

PENGENSAN pH

RBTX 2022 : INNOVATION ADVANCE CATEGORY

Group Name: Michaellian

Video Link:

Teacher's/Guardian's Name :

Participants Name

- 1.
- 2.
- 3.
- 4.

Problem Statement

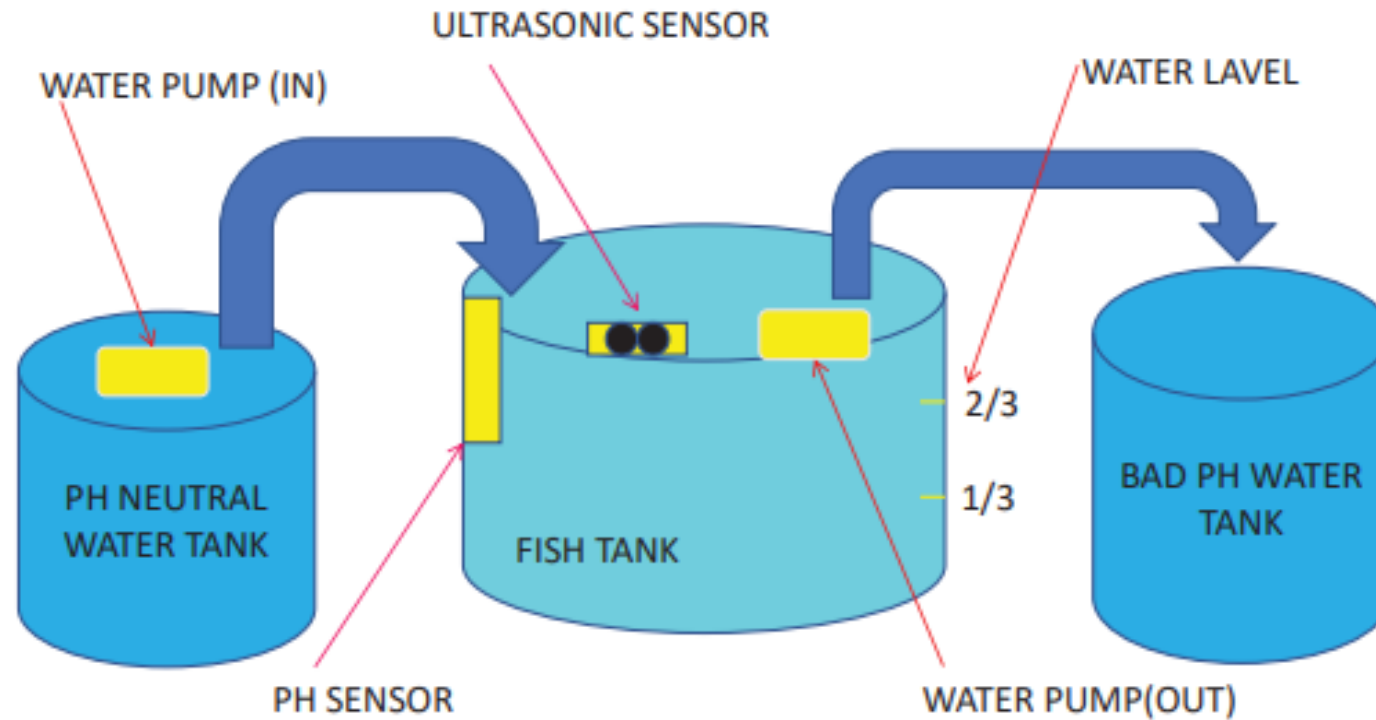
Technological advancements in the field of adult electronics are growing rapidly and are influential in the production of sophisticated tools, which are tools that work automatically and have high precision to make human work easier, economical and efficient. Automated systems in all sectors are unavoidable, so that initially manual use turns to automatic control. There is no exception to the process of raising fish that uses tools for convenience in their preservation. In the process of raising fish, the fish should be kept in mind for the pH value of the water in the pond.

During this time, the process of controlling and measuring the water pH of the tilapia fishpond was carried out manually. For example, measuring the water pH using a digital pH meter and then when the pH value is outside the tolerance limit, which is between 5.5–7.5 then it will be converted to fresh water until the desired water pH. However, the modern digital pH meter has its drawbacks, which are slow changes, which are an important issue in ensuring that the water pH is always suitable for tilapia fish farming.

