DATE	24 October 2022
TEAM ID	PNT2022TMID41614
PROJECT NAME	VIRTUAL EYE- LIFE GUARD FOR SWIMMING POOL TO DETECT ACTIVE DROWNING
MARKS	2 MARKS

Step-1: Team Gathering, Collaboration and Select the Problem Statement



VIRTUAL EYE 🏖

Brainstorm & idea prioritization

In this session we aim to achieve a good base for beginning our project. With clear understanding of the task in hand, the next step would be to collectively put in our thoughts/ imagination and end with a proper feasibility

Ground Rules

. Be Creative

problem

- Rule out every possible ideas and improvements
- Make your points clear and purposeful
- Don't hesitate. (Every point is noteworthy)
- . Arguments are good ALA it lands beneficial Have various perspectives towards the

Choose your best "How Might We" Questions Share the top 5 brainstorm questions that you created

and let the group determine where to begin by selecting one question to move forward with based on what seems to be the most promising for idea generation in the areas you are trying to impact.

(†) 10 minutes

OUESTION 1 How might we detect and differentiate active drowning with the least possible error rate?

QUESTION 2 How might we automate the alert systems so as to provide crutial stats and info to the rescue team ?

OUESTION 3 How might we optimize the detection algorithm to yield results in the least time?

> How might we bring more privacy, yet use camera for detection?

How might we optimally use minimal hardware to get the

most accurate information in an

around the environment?

10 minutes

Brainstorm solo

Kishore Kumar

Have each participant begin in the "solo brainstorm space" by silently

extroverts alike. Set a time limit. Encourage people to go for quantity.

brainstorming ideas and placing them into the template. This "silent-storming"

avoids group-think and creates an inclusive environment for introverts and

High level testing must be carried out before real world deployment.	Proper hyperparameters must be found for the model	Systemati and Efficie algorithms be followe
Requires HD cameras for good quality frames to be processed	Underwater cameras a possible solution to detect humans under deep water	24/7 Power supply is must for t system to r & report
Provide critical and proper message to the rescue team	Make sure the stakeholders know, how the system works.	Make sure to stakeholder understand th there is a possil for a false alarm well

Barani

optimized feed ransfer to achieve ive realay will less BW to get the lassifiable video of inderwater footage	able to process absolute drowning and also alrerting the rescue team of passive possibilities as a probable instance	setup an ACS and suggestive ways to ensure the information reaches in one or more ways as this deals with critical life saving situation
ensuring ways where there is a 100% jaurentee of spotting a frowning situations and lacing multiple cameras strategically to achive esults in unpredictable situations	ensuring the video feed is not being recorded or saved instead being used only for detection which is later discarded	using alternative source of energy such as solar to make a green system but making sure to always have backup supply
having an integration with fitness band companies to get vital stats of a swimmer to ave better informat and predict	having retro reflective indicators given to childeren and newbies and teaching them signals to make the drowning	
possabilities of a drowning incident	detection easy	controlled and liesure

Karthika

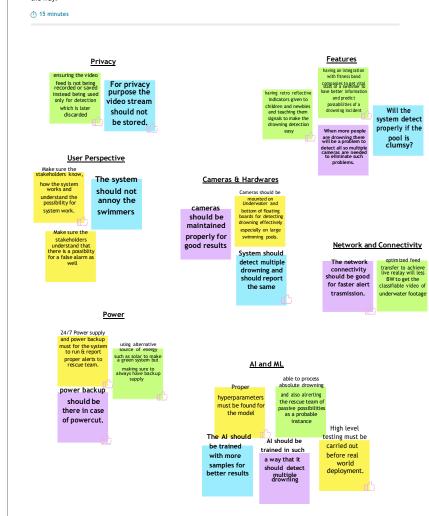
The Al should	There should	More camer
be trained	be manual alert	should be
with more	system in case	used to
samples for	of detection	improve
better results	failure	accuracy.
How will be the accuracy level in the system?	Will the system detect properly if the pool is clumsy?	System shou detect multip drowning an should repor the same
For privacy purpose the video stream should not	The system shouldnt annoy others	cameras can be mounted on the bottom of floating board for large swimming pool

Babhu Ganesh

power backup	The network connectivity should be good	cameras should be maintained
of powercut.	for faster alert trasmission.	properly for
What happens if animals were encountered in the pool?	Mean owns, panele will be a problem to detect all so multiple camemanase seaded problems.	Use powerful algorithm to get trained from various datasets.
Al should be trained in such a way that it should detect		

Brainstorm as a group

Have everyone move their ideas into the "group sharing space" within the template and have the team silently read through them. As a team, sort and group them by thematic topics or similarities. Discuss and answer any questions that arise. Encourage "Yes, and..." and build on the ideas of other people along



TIP

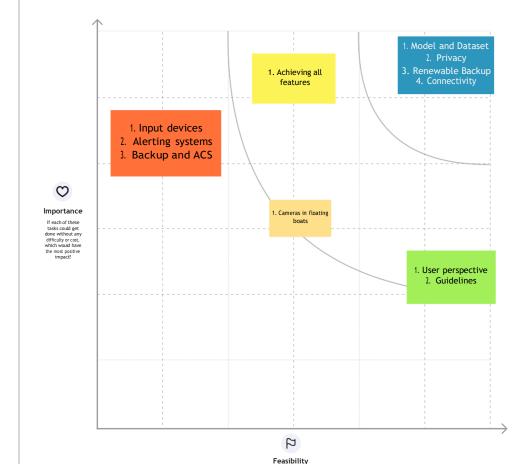
You can use the Voting session tool above to focus

on the strongest ideas.

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.

① 20 minutes



Decide your focus

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

Kishore Kumar Barani Backend and MLA Backend and Intergration Karthika Babhu Ganesh

Frontend and Design

and Utils

Whats Next...

- correct hyperparameters to produce a probable and accurate result. 2. Enhance the system to work in a proper environment in
- an integrated manner to yield a cohesive solution.

1. Plan and code an effecient model and train it with the

- 3. Create a proper frontend dash to give critial information with atmost clarity and least delay.
- 4. Comeup with the solution that is minimal, portable less intrusive and cost effective.



Team

Barani

Karthika Babhu Ganesh



















multiple drowning

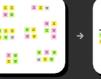


















Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)



