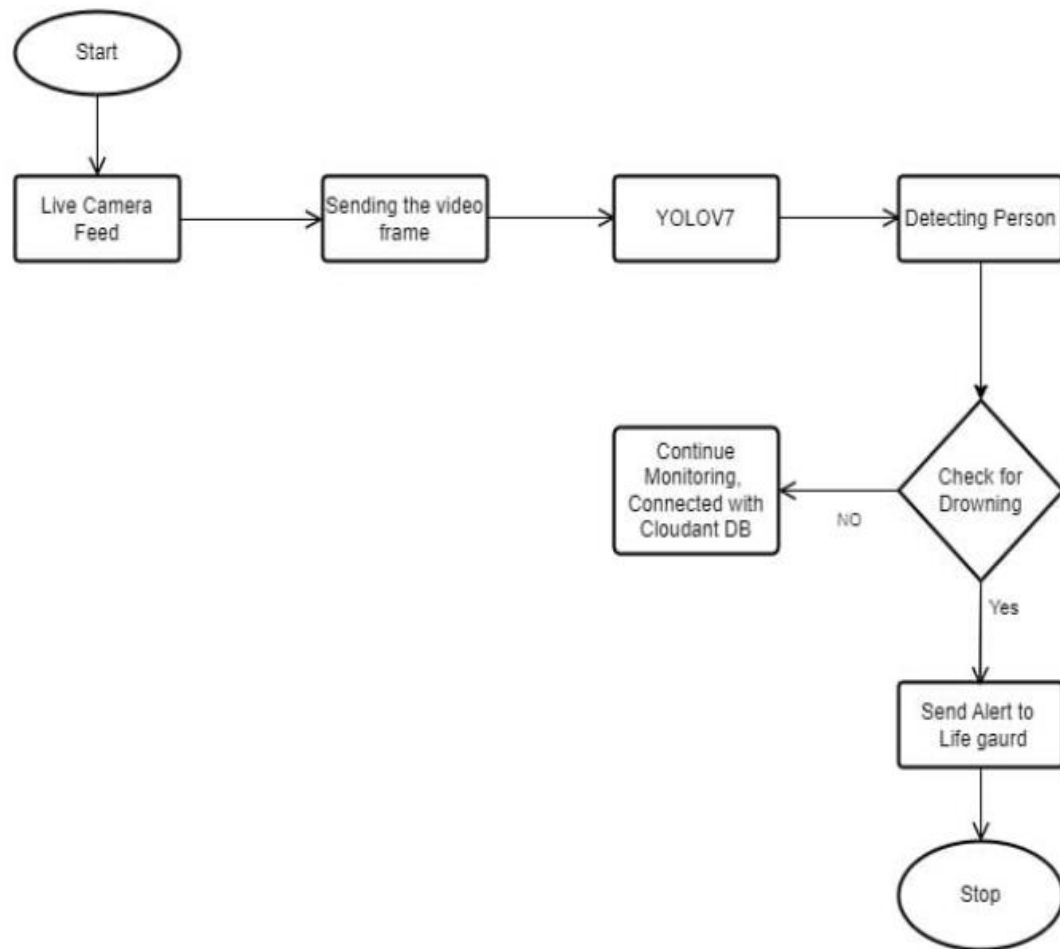


**Project Design Phase-II Data Flow
Diagram & User Stories**

| | |
|---------------|---|
| Date | 03 October 2022 |
| Team ID | PNT2022TMID06492 |
| Project Name | VirtualEye - 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.



User Stories

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|-----------------------|--------------------------------|-------------------|---|--|----------|----------|
| Customer (Pool owner) | Installation | USN-1 | As a pool owner, I can install the cameras and set up the drowning detection system | I can connect the cameras to the cloud-hosted software | High | Sprint-1 |
| User | Register and Login | USN-2 | As a user, register an username and password on website. | Registered persons only allow on a swimming pool | Medium | Sprint-1 |
| Developers | Training and Testing | USN-3 | We implement on a code to train and test the model. | Testing will be done. | High | Sprint-2 |
| Detection (Camera) | Detecting the drowning persons | USN-4 | As a user, I can find the drowning persons by using the drowning detection system. | I would receive an alert if a person is drowning. | High | Sprint-3 |
| | Notify the lifeguard | USN-5 | As a user, I can notify the lifeguard when the system detects a drowning person | I can set up an alarm that would notify the lifeguard | High | Sprint-3 |
| Customer (Lifeguard) | Rescue people | USN-6 | As a user, I can rescue the drowning persons from the pool | I can save the drowning person | High | Sprint-3 |

| | | | | | | |
|-------------------------|-----------|-------|--|---|--------|----------|
| Customer (Swimmers) | Safety | USN-7 | As a user, I can swim without the fear of drowning | I can swim safely with the help of the system and the lifeguard | Medium | Sprint-3 |
| Customer Care Executive | Contact | USN-8 | resolve technical issues | I can contact the customer care executive to resolve any issues | Medium | Sprint-4 |
| Adminitrator | Dashboard | USN-9 | Management of the drowning detection system and database management. | I can access the system's logs and any other data instantly | High | Sprint-4 |