

Ideation Phase

Brainstorm & Idea Prioritization Template

Date	19 September 2022
Team ID	PNT2022TMID11425
Project Name	VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	4 Marks


Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

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

Template



Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start shaping concepts even if you're not sitting in the same room.

- 🕒 10 minutes to prepare
- 👥 1 hour to collaborate
- 👤 2-8 people recommended

📄 Share template feedback

➡

Before you collaborate

A little bit of preparation goes a long way with this session. Here's what you need to do to get going.

🕒 10 minutes

Team gathering

Goal setting

Innovate the ideas

1

Define your problem statement

What problem are you trying to solve? Frame your problem as a How Might We statement. This will be the focus of your brainstorm.

🕒 5 minutes

PROBLEM

VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning

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Key rules of brainstorming

To run a smooth and productive session

- 👤 Stay in topic.
- 💡 Encourage wild ideas.
- ⏸️ Defer judgment.
- 👂 Listen to others.
- 🗣️ Go for volume.
- 👁️ If possible, be visual.

Step-2: Brainstorm, Idea Listing and Grouping

2

Brainstorm

Write down any ideas that come to mind that address your problem statement.

🕒 10 minutes

G.K.Ishwarya

The network connectivity should be good for faster alert transmission.

having considered the metrics and variance of different age groups and also different swimming environments controlled.

R.Gopika

Systematic and efficient algorithms to be followed

having an integration with fitness band companies to get vital status of a swimmer

make sure the stakeholders understand that there is a possibility for a false alarm as well

For privacy purpose the video stream should not be stored

The AI should be trained with more cases for good results

use powerful algorithm to get trained from various datasets.

G.M.Jeevapriya

24/7 power supply is must for the system to run & report

High level testing must be carried out before real world deployment

S.Divya

What happens if animals were encountered in the pool?

The system should not annoy others

requires HD cameras for good quality frames to be processed

power backup should be there in case of powercut.

provide critical and proper message to the rescue team

when more people are drowning there will be a problem to detect all so multiple cameras are needed to eliminate such problems.

P.Jeyadarshini

ensuring the video feed is not being recorded or saved

make sure the stakeholders know, how the system works

underwater cameras a possible solution to detect humans under deep water

cameras should be maintained properly for good results

3

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

🕒 20 minutes

privacy

Ensuring the video feed is not being recorded or saved

For privacy purpose the video stream should not be stored

Features

having an integration with fitness band companies to get vital status of a swimmer.

when more people are drowning there will be a problem to detect all so multiple cameras are needed to eliminate such problems.

User perspective

make sure the stakeholders know, how the system works.

The system should not annoy the swimmers

Cameras

requires HD cameras for good quality frames to be processed

cameras should be maintained properly for good results

Make sure the stakeholders understand that there is a possibility for a false alarm as well

Power

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

power backup should be there in case of power cut.

AI and ML

The AI should be trained with more samples for better results.

High level testing must be carried out before real world deployment.

Network and connectivity

The network connectivity should be good for faster alert transmission.

Step-3: Idea Prioritization

4

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

