**Video Content in review mode:**

Today,the world is facing one of the humanity’s biggest crisis. Almost every country has been affected by the devastating covid-19 outbreak. India has recorded over 10,000 cases and millions of people have been affected indirectly. What is alarming is that the numbers likely stem from under-reporting and may probably rise in weeks ahead if we factor rapid tests.

Testing is important to guide individuals and public authorities in targeting social isolation and health supplies. Responding to the virus without adequate testing is like fighting a fire blindfolded. But the shortage of testing kits could dent India’s fight against coronavirus. In order to make the best use of the available kits we should prioritize who is to be tested based on their risk of exposure to virus.

So when you register with our app, information regarding your travel history and symptoms if any along with other information like medical history will be collected. Based on symptoms, travel history, age, gender, other chronic conditions, frailty index, socio-economic factors etc your risk of being exposed to the virus will be calculated.The individuals with the higher probability of getting infected will be prioritized for taking the test and will be scheduled an appointment on specific date & time slot during which their samples will be collected for testing. This will also avoid flocking of patients at the Collection Centers and avoid cross-contamination. Calculated risk of various patients shall be monitored close to real time, and accordingly the prioritization can also be altered dynamically. If some time slots get free in a testing center then the newly available slots can be offered to other future patients. The location of all people whose risk of being infected is more than a threshold value (say30%) will be tracked (until confirmed to be NOT COVID-19 +ve) which will further help the authorities in detecting the possible spread of virus from them. People determined to be at high risk by our algorithm, who skip their scheduled sample collection appointment shall also be reported to the authorities. Our algorithm can also indicate the communities where chances of community spread is high such that community testing can be prioritized. This will be based on the location extracted from the address of the patient, at the time of registration. .Our algorithm is also capable of recommending the samples to be grouped together to create the super-sample to be tested, in order to minimize the number of tests to be performed, in case if the authorities opt for ‘group test’. Once a a patient is tested COVID-19 positive, the authorities are notified about it with the relevant information so that they can take further actions.

Fighting coronavirus is crucial. This website helps us to make use of the limited resources available in the best possible way. Making use of such facilities helps people and also the authorities in fighting against the pandemic. With this prioritization in testing we shall overcome the problem due to lack of testing kits and also tracking the patients becomes easier.

**Video content with comments:**

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**Video Content without comments:**

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**Condensed content:**

There is huge lack of resources (testing-kits as well as trained personnel) to perform COVID-19 testing. It is very important that we can prioritize individuals as well as communities for optimum utilization and allocation of limited resources.

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**199 words content:**

**Due to huge lack of resources (testing-kits as well as trained personnel) for COVID-19 testing, it is important to prioritize individuals as well as communities for optimum utilization and allocation of limited resources.**

**To address the above issues we want to design an application. Based on symptoms, travel history, age, gender, chronic conditions, frailty index, socio-economic factors etc. individual's risk of being exposed to the virus will be calculated. Individuals with higher probability of getting infected will be prioritized for taking the test and will be scheduled an appointment for sample collection. testing. Calculated risk of patients shall be monitored close to real time, and prioritization can also be altered dynamically. The location of all people whose risk of being infected is more than a threshold value will be tracked (until confirmed to be NOT COVID-19 +ve) which can help the authorities to prevent the spread of virus. People who skip their scheduled sample collection appointment shall be reported to authorities. Our algorithm has a recommendation system to prioritize communities at higher risk of community spread as well as to suggest samples that can be grouped together to create super-sample to be tested, to minimize the number of tests.**