Project Design Phase-I Solution Architecture

Date	18 October 2022
Project Name	Virtual Eye - Life Guard for
	Swimming Pools to Detect Active
	Drowning
Maximum Marks	4 Marks

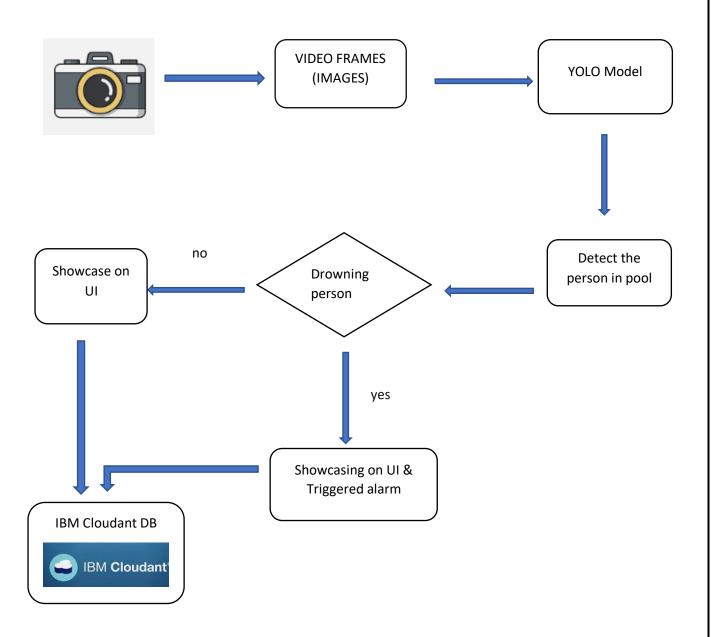
Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that
bridges the gap between business problems and technology solutions. Its goals
are to:

\Box F	Find the best tech solution to solve existing business problems.
	Describe the structure, characteristics, behaviour, and other aspects are to project stakeholders.
	Define features, development phases, and solution requirements.
\Box F managed and	Provide specifications according to which the solution is defined, d delivered.

- We can design an underwater pool safety system that lowers the chance of drowning by analysing body movement patterns and integrating cameras with artificial intelligence (AI) systems..
- Such systems are often created by mounting more than 16 cameras underwater and on the ceiling, then reviewing the video streams to look for any irregularities.
- However, as a POC, we employ a single camera that transmits underwater video while analysing swimmer positioning to determine the likelihood of drowning; if it is higher, an alarm will be created to draw lifeguards' attention.

Solution Architecture Diagram:



Team Leader – Muthuaruna C

Team Members:

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