

Project Design Phase-II

Customer Journey Map

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| Date | 29 October 2022 |
| Team ID | PNT2022TMID49453 |
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| Project Name | Virtual eye – lifeguard for swimming pools for active drowning |
| Maximum Marks | 2 Mark |

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| <div>1 Phases</div> <div>High level steps your user needs to accomplish from start to finish</div> | <div>To detect the problem</div> | <div>Finding an appropriate answer to the problem</div> | <div>What we need to implement</div> | <div>How we implement creatively</div> |
| <div>2 Steps</div> <div>Detailed actions your user has to perform</div> | <div>To detect the motion of Swimmer by camera</div> | <div>monitoring the swimmer</div> <div>By installing camera</div> | <div>To detect the swimmer is drowning or not</div> <div>A swimmer's age and details will be shown along with the drowning status</div> | <div>Using deep learning algorithm</div> <div>Use the Yolo v3 to detect the person is drowning or not</div> <div>Open CV age detection algorithm with deep learning is used.</div> |
| <div>3 Feelings</div> <div>What your user might be thinking and feeling at the moment</div> | <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>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>Always Lifeguard should be available in pool</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>It requires an unlimited or continuous internet connection.</div> | <div>Implement the camera</div> <div>Need proper maintenance</div> <div>Always Lifeguard should be available</div> <div>They need maintenance to keep them running.</div> <div>The high cost of cameras</div> <div>Should be aware of swimmer's life</div> |
| <div>4 Pain points</div> <div>Problems your user runs into</div> | <div>Due to network issues the alarm message will be delivered late</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> |
| <div>5 Opportunities</div> <div>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>It provides information Of a swimmer</div> <div>So the Lifeguard can save the children first</div> <div>It is valuable 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 happen</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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