PROTOTYPE OF AUTOMATIC IRRIGATION SYSTEM BASED ON IOT AND PLTS (CASE STUDY OF KARANGGENENG NGAWI VILLAGE)

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ABSTRACT

Water is the most important natural resource in supporting the life of all living things on earth. Water is also a vital resource in supporting economic development such as the industrial, trade, agriculture, fisheries, transportation, power generation, tourism and household sectors. The research steps describe the stages of research in the study of literature, design of tools, and preparation of reports. Tools and materials describe the hardware and software used. Water has a very important role for agriculture, especially for rice, corn and other agricultural crops. Rice plants are plants that need a lot of water, especially when growing they must always be flooded with water. In order for rice productivity to be effective in one unit area of land, sufficient water supply is needed through irrigation. Irrigation is an infrastructure to increase land productivity and increase annual harvest intensity. This study aims to provide an option to make it easier for farmers to monitor each rice field plot by using an application using the internet as a data sending device that has been read by the system.

Keywords: Irrigation System, IoT, PLTS