

# ***AUTOMATED MAINTENANCE SYSTEM IN FRESHWATER AQUASCAPE BASED ON INTERNET OF THINGS (IoT)***

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## ***ABSTRACT***

*Aquascaping is a hobby that is quite popular among young and old people. Aquascape itself is the art of arranging plants, water, rocks, coral, wood and other natural objects in glass or acrylic media. Aquascape itself is quite easy to maintain depending on the size of the aquarium. One of the most important things in Aquascape is consistency, which is quite difficult to achieve if the owner does not have much time to maintain the Aquascape. Internet of Things (IoT) technology using a microcontroller and combined with applications on mobile devices can help monitor and manage the maintenance required by Aquascape. This system is expected to facilitate monitoring and maintenance of Aquascape.*

***Keywords:*** *Microcontroller, Monitoring, Internet of Things (IoT), Android*