


# Ideation Phase

Date	17 October 2022
Team ID	PNT2022TMID36530
Project Name	VirtualEye – Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	2 Marks



## VIRTUAL EYE

**Brainstorm & Idea prioritisation**

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 implementations
- Make your points clear and purposeful
- Don't hesitate. (Every point is noteworthy)
- Arguments are good. R.A. it's hard to defeat!
- Have various perspectives towards the problem

### 1 Choose your best "How Might We" Questions

Show 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 impact.

10 minutes

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

QUESTION 2  
How might we accurately detect swimmers as to provide water alerts and info to the rescue?

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

QUESTION 4  
How might we bring more privacy and no camera for detection?

QUESTION 5  
How might we optimally use external features to get the most accurate information to us around the environment?

### 2 Brainstorm solo

Have each participant begin in the "solo brainstorm space" by silently brainstorming ideas and placing them into the template. This "silent-drawing" avoids groupthink and creates an inclusive environment for shy and extroverted alike. Set a time limit. Encourage people to go for quantity.

10 minutes

**Attack 5**  
How might we detect and differentiate active drowning with the least possible error rate?  
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**Process 5**  
How might we detect and differentiate active drowning with the least possible error rate?  
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**Defend 5**  
How might we detect and differentiate active drowning with the least possible error rate?  
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**IMAGLOP**  
How might we detect and differentiate active drowning with the least possible error rate?  
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**PRIVACY CHALLENGES**  
How might we detect and differentiate active drowning with the least possible error rate?  
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### 3 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 themes, topics or similarities. Discuss and answer any questions that arise. Encourage "yes, and..." and build on the ideas of other people along the way.

10 minutes

**Privacy**  
How might we detect and differentiate active drowning with the least possible error rate?  
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**User Perspective**  
How might we detect and differentiate active drowning with the least possible error rate?  
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**Power**  
How might we detect and differentiate active drowning with the least possible error rate?  
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**Cameras & Hardware**  
How might we detect and differentiate active drowning with the least possible error rate?  
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**AI and ML**  
How might we detect and differentiate active drowning with the least possible error rate?  
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**Network and Connectivity**  
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**Features**  
How might we detect and differentiate active drowning with the least possible error rate?  
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### 4 Decide your focus

Give each participant two cards to vote which idea should your team focus on.

5 minutes

**IDEAS**  
QUESTION 1  
QUESTION 2  
QUESTION 3  
QUESTION 4  
QUESTION 5

**HOVER**  
QUESTION 1  
QUESTION 2  
QUESTION 3  
QUESTION 4  
QUESTION 5

**PRIVACY CHALLENGES**  
QUESTION 1  
QUESTION 2  
QUESTION 3  
QUESTION 4  
QUESTION 5

### Whats Next...

What are the next steps in your project? What are the next steps in your project? What are the next steps in your project?