ABSTRACT

In ornamental fish farming, providing feed in the right amount and at the right time is a crucial factor that influences the health and success of the fish. Feed management is key in this process, as the availability of nutrients in terms of quality and quantity affects the growth and health of the fish. However, distributing feed according to the needs of each pond is a challenging task, especially in large farming areas.

To address this issue, we developed an ornamental fish farming system based on the Internet of Things (IoT). The purpose of this system is to dispense feed according to the schedule set by the user. The settings can be adjusted manually on the device or through an Android application, making it easy and convenient for the user. The system also has the capability to monitor the amount of feed available in the device via the application, allowing users to ensure feed availability at any time.

This system is designed to be implemented in a single device that can be used for multiple ponds and can dispense feed efficiently and evenly across all ponds. These features not only enhance the efficiency and effectiveness of ornamental fish management but also simplify the process for the user. By utilizing IoT technology, this system offers a new and practical solution to the traditional challenges of ornamental fish farming and supports successful cultivation through better feed management.

Keywords : Ornamental Fish Farming, Internet of Things, Automated Feed Management