**Team Name :** \_\_\_\_\_\_\_\_\_\_\_\_\_FREAKS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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|  | **Name** | **Branch and Semester** | **Contact Number** | **Email- ID** |
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**Note:**

1. One can participate either as a part of a team or an individual basis. Switching teams is not allowed.
2. The uploaded ideas will be screened to go to the second round.
3. Judging : competition entries shall be judged, or winners selected based on the following criteria

* Is the problem worth solving
* How innovative or novel is the idea
* Scientific accuracy
* Social impact
* Scalability

1. Decisions of IIC JSSSTU in respect of all matters to do with the competition will be final and no correspondence will be entertained.
2. In second round, the selected teams will have to present their idea in front of the jury panel.
3. Payment of INR 50 should be made to the UPI ID [**anju.marina.lobo@oksbi**](mailto:anju.marina.lobo@oksbi)and submit the transaction ID above.
4. Idea should be submitted in **.pdf** format.

**ABSTRACT**

*Better health is central to human happiness and well-being. It also makes an important contribution to economic progress, as healthy populations live longer, are more productive, and save more. As we all know about the deadly disease Coronaviruses (CoV). Coronaviruses are a large family of viruses whose effects range from causing the common cold to triggering much more serious diseases, such as severe acute respiratory syndrome, or SARS.* [*A novel coronavirus (nCoV)*](https://www.who.int/emergencies/diseases/novel-coronavirus-2019)*is a new strain that has not been previously identified in humans.* ***A single negative test may not*** *rule out infection. The currently available diagnostic test is a PCR(Polymerase**chain reaction ) test developed by the CDC (complete blood count), which looks for RNA from the virus. However, hospitalized patients infected with the new coronavirus can have test results that vary from day to day because the amount of virus produced by the body can change throughout the course of the illness, said Chiu.* ***So the best thing for us is to be cautious about the surroundings. Hence we want to build an app that warns us about the probability of being affected by cornavirus in a given area.***

**METHODOLOGY**

We first have to collect all the data from coronavirus quarantine, hospitals. Then analyze each of the infected person from the time they were infected to the places they have been, their family members etc. Then by using the data provided we can develop an android app to warn people about the probability of danger they are exposed to. Our app will provide notifications about the probability of being affected by cornavirusto the user as they enter from one area to another.

**INTRODUCTION**

Coronaviruses a large family of viruses that cause illness ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS-CoV) and [Severe Acute Respiratory Syndrome (SARS-CoV)](https://www.who.int/csr/sars/en/). New developments suggest coronavirus incubation could be longer than 14 days, as global infections rise. Meanwhile, experts fear that coronavirus [**will become a pandemic**](https://www.washingtonpost.com/health/coronavirus-outbreak-edges-closer-to-pandemic/2020/02/21/03afafc0-5429-11ea-9e47-59804be1dcfb_story.html). Here’s [**how epidemics such as that involving covid-19 end**](https://www.washingtonpost.com/graphics/2020/health/coronavirus-how-epidemics-spread-and-end/?itid=hp_rhp-visual-stories_no-name%3Ahomepage%2Fstory-ans) (and how to end them faster). When people die of the coronavirus, it’s not just the virus that kills them — it’s their own immune system. **Death toll in China's coronavirus jumps to 2,236; confirmed cases cross 75,400.** Standard recommendations to prevent infection spread include regular hand washing, covering mouth and nose when coughing and sneezing, thoroughly cooking meat and eggs. So, Avoiding close contact with anyone showing symptoms of respiratory illness such as coughing and sneezing.

**SOCIAL IMPACT**

While measurements of morbidity and mortality are key considerations for estimating the burden of disease in populations, they provide an incomplete picture of the adverse impact of ill health on human welfare. In particular, the economic consequences of poor health can be substantial. China's market fell 8% on the first day of trading after the holiday. There has been a particularly marked impact on the prices of industrial commodities, as China is such an important buyer. Crude oil hit its lowest level in more than a year. It has dropped by about 15% in the past two weeks, reflecting declining demand from China - underlined by reports the country's leading refiner, Sinopec, is cutting back.

During the 2003 SARS outbreak, tourist arrivals in Hong Kong dropped 68% just two months after the WHO issued a warning about the epidemic; Asia-Pacific carriers saw a US $6 billion loss in revenue and North American airlines saw another US $1 billion loss. Singapore tourism fell >70%, causing Singapore Airlines to place 6600 flight staff on unpaid leave. The H1N1 influenza resulted in a US $2.8 billion hit to Mexico's tourism industry, its largest service sector, with a loss of one million tourists over a five-month period due to contagion fears.

If the Coronaviruses continues to spread in nations in which tourism is a key component of the GDP, the economic impact of this disease on the travel industries will likely rise significantly. Our app could help in boosting up economy of the country and also the spread could be reduced.

**MARKET SURVEY**

The market is oversaturated with consumer products, yet the pursuit of developing and releasing new product innovations remains a widespread business objective for both startups and established companies. Businesses need to develop products that can meet demand while providing customers with a solution to their problems or give them something that they need. There’s an irrefutable connection between market research and developing successful customer-facing products. More than 25 countries have reported at least one case of coronavirus. Infections have been confirmed in France, India, Hong Kong, Japan, Nepal, Spain, Cambodia, Belgium, Singapore, Sweden, Egypt, the United Arab Emirates, Italy, Vietnam, Taiwan, Canada and Sri Lanka.The demand of this app is high as it includes economy and public health. ***This app could be very useful in metropolitan cities where the probability of of outbreak of cornavirus is more .*** It can also be used for limiting the spread of other deceases also by referring appropriate databases.