

Project Design Phase-II

Customer Journey Map

Date	November 13, 2022
Team ID	PNT2022TMID33136
Project Name	Virtual Eye - Life Guard For Swimming Pools To Detect Active Drowning
Max Marks	2 Marks

1 Phases	Identify the problem	Probing an alternative answer to the problem	What we need to implement	How to implement feasibility
2 Steps	To detect the motion of swimmer by camera	monitoring the swimmer By installing camera	To detect the swimmer is drowning or not A swimmer's age and details will be shown along with the drowning status	Using deep learning algorithm Use Yolo v3 to detect the person is drowning or not Open CV age detection algorithm with deep learning is used.
3 Feelings	<div> <div>Easy for the lifeguard to save swimmer's life</div> <div>Lower depth</div> </div> <div> <div>Difficult to save swimmer's life all time</div> </div>	<div> <div>Saving life of a swimmer</div> <div>Can find a person is drowning or not</div> <div>Swimmer's details also will be shown along with drowning status</div> </div> <div> <div>Proves Lifeguard should be available to save</div> </div>	<div> <div>Lifeguard should be alert</div> <div>Should save the swimmer's life immediately</div> <div>Implementation of camera to monitor the swimmer</div> </div> <div> <div>Requires an unlimited or continuous internet connection</div> </div>	<div> <div>Implement the camera</div> <div>Need proper maintenance</div> <div>Access internet should be available</div> </div> <div> <div>They need maintenance to keep them running</div> <div>The high cost of camera</div> <div>Need to monitor of swimmer life</div> </div>
4 Pain points	<div>Not to network with the internet and be detected easily</div> <div>Possibility of hacking or security threats</div>	<div>Some times difficult to find drowning person</div> <div>It's because 3 or more drowning happens</div> <div>There is a chance of more life</div>	<div>Can reduce drowning accident</div> <div>communication between lifeguard and swimmer</div> <div>Lifeguard should be alert all the time</div>	<div>Proper installation of camera</div> <div>Hard to detect if there is network issue</div> <div>Need to detect if 2 or more people is drowning</div>
5 Opportunities	<div>A swimmer's age details will be shown to Lifeguard</div> <div>So Lifeguard can save the child first when 2 or more people is drowning</div>	<div>It provides information Of a swimmer</div> <div>For the lifeguard to know the children first</div> <div>It is useful to case of 2 more drowning happens</div>	<div>High quality of camera is needed</div> <div>Save the swimmer by age details</div> <div>Lifeguard know whom need to save first if there is 2 drowning is happened</div>	<div>High quality camera is needed</div> <div>It reduces the death rate</div> <div>It allows lifeguard to get age details of a swimmer</div>