ABSTRACT

Indonesia is a country predicated as an agricultural country, but Indonesia has not been able to stand upright and independent in agriculture. Agricultural problems in Indonesia are very diverse. These problems will only arise when the long dry season hits, because agricultural activities still depend on natural factors. As a result, the plants planted by the farmers dry up, wither, and even die. Nowadays, there are still many farmers in Indonesia who still use conventional energy. For example, in watering their plants, many farmers still use buckets to take the water and then pour it onto the plants. This method is very tiring and time-consuming for farmers.

In the final project proposal with the title Implementation of S-Mini (Smart Irrigation Farmers) Based on Android, it functions to optimize the water used by farmers in caring for their plants. This tool also functions to monitor water levels as well as automatic plant watering media by using a smartphone to run it.

From the results of the tests that have been carried out starting from per module testing, system testing, and various various testing schemes have been carried out. This tool works well and works as it should.

Keywords: Agriculture, Water, Android, Drip Irrigation