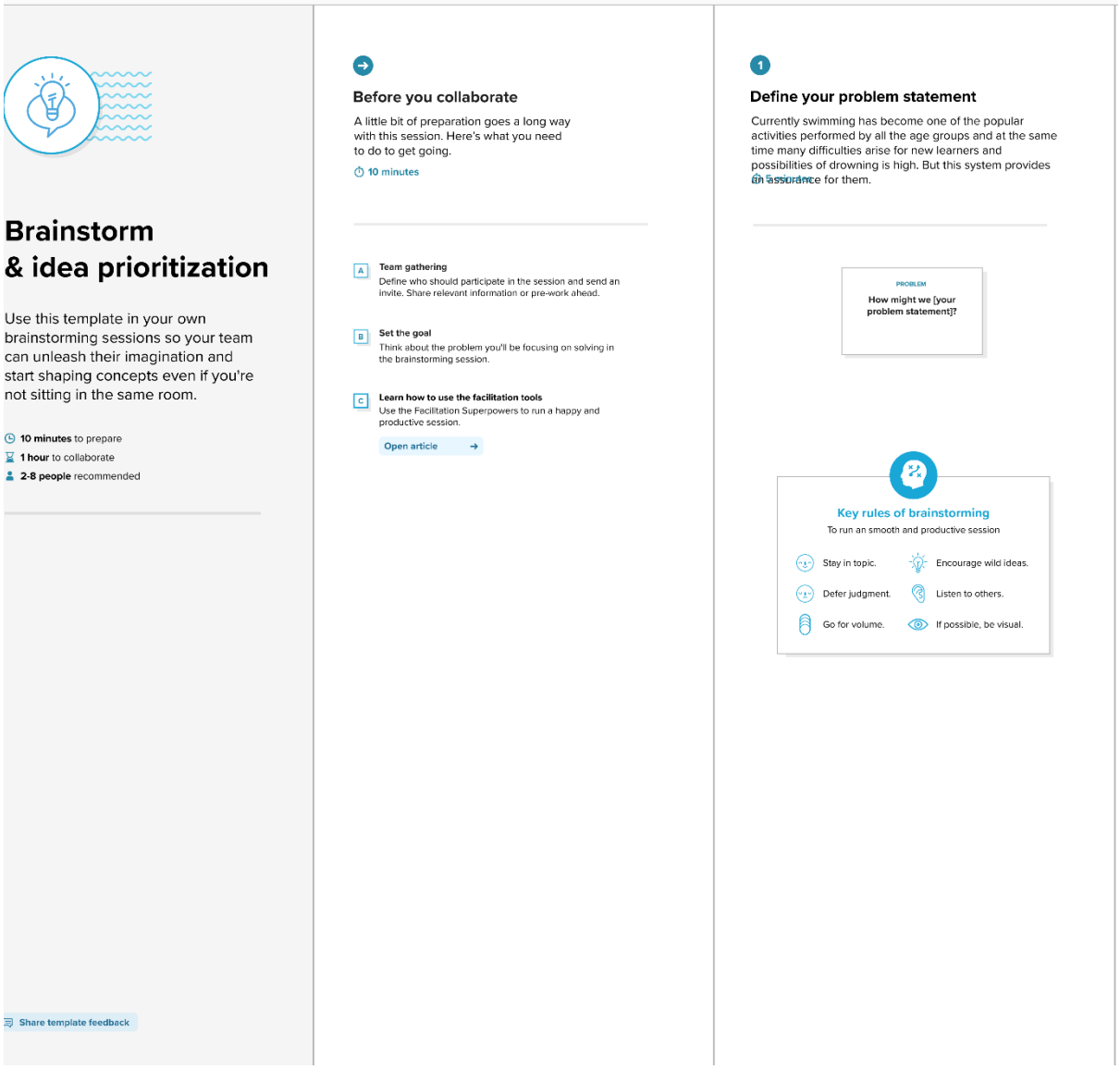
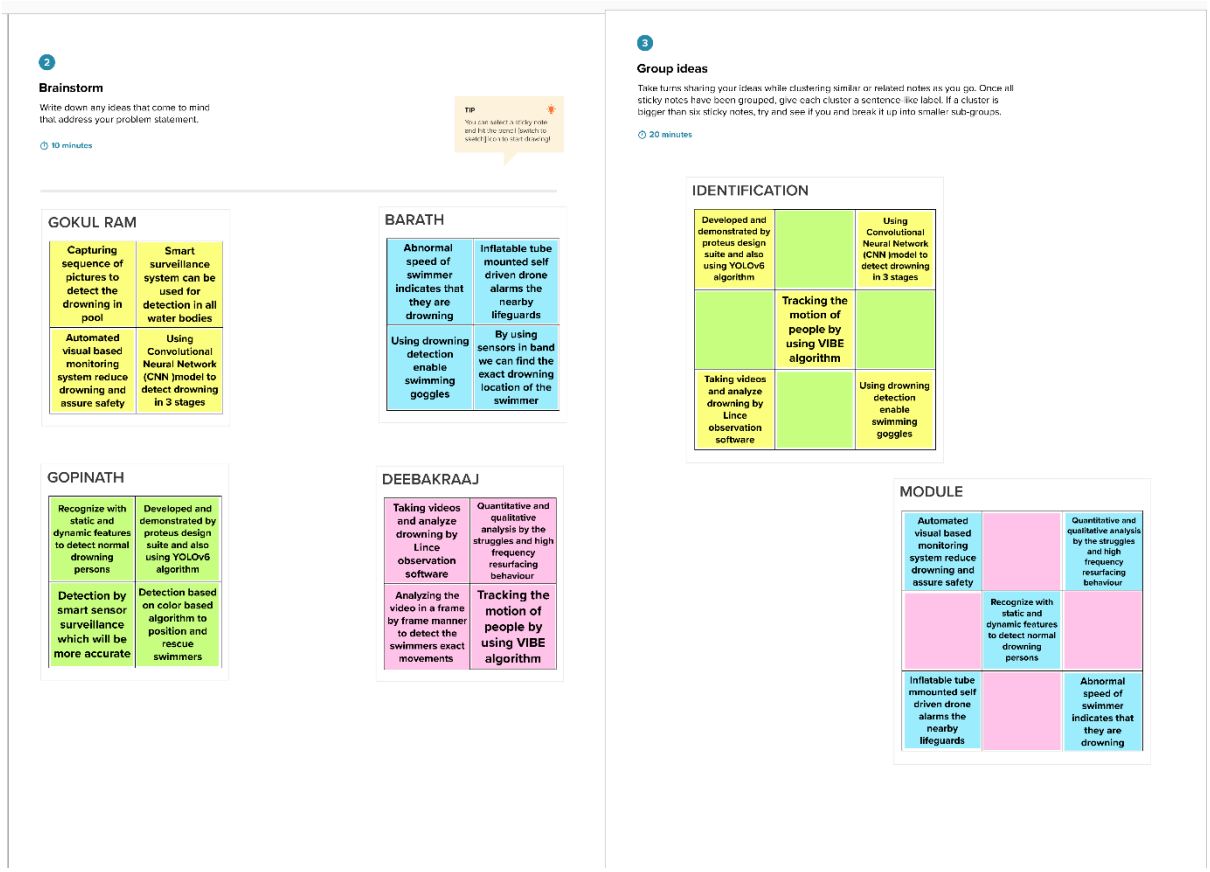
Ideation Phase
Brainstorm & Idea Prioritization Template

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



Step-2: Brainstorm, Idea Listing and Grouping



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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 space bar to switch to sketching mode to start drawing!

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

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

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

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

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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

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 mmounted self driven drone alarms the nearby lifeguards		Abnormal speed of swimmer indicates that they are drowning

Step-3: Idea Prioritization

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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