

# **PROTOTYPE OF AUTOMATIC RIVER DOOR CONTROL SYSTEM BASED ON INTERNET OF THINGS (IOT) WITH TELEGRAM NOTIFICATION**

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## **ABSTRACT**

*The dam is one of the important infrastructure buildings in the field of water resources and provides benefits for the local community which can reduce the criticality of water experienced during the dry season which is decreasing day by day. In addition to great benefits, dams also have the potential for great dangers experienced when facing erratic rainfall in each region that causes surface water to overflow. In an era of all-technology like this, a Prototype tool for an Internet of Things (IoT)-based Automatic Door Control System Prototype with Telegram Notifications was designed. This tool serves to divide the flow into 2 rivers, namely river A and River B. This tool is equipped with 3 ultrasonic sensors to measure the water level and 2 12V DC motors as door drivers on the dam to flow into river A and river B which equipped with a limit switch as a limiter for stopping the motor when opening the floodgate. The two sluice gates will open automatically when the water level in the dam reaches 11 cm to flow into rivers A and river B. The doors will be closed again if the ultrasonic sensor in river A and river B detects the water level at a level of 7 cm.*

**Keywords:** *Internet of Things, Telegram Bot, Ultrasonic, Blynk.*