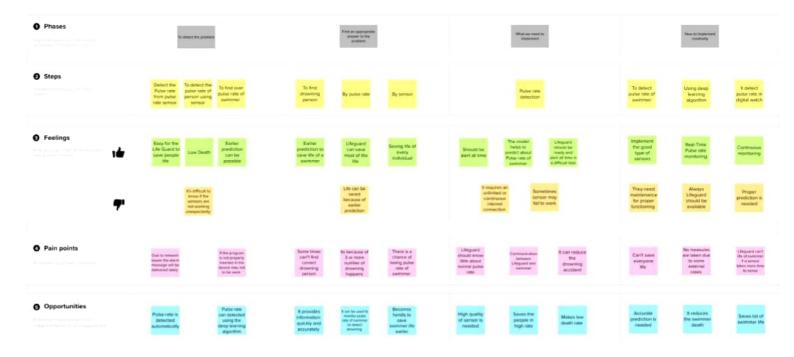
Project Design Phase - II

Customer Journey Map

Date	17 October 2022
Team ID	PNT2022TMID26933
Project Name	VirtualEye – Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	2 Marks



SHALLOW WATER BLACKOUT: HOW IT HAPPENS

Prolonged underwater breath holding can be deadly; here's why.

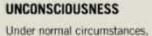
HYPERVENTILATION

Overbreathing either consciously, or as a result of overexertion, artificially lowers carbon dioxide levels.



OXYGEN DROPS

As the breath hold begins, oxygen is metabolized and carbon dioxide levels increase. As the breath hold continues, the body becomes starved of oxygen.



increased carbon dioxide
would trigger a breath, but
because CO2 levels were so
low upon submersion (due to
hyperventilation) there is not
enough to initiate a breath, and
the swimmer loses consciousness.

DROWNING

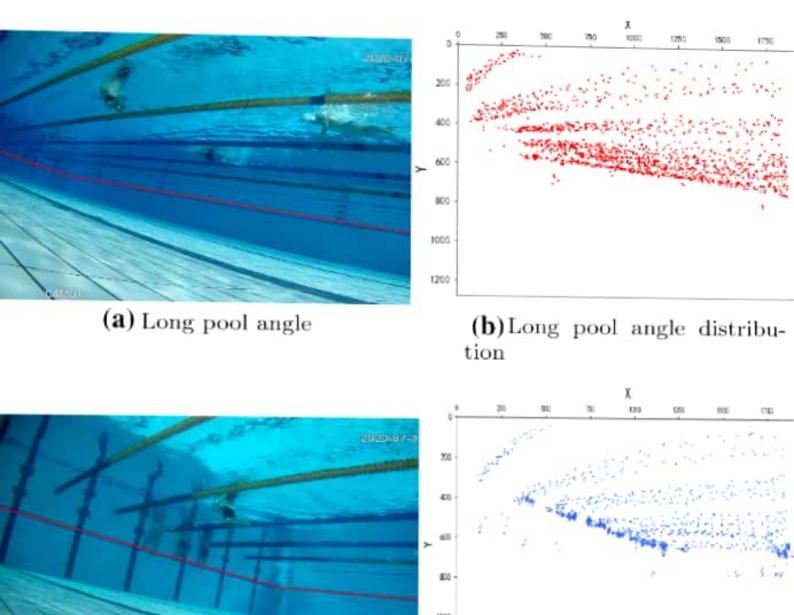
Once the swimmer loses consciousness, the body reacts and forces a breath. That causes the lungs to fill with water and without an immediate rescue, a drowning death is all but certain.





Source: Aquatics International

VALLEY NEWS - SHAWN BRALE



(c) Short pool angle

(d) Short pool angle distribu-

