

Ideation Phase

Date	17 October 2022
Team ID	PNT2022TMID30434
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 thoughtful imagination and end with a proper feasibility study.

Ground Rules

- Be Creative
- Rule out every possible ideas and improvement
- Make your point precise clear and purposeful
- Don't hesitate. (Every point is noteworthy)
- Arguments are good & it stands beneficial
- Have various perspectives towards the problem

1 Decide your best "How Might We" Questions

Share the top 5 brainstorm questions that you created and tell 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

2 Brainstorm solo

Have each participant begin in the "solo brainstorm space" by silently brainstorming ideas and placing them into the template. This "silent storming" avoids group think and creates an inclusive environment for introverts and extroverts alike. Set a time limit. Encourage people to go for quantity.

10 minutes

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

How might we automate the data capture so as to provide useful data and info to the rescue?

How might we optimize the detection algorithm to give results in less than 1 sec?

How might we bring more players and sensors for detection?

How might we optimally use external resources to get the most accurate information in a coastal environment?

3 Brainstorm as a group

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

10 minutes

4 Choose your focus

Give each person two icons to vote which idea should your team focus on.

5 minutes

Privacy

For privacy purposes 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 powercut

Features

Use the system direct properly if the goal is to connect?

Camera & Hardware

Camera should be maintained properly for good results

AI and ML

AI should be trained with more samples for better results

Network and Connectivity

The network connectivity should be robust

High level

All should be carried out before real world deployment

Whats Next....

"After we make an efficient model and track it with the correct implementation to produce a successful and accurate result."

"We will start working on the hardware part and integrate it with the software part to work in a proper framework as integrated systems to gain maximum accuracy."

"Once we have tested our team's idea with stakeholders who understand our idea & looking up with the solution, first it is implemented from laboratory and cost-effective"