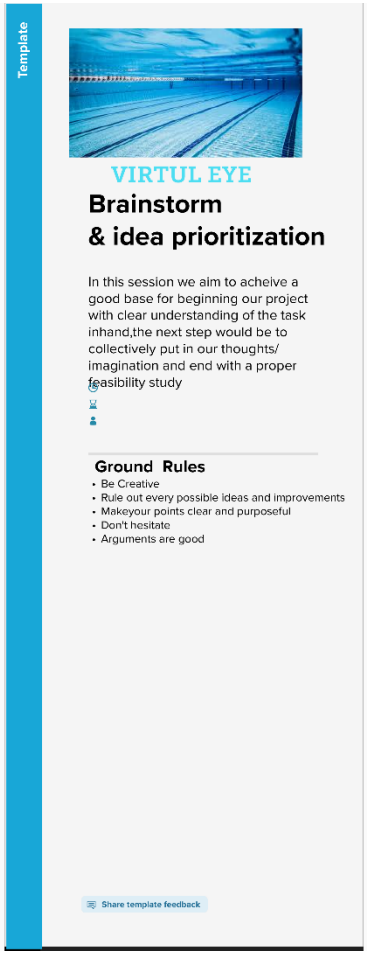
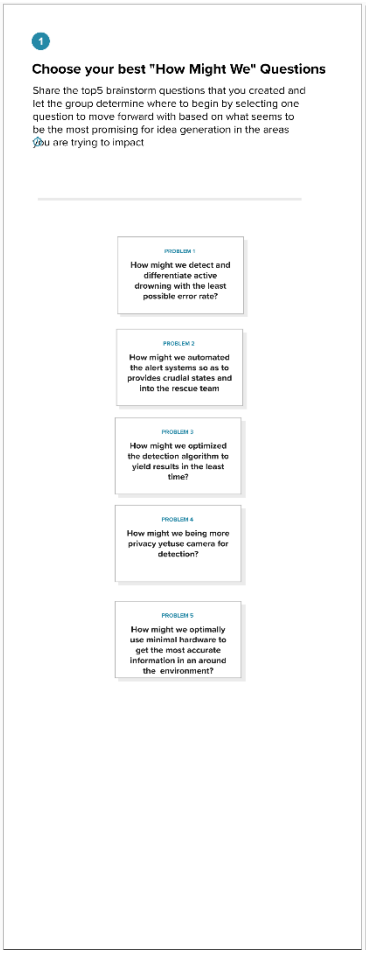
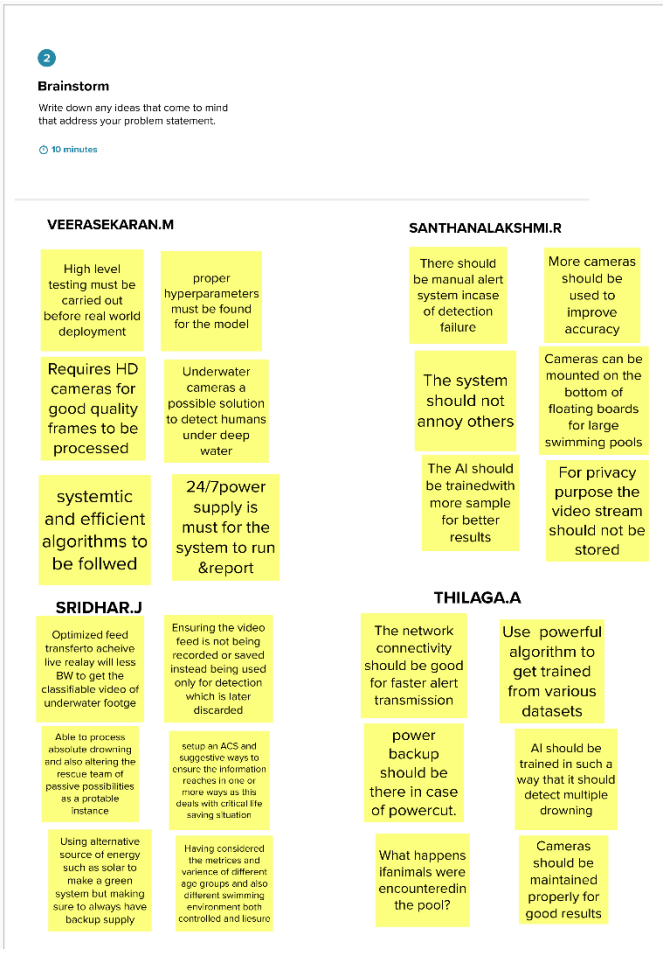
Ideation Phase
Brainstorm & Idea Prioritization

