

ABSTRACT

Flood is a routine disaster occurred in every year in various regions in Indonesia, especially Bandung. Although it is an ever-present disaster, predicting when the flood will come is still a difficult thing to do. Because the flood always comes unpredictedly so many people especially in flood-prone areas have not prepared themselves for the flood. Because it is very necessary to install a system that provides early warning that can reach all people, especially areas prone to flooding quickly. Thus, the public can know and immediately prepare to anticipate the coming of the flood. This final project will use ultrasonic sensors mounted on sluices or riverside to measure the water level of the river mouth. The system has three warning levels for people to know the future flood hazard levels. If the water level is detected the system is potentially flooded, the system will spread the flood arrival warning via Twitter and also the difference in the water level every certain periode of time.

Keywords: Twitter, water level, ultrasonic sensor, early alert, flood, Raspberry Pi