



HackTheVerse

Round 1





PRESENTS



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BRAIN STATION 23

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HACKATHON QUESTION

DOMAIN

Health

TOPIC

**Providing communication/analysis
generated from data streams in
medical systems/sensors**

During a pandemic, the most challenging task is to monitor the health condition of a patient on-site by health workers.

How can we ensure proper monitoring of patients through technology here?

In such a case, introducing technology-based solutions will be very beneficial. For this hackathon, we can make a software process to generate dummy data which will behave like a sensor.

The sensors could be anything that takes data from the body. Sensors could detect a heartbeat, body temperature, Urine, blood pressure, body movement, and so on.

These data will be sent into a streaming platform such as Kafka /kinesis /EventHubs or any other technology for real-time data transmission. From there, those data could be sent into a mobile app/web app/ desktop app. The doctors or nurses could use that app to drive valuable health-related information about the patient.

For example: If the heartbeat goes below a certain threshold then the app could trigger an alarm into the mobile phone of the doctor or nurse.

MARKING CRITERIA

Criteria	Weight
Problem Identification & Risk Analysis	10
Idea Formulation	10
Implementation plan & work progress	10
Documentation	20
Implementation	50

INSTRUCTIONS

For further instructions keep an eye on the Slack channel named announcement.

Projects can be in Android/iOS/Web/Desktops.

Note: IITSEC reserves the right to publish and distribute the documents to relevant parties. IITSEC reserves the right to make any changes before, during or after the event.