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EARLY FLOOD DETECTION AND AVOIDANCE USING IOT

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ABSTRACT

Flooding is a natural phenomenon that, due to its adverse impact on society, has drawn global attention. It has been predicted that developing nations such as Malaysia will experience increased flooding in the coming decade. The incidents of flooding are unlikely to change, however, it can lessen the impact on our society. By introducing an early flood warning system, our project will solve the problem. The goal of this project is to provide early warnings to areas that are likely to be devastated by flooding using the Internet of Things (IoT). The system involves the installation of sensors for real-time flood monitoring and detection at the house gate, which will save individuals plenty of time to prepare for expected flood occurrence and save them from flood catastrophe. In this project, Arduino UNO will be interfaced with a sensor which is ultrasonic sensor (HC-SR04). Then, a WIFI module will be attached to Arduino UNO. This system will send alerts to the owner of the house over smart phones through an application called "RemoteXY" and the LCD will display the information whenever the system senses the rise of water level.

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