IBM NAAN MUDHALVAN

DOMAIN - INTERNET OF THINGS

DATE	26-09-2023
TEAM ID	Proj_224685_Team1
PROJECT TITLE	Flood monitoring and early warning

PROBLEM STATEMENT:

1. A flood warning system is a way of detecting and forecasting flood events so that the public can be alerted in advance and can undertake appropriate responses to minimize the impact.

2. A basic flood warning system consists of sensor circuits, communication system, controller and power system.

WARNING TO RURAL PROBLEM STATEMENT TEMPLATE:

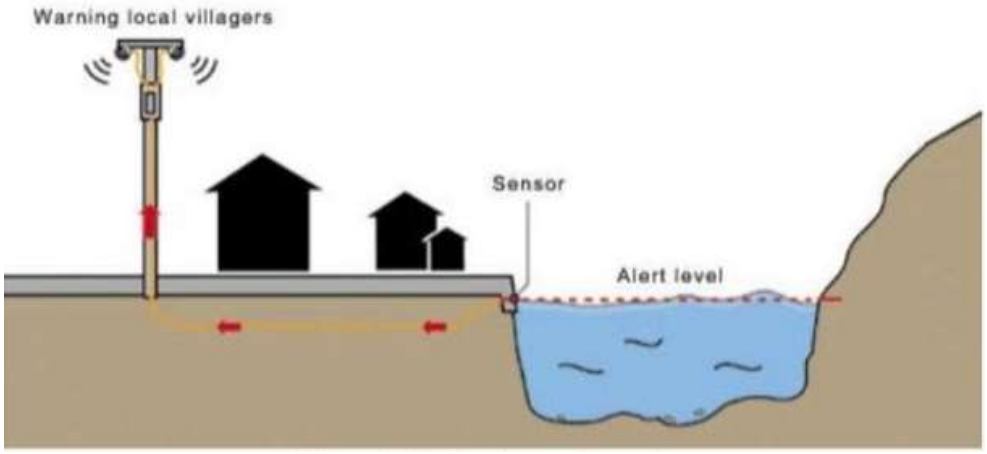
I am	**I'm trying to**	**But**	**Because**	**Which makes me feel**
Village Administrative Officer	Keep my village secure from floods	Due to heavy rain the water level of lake or river in the village becomes high	Of the rainfall, the habitations near the lake or river. Affecting people life and agricultural	The loss of human life and drowning of crops

OBJECTIVES:

The main objectives of this project are:

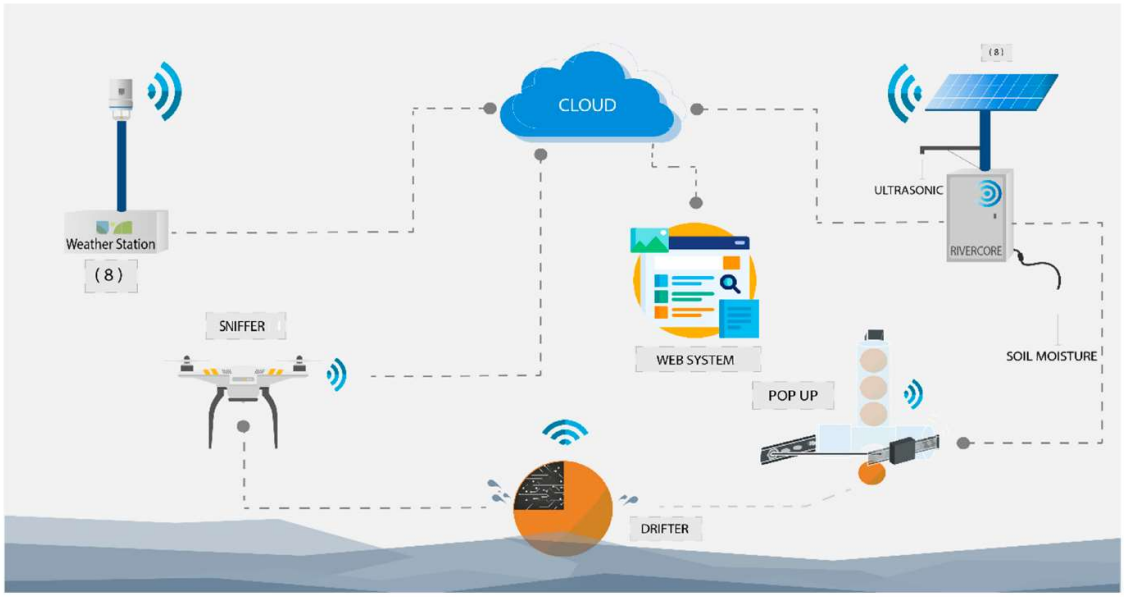
1) Gather information regarding current water level readings using Arduino ultrasonic sensor
2) Develop Flood Monitoring and Early Warning through online system
3) Evaluate and manipulate the information obtained to the Flood prediction

FLOOD EARLY WARNING SYSTEM:



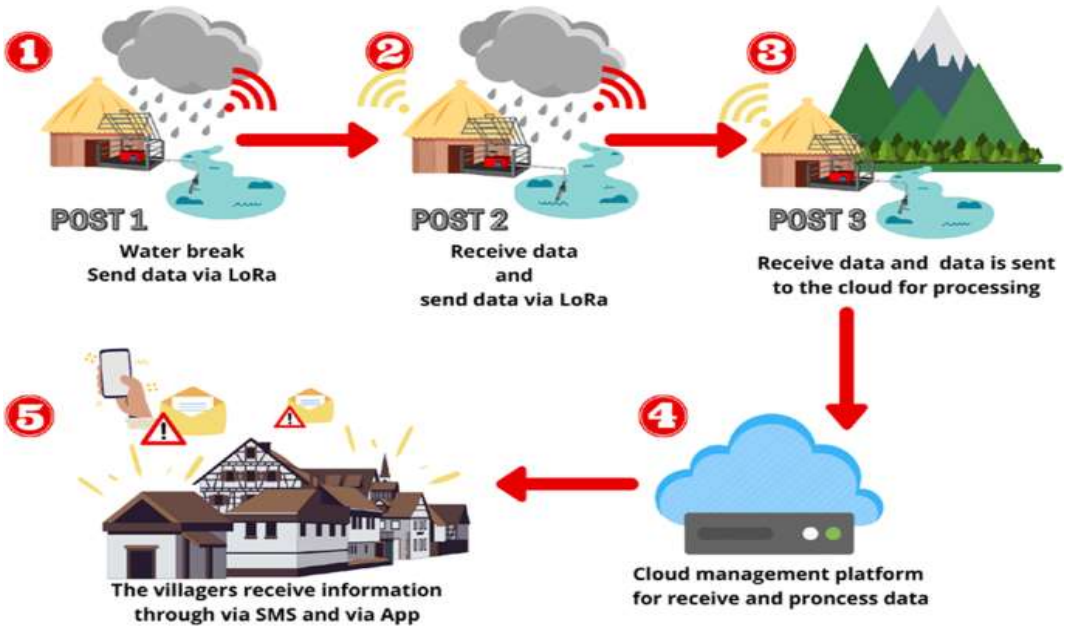
DESIGNING A IOT SENSOR NETWORK MODEL:

A system of sensors used in flash flood prediction that offers critical real time information used to provide early warning that can provide the minute needed for persons to evacuate before imminent events.



DEVELOPING THE WARNING PLATFORM:

The sensor readings of each post are displayed on the App, and alerts are sent via **Short Message Service (SMS)** and via the App



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