

## **ABSTRACT**

### ***Development of IoT-Based Aquarium Water Temperature Control System Prototype***

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*Goldfish and manfish are two types of freshwater ornamental fish that can be said to be quite sensitive to water temperature conditions in the process of quality formation. It is noted that goldfish require air temperature conditions between 20 to 25 degrees Celsius, while manfish require air temperature conditions between 26 to 30 degrees Celsius. Java Aquarium is an ornamental fish commodity which is said to be quite large which provides various types of ornamental fish in the South Tangerang area. The process of monitoring and increasing air temperature in these places is said to be still done manually, especially for manfish and goldfish, thus making it difficult for the keepers of this type of ornamental fish to carry out the process of monitoring and stabilizing air temperature, because they have to check it manually. directly to the place. The resulting impact is to reduce the quality of color reproduction produced by this ornamental fish. The purpose of this research is to make it easier for ornamental fish commodities such as manfish and goldfish in the process of increasing the air temperature at a certain point ideally. and remote monitoring through the website on this IoT-based system. Qualitative method is the method that researchers choose in conducting this research. The interview process is the main thing and is supported by reference studies to understand the problems at hand. The results of this study are that the temperature increase system shows at a certain point and the display process on the LCD and remote monitoring via the website on this IoT-based system has been well.*

**Keywords:** *Ornamental Fish, Temperature, Goldfish, Manfish, IoT.*

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