


Ideation Phase

Brainstorm & Idea Prioritization Template




Date	24 September 2022
Team ID	PNT2022TMID30129
Project Name	Project – Virtual Eye – Lifeguard for Swimming Pool To Deduct Active Drowning
Maximum Marks	4 Marks

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




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

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 **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

A Team gathering
Define who should participate in the session and send an invite. Share relevant information or pre-work ahead.

B Set the goal
Think about the problem you'll be focusing on solving in the brainstorming session.

C Learn how to use the facilitation tools
Use the Facilitation Superpowers to run a happy and productive session.


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1 Define your problem statement


Currently swimming has become one of the popular activities performed by all the age groups and at the same time many difficulties arise for new learners and possibilities of drowning is high. But this system provides ~~an~~ **assurance** for them.


PROBLEM


How might we [your problem statement]?


**Key rules of brainstorming**


To run an 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

TIP
You can select a sticky note and hit the pencil button to make it editable to start describing

GOKUL RAM

Capturing sequence of pictures to detect the drowning in pool	Smart surveillance system can be used for detection in all water bodies
Automated visual based monitoring system reduce drowning and assure safety	Using Convolutional Neural Network (CNN) model to detect drowning in 3 stages

GOPINATH

Recognize with static and dynamic features to detect normal drowning persons	Developed and demonstrated by proteus design suite and also using YOLOv6 algorithm
Detection by smart sensor surveillance which will be more accurate	Detection based on color based algorithm to position and rescue swimmers

BARATH

Abnormal speed of swimmer indicates that they are drowning	Inflatable tube mounted self driven drone alarms the nearby lifeguards
Using drowning detection enable swimming goggles	By using sensors in band we can find the exact drowning location of the swimmer

DEEBAKRAAJ

Taking videos and analyze drowning by Lince observation software	Quantitative and qualitative analysis by the struggles and high frequency resurfacing behaviour
Analyzing the video in a frame by frame manner to detect the swimmers exact movements	Tracking the motion of people by using VIBE algorithm

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 can break it up into smaller sub-groups.

20 minutes

IDENTIFICATION

Developed and demonstrated by proteus design suite and also using YOLOv6 algorithm		Using Convolutional Neural Network (CNN) model to detect drowning in 3 stages
	Tracking the motion of people by using VIBE algorithm	
Taking videos and analyze drowning by Lince observation software		Using drowning detection enable swimming goggles

MODULE

Automated visual based monitoring system reduce drowning and assure safety		Quantitative and qualitative analysis by the struggles and high frequency resurfacing behaviour
	Recognize with static and dynamic features to detect normal drowning persons	
Inflatable tube mounted self driven drone alarms the nearby lifeguards		Abnormal speed of swimmer indicates that they are drowning

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

