

## Project Design Phase – II

### Customer Journey Map

Date	03 <sup>rd</sup> October 2022
Team ID	PNT2022TMID11425
Project Name	Virtual Eye – Life Guard for Swimming Pools to Detect Active Drowning
Maximum marks	4 Marks

1 Phases <small>High level steps your user needs to accomplish from start to finish</small>	To detect the problem	Finding an appropriate answer to the problem	What we need to implement	How to implement creatively
2 Steps <small>Detailed actions your user has to perform</small>	<div>To detect the pulse rate from pulse rate sensor</div> <div>To detect the pulse rate of person using sensor</div> <div>To find over pulse rate of swimmer</div>	<div>To find drowning person</div> <div>By pulse rate</div> <div>By sensor</div>	<div>Pulse rate detection</div>	<div>To detect pulse rate of swimmer</div> <div>Using deep learning algorithm</div> <div>To detect pulse rate in digital world</div>
3 Feelings <small>What your user might be thinking and feeling at the moment</small>	<div>Easy for the lifeguard to save people life</div> <div>Low death</div> <div>Earlier prediction can be possible</div> <div>It is difficult to know if the sensor are not working unexpectedly</div>	<div>Earlier prediction to save life of a swimmer</div> <div>Lifeguard can save most of the life</div> <div>Saving life of every individual</div> <div>Life can be saved because of earlier predict</div>	<div>The model helps to predict about pulse rate of swimmer</div> <div>Life guard should be ready and alert all time is difficult task</div> <div>It requires an unlimited or continuous internet connection</div> <div>Sometimes sensor may fail to work</div>	<div>Implement the good sensor</div> <div>Real time pulse rate monitoring</div> <div>Continuous monitoring</div> <div>They need maintenance for proper functioning</div> <div>Always lifeguard should be available</div> <div>Proper prediction is needed</div>
4 Pain points <small>Problems your user runs into</small>	<div>Due to network issues the alarm message will be delivered later</div> <div>If the program is not properly inserted in the device then the device may not be to be worked</div>	<div>Sometimes can't find correct drowning person</div> <div>It is because of 3 or more number of drowning happens</div> <div>There is a chance of losing pulse rate of swimmer</div>	<div>Lifeguard should know little about normal pulse rate</div> <div>Communication between lifeguard and swimmer</div> <div>It can reduce the drowning accident</div>	<div>Cannot save everyone life</div> <div>No measures are taken due to external cases</div> <div>Lifeguard cannot save life of swimmer if a sensor takes more time to sense</div>
5 Opportunities <small>Potential improvements or enhancements to the experience</small>	<div>Pulse rate is detected automatically</div> <div>Pulse rate can be detected using the deep learning</div>	<div>It provides information quickly and accurately</div> <div>It can be used to monitor pulse rate of swimmer to detect drowning</div> <div>Becomes handy to save swimmer life earlier</div>	<div>High quality of sensor is needed</div> <div>Saves more people life rate</div> <div>Makes lower death</div>	<div>Accurate prediction is needed</div> <div>It reduces the swimmer death</div> <div>Saves lot of swimmer life</div>