Date	17 October 2022
Team ID	PNT2022TMID45200
Project Name	VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	4 Marks

Brainstorm & Idea Prioritization:







3

Brainstorm as a group

Have everyone move their ideas into the 'group sharingspace'within the template and have the team silently read throgh them.As a team sort and group them by thematic topic or similarities.Discuss and answer any questions that arise encourage'Yes and,'and build on the ideas of other people along the way

⏱ 20 minutes

privacy

Ensuring the videos feed is not being recorded or saved instedbeing used only for detection which is later discarded

For privacy purpose the video stream should not be stored

User Perspective

Make sure the stakeholders know how the systems works and understand the possibility for systems work

The system should not annoy the swimmers

Power

24/7 power supply and power backup must for the system to run &report proper alerts to rescue team

Using alternative source of energy such as solar to make a green system but making sure to always have backup supply

Features

Having retro relective indicates given to children and newbies and teaching them signals to make the drowning detection easy

Having an integration with fitness band companies to get vital states of a swimmer to have better information and predict possibilities of a drowning incident

Will the system detect properly if the pool is clumsy?

Cameras & Hardwares

Cameras should be maintained properly for good results

System should detect multiple drowning and should report the same

Network & Connectivity

The network connectivity should be good for faster alert transmission

Optimized feed transfer to acheive live replay will less BW to get the classifiable video of underwater footage

AI & ML

Proper hyperpra meters must be found for the model

The AI should be trained with more samples for better results

AI should be trained in such a way that it should detect multiple drowning

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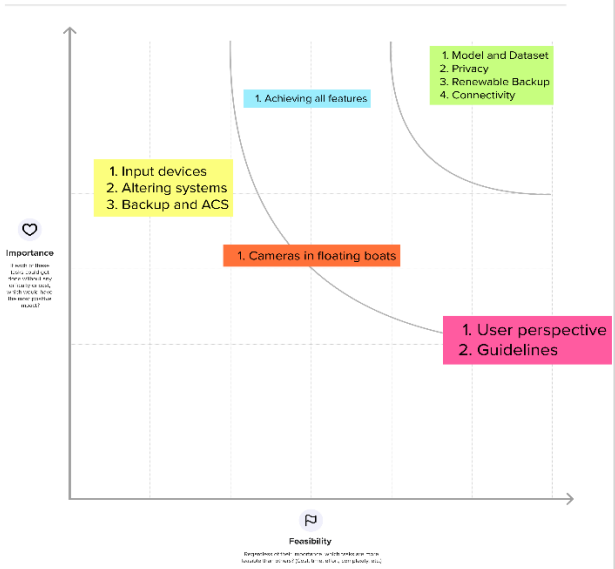
Prioritize

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



5

Decide your focus

Give each person two icons to vote which ideas should your team focus on & assign the duties & responsibilities

VEERASEKARAN Backend and integration on	**SANTHANLAKSHMI** Backend and MLA
SRIDHAR Frontend and Design	**THILAGA** Utilies

What's Next...

- Plan and code an efficient model and train it with the correct hyperparameters to produce a probable and accurate result.
- Comeup with the solution that is minimal,protable less intrusive and cost effective.