FLOOD MONITORING

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Objective

Flood monitoring system is to provide real-time data and early warnings to help mitigate the impact of floods which includes , Early warning system,risk assessment,real time monitoring,data collection, emergency response .

Project Objectives :

- The project involves deploying lot sensors near water bodies and flood-prone areas to monitor water levels and provide early flood warnings through a public platform.

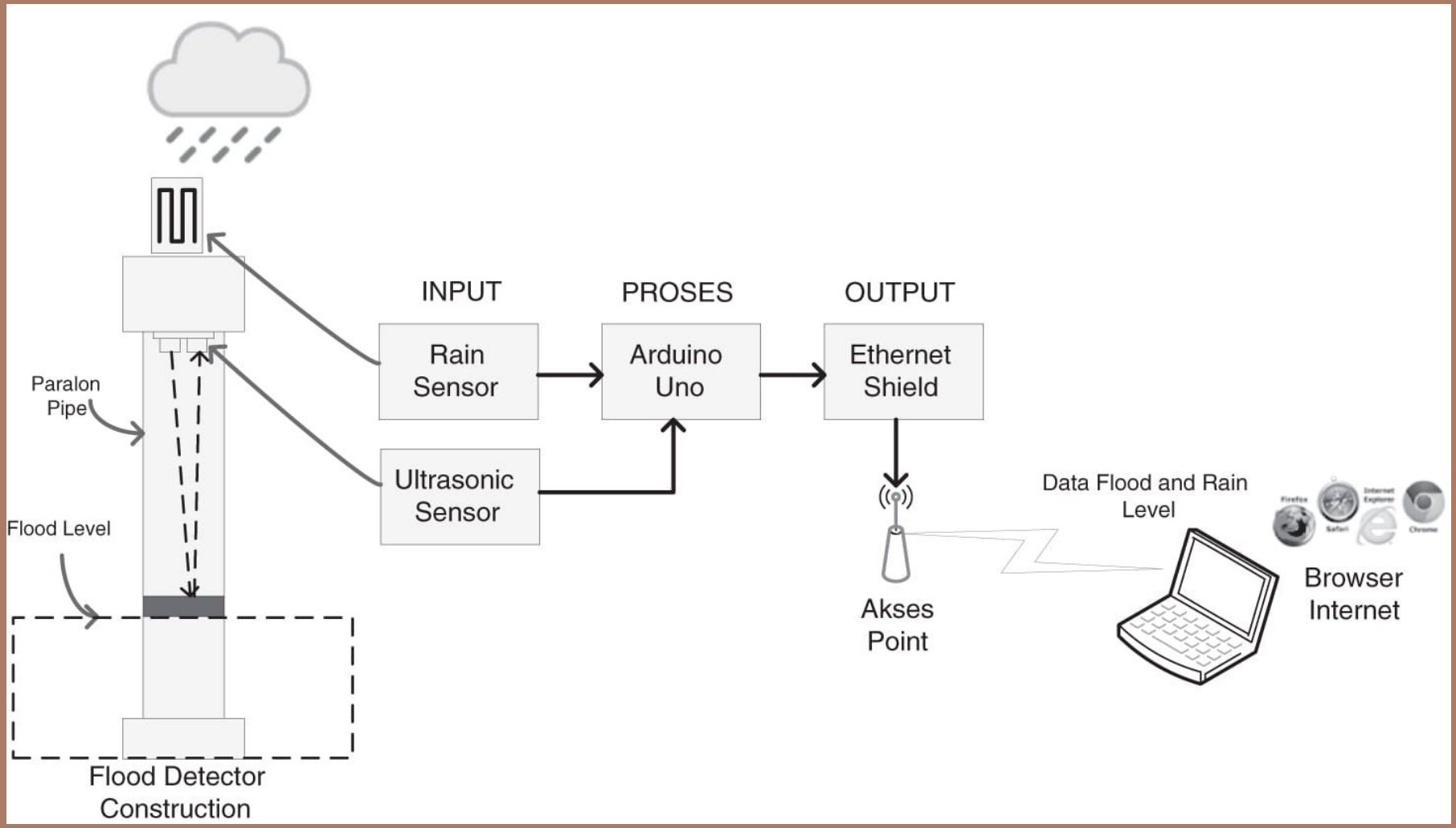
- The objective is to enhance flood preparedness and response by issuing timely warnings to both the public and emergency response teams.

