

ABSTRACT

Mangrove crab is one of the species living in mangrove ecosystems, especially in Indonesia, which has high economic potential. To support mangrove crab farming, technology is needed that can provide real-time water quality data, thus helping managers prevent harvest failure. This research aims to develop a web-based internet of things (IoT) system to accurately monitor water conditions. This system uses a prototype methodology, which includes needs analysis, design, and evaluation. The result of this research is a web that is able to display water quality sensor values and images in real-time with the support of Firebase. This web is expected to visualize data well, facilitate managers in making decisions, and support the success of mangrove crab farming.

Keywords: Crab Farming, Internet of Things (IoT), Web, Water Clarity.