**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID54220 |
| Project Name | Virtual Eye- Lifeguard for swimming pools to detect active drowning |
| Maximum Marks | 4 Marks |

**Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

Rescue person

Person in pool

If person is drowning

Actions

Algorithm: Detect drowning

Process Video

Camera

If person is not drowning

Do nothing

**User Stories**

Use the below template to list all the user stories for the product.

| **User Type** | **Functional Requirement (Epic)** | **User Story Number** | **User Story / Task** | **Acceptance criteria** | **Priority** | **Release** |
| --- | --- | --- | --- | --- | --- | --- |
| Customer (Pool Owner) | Installation | USN-1 | As a user, I can install cameras and setup configuration | I can install cameras | High | Sprint-1 |
|  | Detecting the drowning | USN-2 | As a user, I can monitor the drowning of swimmers | Camera surveillance | High | Sprint-1 |
|  | Alert the guard | USN-3 | As a user, I can alert the lifeguard if emergency | I can setup the alarm | high | Sprint-2 |
| Customer(Lifeguard) | Rescue People | USN-4 | As a user, I can swim and help people out there in danger | Save drowning people | Medium | Sprint-2 |
| Customer(Swimmer) | Safety | USN-5 | As a user , I can swim in the pool with the safety of drowning detection system | Swim safely | High | Sprint-2 |
| Customer Care Executive | Contact | USN-6 | User technical issue and help them to get resolved | Contact people with any issues | High | Sprint -3 |
| Administrator | Database | USN-7 | Database management, server managament | Access the data and process it | High | Sprint -4 |