

PROJECT REPORT

IOT-BASED SMART AQUARIUM WITH FUZZY LOGIC MAMDANI ALGORITHM

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ABSTRACT

A monitoring system for pH and temperature of the aquarium has been designed. pH levels were measured using the PH-4502C sensor and temperature using the DS18B20 sensor. In caring for the tie, an ideal temperature and pH are needed. The ideal conditions are in the form of pH levels 7-8 and for temperatures there are at the level of 26-32 degrees Celsius. After the data is obtained, it can be continued with data processing using Fuzzy Logic Mamdani. After the data has been processed, the data will be input to Blynk for the monitoring process. This monitoring process uses the Blynk application for remote monitoring.



