Ideation Phase
Empathize & Discover

Date	19 September 2022
Team ID	PNT2022TMID13390
Project Name	Project – VirtualEye – Life guard for swimming pools to detect active drowning
Maximum Marks	4 Marks

Empathy Map Canvas:

Swimming is one of the best exercises that helps people to reduce stress in this urban lifestyle

Swimming pools are found larger in number in hotels, and weekend tourist spots and barely people have them in their house backyard.

To overcome this conflict, a meticulous system is to be implemented along the swimming pools to save human life.

Children under six of their age are found to be suffering the highest drowning mortality rates worldwide.

Beginners, especially, often feel it difficult to breathe underwater which causes breathing trouble which in turn causes a drowning accident.

Worldwide, drowning produces a higher rate of mortality without causing injury to children.

By studying body movement patterns and connecting cameras to artificial intelligence (AI) systems we can devise an underwater pool safety system that reduces the risk of drowning.

The system is not designed to replace a lifeguard or other human monitor, but to act as an additional tool.

Usually, such systems can be developed by installing more than 16 cameras underwater and ceiling and analyzing the video feeds to detect any anomalies.

It is higher then an alert will be generated to attract lifeguards' attention.

As a POC we make use of one camera that streams the video underwater and analyses the position of swimmers

It helps the lifeguard to detect the underwater situation where they can't easily observe.