**Fish Watch**

* **Scope**
  + Fish Watch service offered by Livestock Insights Incorporated. This system aims to assist fish farmers in monitoring their fish farms, collecting essential data, and optimizing their operations.
* **Components of System**
  + **Fish Farms**: These are the physical locations where fish are raised. Each farm may have multiple enclosures.
  + **Enclosures**: Segments within a farm where fish are kept. Enclosures vary in size and house different fish populations.
  + **Sensors and Cameras**:
    - **Water Monitors**: Placed in each enclosure, these sensors capture water quality data (pH, temperature, salinity, oxygen levels, etc.).
    - **Underwater Cameras**: Positioned in each enclosure to monitor fish health, size, activity, and parasite detection.
    - **Fish-ual Recognition (Beta)**: Identifies individual fish for health and lifecycle monitoring.
  + **Data Collection and Processing**:
    - **Raw Data Collection**: Aggregates data from sensors and cameras.
    - **Fish Health Dashboard**: Customizable dashboards for farmers to visualize collected information.
    - **Alert Thresholds**: Farmers can set thresholds (e.g., pH limits) for triggering alerts.
  + **Harvest Information:**
    - **Fish Harvest Data**: Records details about fish harvested from each farm.
    - **Data Analytics and Modelling**: Uses raw data to build models identifying factors for successful harvests.
  + **Fish Species Management**:
    - **Species Information**: Tracks different fish species on each farm.