Brainstorm & idea prioritization

Team ID: PNT2022TMID31290

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

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

Team Leader: Agasthiya R Team Member: Ajay J

Team Member: Amrith Gold A Team Member: Chandru D



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.

⊙ 5 minutes

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 using an UI that is associated with an AI model.



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

@ 10 minutes



resolution

camera enhanc

of gestrure

Brainstorm

Fast and efficient

Gloves should not affect the gestures meaning

It should be There is no need for generalized verbal comunication model

rould wo at any kind of location

It avoids

nfection

ould also b ntegrate viht a robe

does not

here is no

need for

frequen

Ajay J

Chandru D

should b

able to

capture to

Amrith Gold A

Agasthiya R

There is less Hand Gestures

The model

should adapt

to new

gestures in

The model should be accurate

The mode

might be

biased

It is the future of medical domain

The model

could be

used in

dustries too

The mode should be stable at ar kind of situatio

Less

ossibilitie

of new

infection

Doctor Computer interaction based in nor verbal

should not

npact mode

The future gestures

arge training data for eneralizatio

A better U



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.

(5) 20 minutes

Gloves and Infections

It avoids infections Contactless

should not affect the gestures

Gloves meaning

Less oossibilities 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

Sensors and cameras:

Computer interaction based in non ommunication

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

It should be

generalized

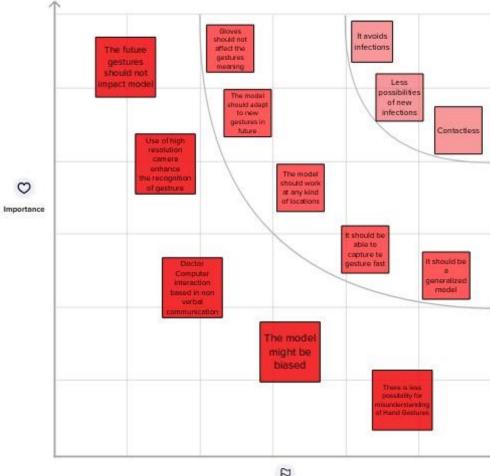
model

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.

© 20 minutes



Feasibility