Brainstorm & idea prioritization

Team ID: PNT2022TMID29001

Project: A Gesture-based Tool for Sterile Browsing of Radiology Images

- 30 minutes to prepare
- 1 hour to collaborate
- 4 people

Team Leader: Gokhul T G Team Member: Akshaya TA M Team Member: Sriram K Team Member: Swetha G



Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

PROBLEM

The doctors' hands should be sterile inside the Operation Theatre. They would often need to pick some objects or would try to ask for some objects. They should be able to communicate without touching any objects which may lead to some infections. We try to avoid direct contact by recognizing the hand gestures of the doctors



(f) 5 minutes

using an UI that is associated with an AI model.



Brainstorm

Write down any ideas that come to mind that address your problem statement.

10 minutes



Use of high

camera enhanc

of gestrure

Fast and efficient

It should be

generalized

model

T.G.Gokhul

Gloves should not affect the gestures meaning

There is no

need for

verbal

comunication

It avoids nfections

hould wo

at any kind-

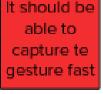
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Less

ossibiliti

of new

infection



here is no need for freguent sterility

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wiht a robot listracted

TA.M.Akshaya

Swetha.G

There is less f Hand Gesture:

should adap

to new

gestures in

The mode should be accurate

might be

biased

It is the future of medical domain

The model

could be

used in

dustries too

The mode should be stable at a kind of situatio

Sriram.K

The future gestures should not npact mode

Doctor Computer interaction based in nor verbal ommunicati

A better U

arge training data for eneralizatio



Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

(t) 20 minutes

Gloves and Infections

It avoids infections

Contactless

Gloves should not affect the gestures meaning

Less possibilities of new infections

Communication:

The future gestures should not impact model

The model should work at any kind of locations

Model Complexities:

The model might be biased

The model should adapt to new gestures in future

It should be generalized model

Sensors and cameras:

Computer interaction based in non verbal communication

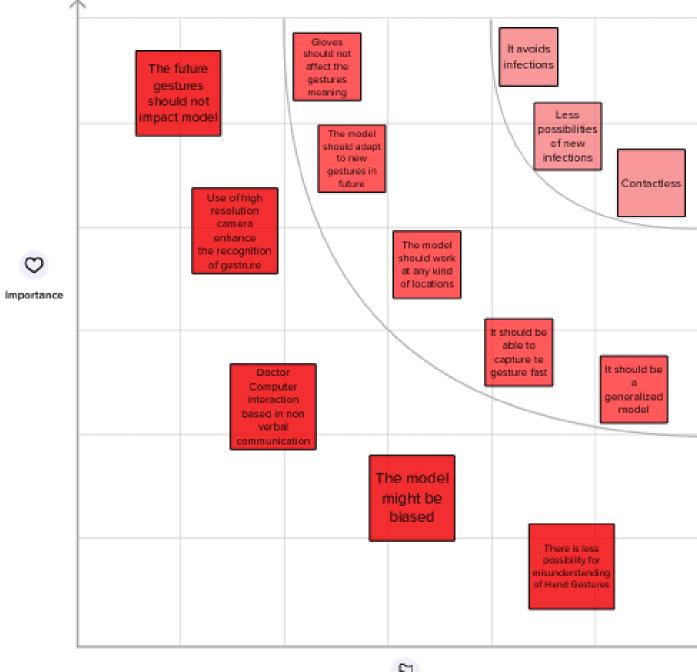
There is less possibility for isunderstandi Hand Gesture It should be able to capture te gesture fast

Use of high resolution amera enhance the recognition of gestrure

Prioritize

Your team should all be on the same page about what's important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

(b) 20 minutes





Feasibility