

# Project Design Phase-II

## Customer Journey Map

Date	1 November 2022
Team ID	PNT2022TMID14173
Project Name	Virtual eye – lifeguard for swimming pools for active drowning
Maximum Marks	2 Mark

<b>1 Phases</b> High level steps your user needs to accomplish from start to finish	To detect the problem	Finding an appropriate answer to the problem	what we need to implement	How to implement creatively
<b>2 Steps</b> 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.
<b>3 Feelings</b> What your user might be thinking and feeling at the moment	<div> <div> Easy for the lifeguard to save swimmer's life </div> <div> Low death </div> </div> <div> <div> Difficult to save swimmer's life all time </div> </div>	<div> <div> Saving life of a swimmer Can find a person is drowning or not Swimmer's details also will be shown along with drowning status </div> <div> Always Lifeguard should be available on pool </div> </div>	<div> <div> Lifeguard should alert but not immediately Should save the swimmer life immediately Implementation of camera to monitor the swimmer </div> <div> It requires an unlimited or continuous internet connection </div> </div>	<div> <div> Implement the camera Need proper maintenance Always lifeguard should be available </div> <div> They need maintenance to keep them running The high cost of cameras Should be aware of person's life </div> </div>
<b>4 Pain points</b> Problems your user runs into	<div> <div> Due to network issues, the alarm message will be delivered slowly </div> <div> Possibility of hacking or security threats </div> </div>	<div> <div> Some times it's difficult to find drowning person It's because 3 or more drowning happens There is a chance of losing life </div> </div>	<div> <div> Can reduce drowning accident Communication between lifeguard and swimmer Lifeguard should be alert all the time </div> </div>	<div> <div> Proper installation of camera Hard to detect if there is network issue Hard to detect if 3 or more person drowning </div> </div>
<b>5 Opportunities</b> Potential improvements or enhancements to the experience	<div> <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>	<div> <div> It provides information of a swimmer So the lifeguard can save the children first It is suitable in case of 3 more drowning happens </div> </div>	<div> <div> High quality of camera is needed Save the swimmer by age details Lifeguard know whom need to save first if there is 2 drowning is happen </div> </div>	<div> <div> High quality camera is needed It reduces the death rate It allows lifeguard to get age details of a swimmer </div> </div>

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