapid and severe response against the virus which includes contact tracing, social distancing measures, surge in healthcare infrastructure and tailored communications. Keeping these guidelines in mind SARS\_COV\_2 Tracker application is designed for helping by:

* Providing updated, accurate and most relevant information via authorized sources
* Accelerating the speed of contact tracing process and identification efforts of the health authorities
* Notifying individuals immediately if they come in close proximity of suspected virus cases
* Enabling strict vigilance on self-isolated, home-isolated and quarantined families and individuals
* Facilitating relevant Covid-19 testing schedule
* Larger action for a global cause at both national as well as international level

Providing all these features without risking any information of the user i.e safeguarding the privacy of individual’s data. The use of centralized database assures that the patients data collected by the application is strictly used only for the sole purpose of reducing the spread of the virus. As the contact tracing access will be granted only to the health authorities and will be made sure that personal identity of the users is not revealed to any other third party. Data encryption will also be used to protect sensitive data.

**Benefits of SARS\_COV\_2 Tracker Application:**

The application would be using cloud computing technology and live location data of the user, enabling to quickly identify, trace and issue warning to those individuals who have been in contact with anyone exhibiting covid-19 like symptoms. Not only this the application targets on alerting the user in case of approaching an active case individual or location which comes under red zones where active case patient have visited.

In addition to above the application will also help in monitoring the movements of self-isolated, home-isolated or 14 days quarantined cases. Notifying the Healthcare workers to schedule the compulsory exit RT-PCR test before the end of their isolation period.

**Functions and Features Of SARS\_COV\_2 Tracker Application:**

1. **Language Selection:** The app is available in all 23 majorly spoken languages of India.
2. **Unique One Time Registration:** Performed at initial installation using OTP send on both registered mobile number and registered mail ID.
3. **Contact Tracing:** Alerts the user to get tested if they come in proximity of an active corona patient.
4. **Test Schedule/Appointment:** Scheduling the test including both lab as well as home sample collection for user ease and avoiding crowds.
5. **Payments:** Online payments through majorly accepted Master/Visa credit and debit card or via UPI transactions by all merchants (Paytm, PayPal, GPay etc)
6. **Test Results:** Online report generation of RT-PCR test.
7. **Declaration of Isolation:** Self declaration by the individuals for Self-quarantine practices.
8. **Registration for Vaccine:** Registration of the individual or family member for vaccination drives.
9. **Latest Announcements:** Including latest nation wise as well as international statistics on Corona Virus including active cases, recovered cases and morality rate in both tabular and graphical methods.
10. **Emergency Helpline:** Including emergency contact number of nearby responders in case of symptoms like shortness of breadth or severe cases to reduce response time by sharing database of available ICU and Emergency beds of nearby hospitals.