- This project includes defining objectives, designing the loT sensor network, developing the warning platform, and integrating them using loT technology and Python.

IOT SENSOR NETWORK DESIGN :

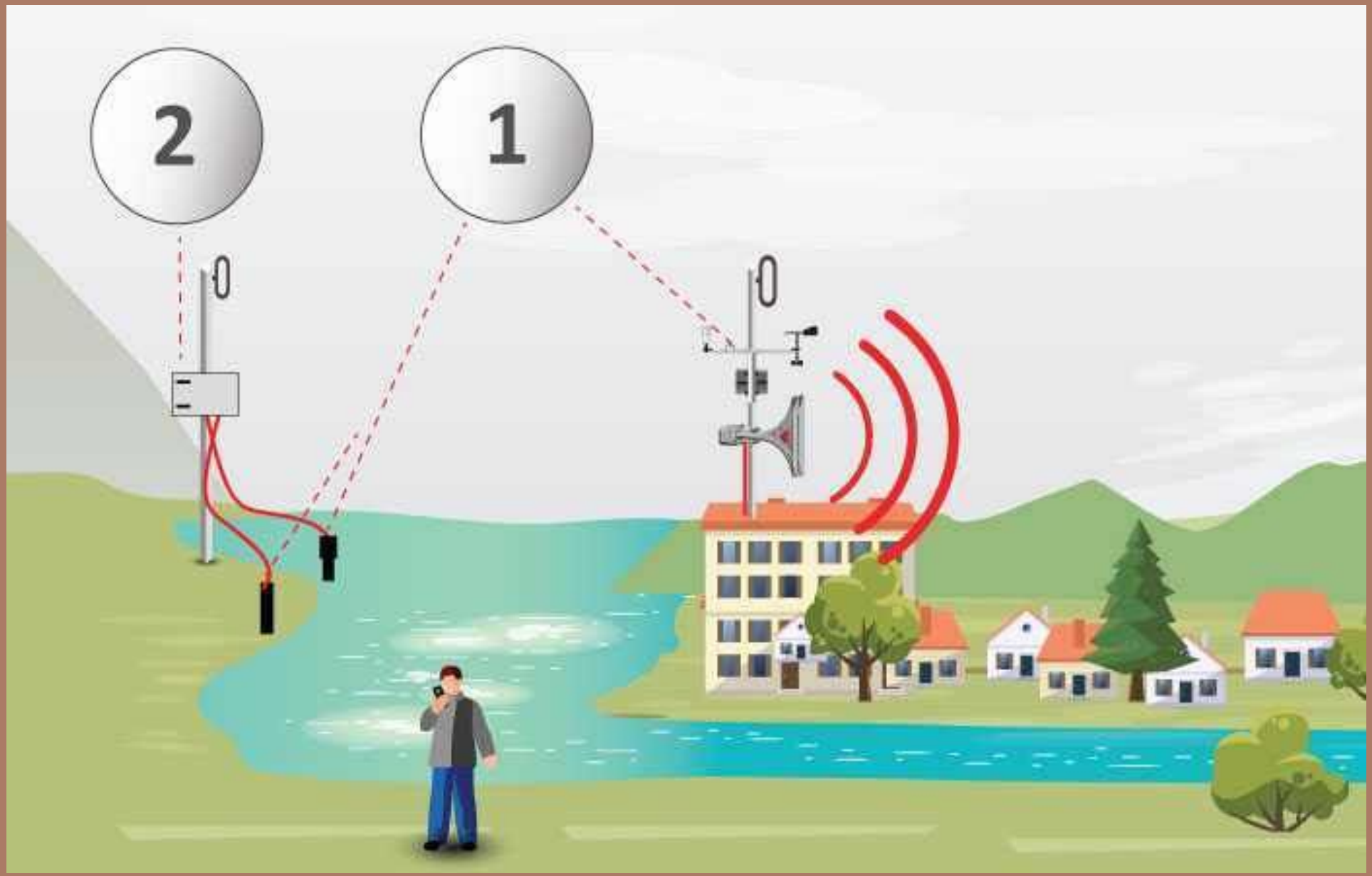
Monitoring System is developed to alert the public closest to the area when there is upcoming flood. The process is starting when ultrasonic sensor measures level of water in the river.