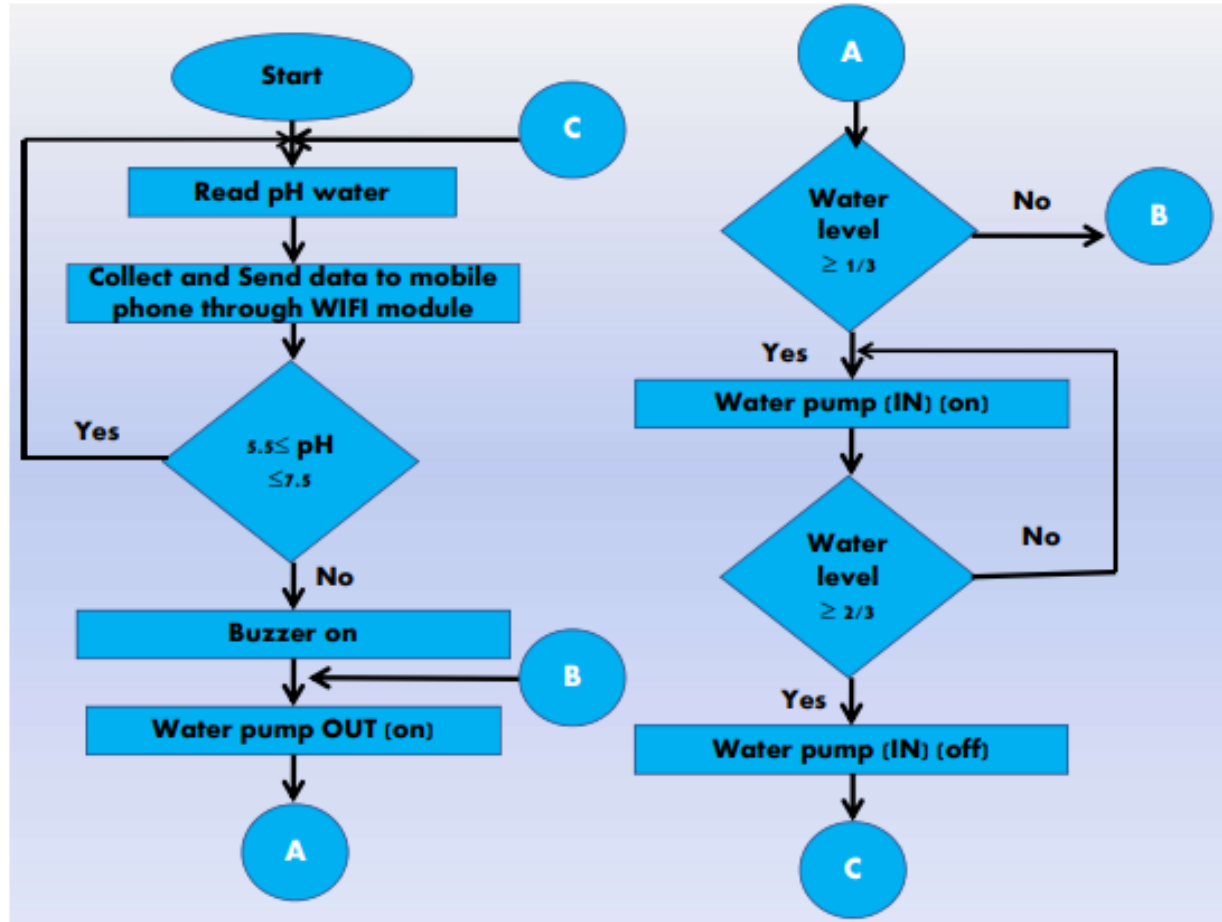
How will this project benefit the community

It is easy to detect pH value. So, owner of fish farmer can monitor the condition of fishpond. It used application Think Speak, software that connect to product through Wi-Fi module. This product also good because it can save the time for fish farmer to check pH value of the water. This product function Automatically change the water went the pH is not suitable. It will pump out water until level we decide and pump in clear water until 2/3 of pond. This product also benefit user because it has automatic fish feeder with timer. So, the owner does not worry if go outstation because it operates automatically

Project specification (with sketches)



Flowchart



Thank You

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