


Ideation Phase

Date	27 October 2022
Team ID	PNT2022TMID40981
Project Name	VirtualEye – Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	2 Marks



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 study.

Ground Rules

- Be Creative
- Rule out every possible ideas and improvements
- Make your points clear and purposeful
- Don't hesitate. Every point is noteworthy
- Arguments are good. AKA it tends beneficial
- Have various perspectives towards the problem

1 Choose your best "How Might We" Questions

Brain 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 area you are trying to target.

10 minutes

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

How might we accurately detect system so as to provide valid data and info to the rescue?

How might we utilize the detection algorithm to predict results to the best level?

How might we bring more privacy and less system for detection?

How might we utilize the use of external features to get the most accurate information from around the environment?

2 Brainstorm solo

Have each participant begin in the "solo brainstorm space" by identifying, brainstorming ideas and placing them into the template. This "solo-brainstorm" avoids group-think and creates an inclusive environment for thoughts and extroverted ideas. Set a time limit. Encourage people to go for quantity.

10 minutes

ASIAN S, NOVEN S, SARAH, VIKRAJ P, PRIYA DASARATHI S

3 Brainstorm as a group

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

10 minutes

Privacy: For privacy, ensure the video stream should not be stored.

User Perspective: The system should not annoy the swimmers.

Power: Power backup should be there in case of power cut.

AI and ML: Proper approximations must be made for the model.

General & Hardware: Camera should be maintained properly for good results.

Network & Connectivity: The network connectivity should be good for faster data transfer.

Features: The system should be able to detect active drowning.

4 Decide your focus

Give each person five stars to vote which idea should your team focus on.

5 minutes

ASIAN: Vikram Dasarathi, NOVEN: Vikram Dasarathi, VIKRAJ: Vikram Dasarathi, SARAH: Vikram Dasarathi

Whats Next...

"This was our efficient model approach with the correct hyperparameters to produce consistent and accurate results. We will be able to provide information to the rescue team in a timely manner. We will be able to provide information to the rescue team in a timely manner. We will be able to provide information to the rescue team in a timely manner."

Need some Inspiration?

Brainstorming ideas and placing them into the template. This "solo-brainstorm" avoids group-think and creates an inclusive environment for thoughts and extroverted ideas. Set a time limit. Encourage people to go for quantity.

10 minutes