

Project Design Phase – II

Customer Journey Map

Date	27 October 2022
Team ID	PNT2022TMID40981
Project Name	VirtualEye – Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	2 Marks

1 Phases	To detect the problem	Find an appropriate answer to the problem	What we need to implement	How to implement creatively
2 Steps	<div>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>It detect pulse rate in digital watch</div>
3 Feelings	<div>Easy for the Life Guard to save people life</div> <div>Low Death</div> <div>Earlier prediction can be possible</div> <div>It's difficult to know if the sensors 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 prediction</div>	<div>Should be alert all time</div> <div>The model helps to predict about Pulse rate of swimmer</div> <div>Lifeguard should be ready and alert all time is a 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 type of sensors</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	<div>Due to network issues the alarm message will be delivered lately</div> <div>If the program is not properly inserted in the device may not to be work</div>	<div>Some times can't find correct drowning person</div> <div>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>Can't save everyone life</div> <div>No measures are taken due to some external cases</div> <div>Lifeguard can't life of swimmer if a sensor takes more time to sense</div>
5 Opportunities	<div>Pulse rate is detected automatically</div> <div>Pulse rate can detected using the deep learning algorithm</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 the people in high rate</div> <div>Makes low death rate</div>	<div>Accurate prediction is needed</div> <div>It reduces the swimmer death</div> <div>Saves lot of swimmer life</div>