BLOCK DIAGRAM :



Early warning platform :

➔ Flood warning system is an early flood monitoring solution that deploys accurate and well-maintained sensing instruments, like rain gauges, water level sensors, and flow rate sensors.


2
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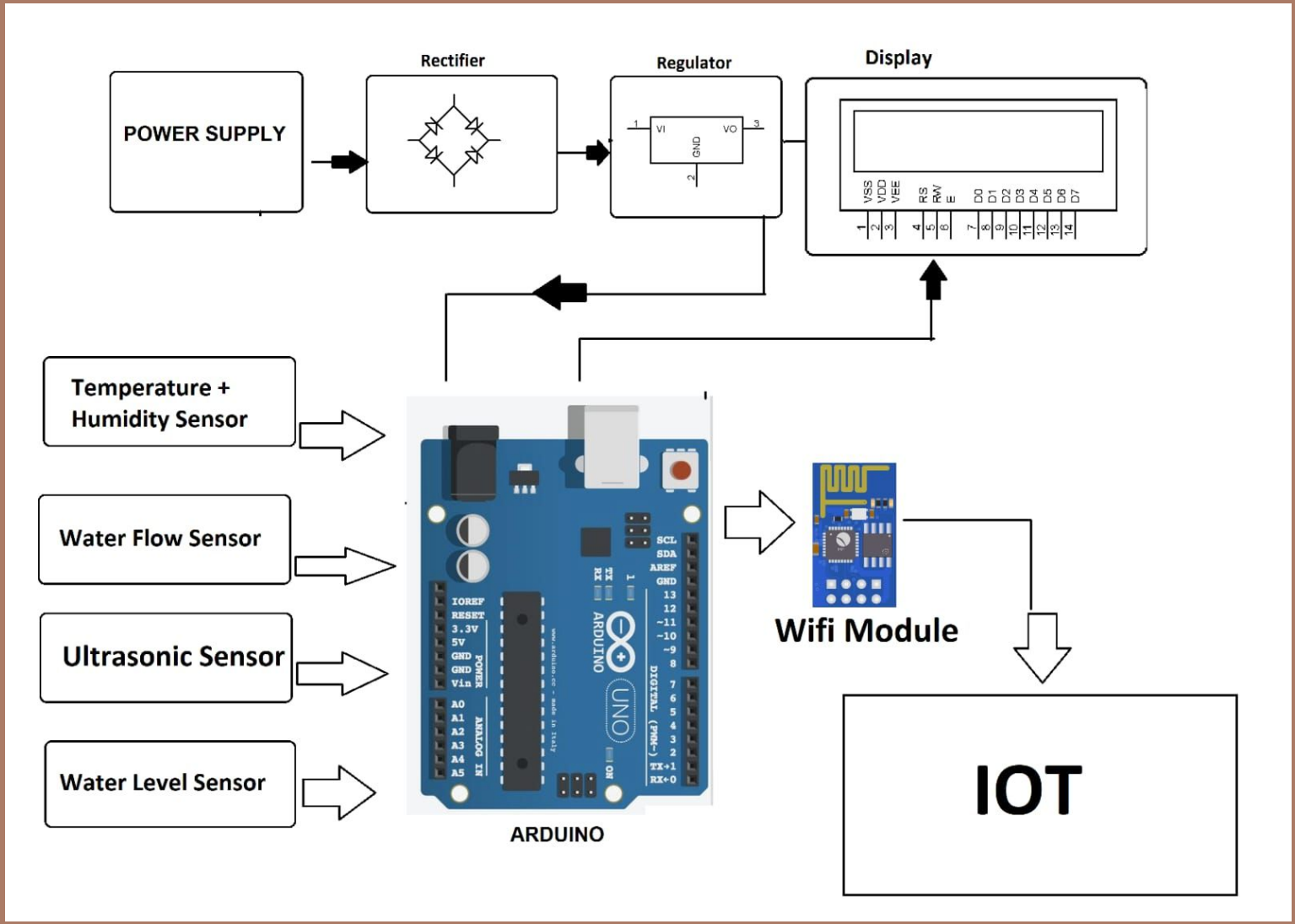
IOT Early flood detection and Avoidance :



Merits :

1.Real-time Monitoring

2.Remote Access

3.Cost-effective

4.Scalability

5.Alerts & Notifications

THANK YOU