



# Problem Statements: The Innovation Challenges

## COVID -19

### **I. Chemical-free, non-toxic sanitization solutions**

The chemical sanitization solutions used currently do not prevent the possibilities of alcohol poisoning, which remains the same case for hand sanitizers. The chemicals eventually damage the animal tissues after prolonged usage. Suggest a solution which would be associated with non-toxic sanitization solutions.

### **II. Non-contact and efficient delivery solutions**

The COVID-19 pandemic has fostered people to re-evaluate their primacies very quickly and has forced them to adapt to the constraints set by governments imposing self-isolation. Expand and develop a contactless home delivery system that can play a vital role in ensuring a smooth-running lifestyle even within the houses.

### **III. Social distancing instruments - Educational Institutes Reopen.**

Post COVID-19 social distancing measures would be followed strictly in educational institutions.

Come up with innovative technological solutions to help monitor social distancing efficiently.

### **IV. Rectify the problem of vapor formation on the spectacles while wearing the mask.**

While wearing masks in this pandemic situation is a compulsion, on the other hand it creates a miserable condition for people using spectacles due to the formation of vapors on glasses. Formulate an innovative idea related to this problem.

# Differently-abled People

## **I. Social distancing measures.**

Differently-abled groups always need help or support of caretakers to aid in their daily activities, which will keep both the disabled and the caretaker away from the risk of transmitting and receiving diseases.

The problem is that social distancing norms are very hard to follow in their cases.

Design your solution to their problems.

## **II. Exams and Education**

The permanent lockdown for disabled groups during this outbreak has affected them in terms of education. The online video lectures and classes are hard to follow, particularly for them.

How will they manage to take proper training and exam? Solve.

## **III. Sanitation measures**

Cerebral palsy patients, for instance, can't even rub their hands to sanitize. They'll need physical aid to take care of their hygiene and sanitization.

Innovate technological hardware to make them independent in terms of personal sanitization.

## **IV. Miscellaneous problems.**

There exist thousands of other problems out of the consideration of this domain of the hackathon that especially abled face in their day to day lives.

This section invites thinkers to identify any problem and come up with any technology-based solutions for them.

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