

This project an Internet of Things (IoT) to environment conditions monitoring for aquaculture that integrates.

In this project, the authors use sensor water temperature, dissolved oxygen (DO), potential of Hydrogen (pH) and water level for node sensors. The model makes the aquaculture monitoring system more customizable, expandable and dynamic.

The user can set the ideal condition of water for his pond in any kinds of aquaculture based on its needs through the web or Android application.

In the future, the authors want to extend the device functionality, add solar panel resource to lengthen the life of battery resource, integrate with different big data architecture and develop chat bot for the interactive monitoring and controlling system.