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| S.No | PARAMETER | DESCRIPTION |
| 1 | Problem Statement (Problem to be solved) | Swimming pools can be dangerous as well as places for enjoyment and healthful activity.  Despite the presence of a lifeguard observer,  Swimmers could still experience difficulties while submerged or in areas of the pool that are hidden from the lifeguard's line of sight. |
| 2 | Idea / Solution description | Swimming pools can be dangerous as well as places for enjoyment and healthful activity.  Despite the presence of a lifeguard observer,  Swimmers could still experience difficulties while submerged or in areas of the pool that are hidden from the lifeguard's line of sight. |
| 3 | Novelty / Uniqueness | In the event that three or more accidents occur at once, the swimmer will be able to save the youngsters first thanks to the software's ability to uniquely determine the swimmer's age and drowning status. To accurately determine if someone is drowning or not, we employ the YOLO v3 Algorithm. |
| 4 | Social Impact / Customer Satisfaction | Globally, drowning has a higher mortality rate and ranks third among all sudden deaths, particularly among children under the age of six. Our drowning detection system will have an effect on society in order to resolve this dilemma. |
| 5 | Business Model (Revenue Model) | We can describe the software-based strategy for earning a good living. It is quite helpful for company owners, swimmers, and lifeguards.  Our software solution is appealing to end users because of its wealth of features. |
| 6 | Scalability of the Solution | The business driver who oversees the pools can use our software solution. We gather and keep the data on the IBM cloud server. The swimmers' security will be ensured. |

**Project Design Phase-I**

**Proposed Solution**

**VirtualEye - Life Guard For Swimming Pools To Detect Active**

**Drowning**