

Project Design Phase-II

Customer Journey Map

Date	1 November 2022
Team ID	PNT2022TMID51524
Project Name	Virtual eye – lifeguard for swimming pools for active drowning
Maximum Marks	2 Mark

1 Phases				
High-level steps your user needs to accomplish from start to finish	to detect the problem	Finding an appropriate sensor to the problem	what we need to implement	How to implement creatively
2 Steps				
Detailed actions your user has to perform	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				
What your user might be thinking and feeling at the moment	<div>Easy for the lifeguard to save swimmer's life</div> <div>Low death</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>Lifeguard should be alert</div> <div>Should save the swimmer life immediately</div> <div>Implementation of camera to monitor the swimmer</div>	<div>Implement the camera</div> <div>Need proper maintenance</div> <div>Always lifeguard should be available</div>
	<div>Difficult to save swimmer's life all time</div>	<div>Always lifeguard should be available in pool</div>	<div>It requires an unlimited or continuous internet connection</div>	<div>They need maintenance to keep them running</div> <div>The high cost of cameras</div> <div>Should be aware of sensor life</div>
4 Pain points				
Problems your user runs into	<div>Due to network issues, the alarm message will be delivered slowly</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 losing 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>Hard to detect if 3 or more person drowning</div>
5 Opportunities				
Potential improvements or enhancements to the experience	<div>A swimmer's age details will be shown to Lifeguard</div> <div>So Lifeguard can save the child first when 3 or more people is drowning</div>	<div>It provides information of a swimmer</div> <div>So the lifeguard can save the children first</div> <div>It is notified in case of 3 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 their is 2 drowning is happend</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>

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