

Flood & Cyclone Early Warning System

A web-based system for real-time alerts and centralized disaster information.

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Our Purpose

Life Safety

Give people enough time to evacuate and move to safe places.

Property Protection

To help minimize damage to infrastructure, homes, and assets by giving communities sufficient time to secure their properties and take protective measures.

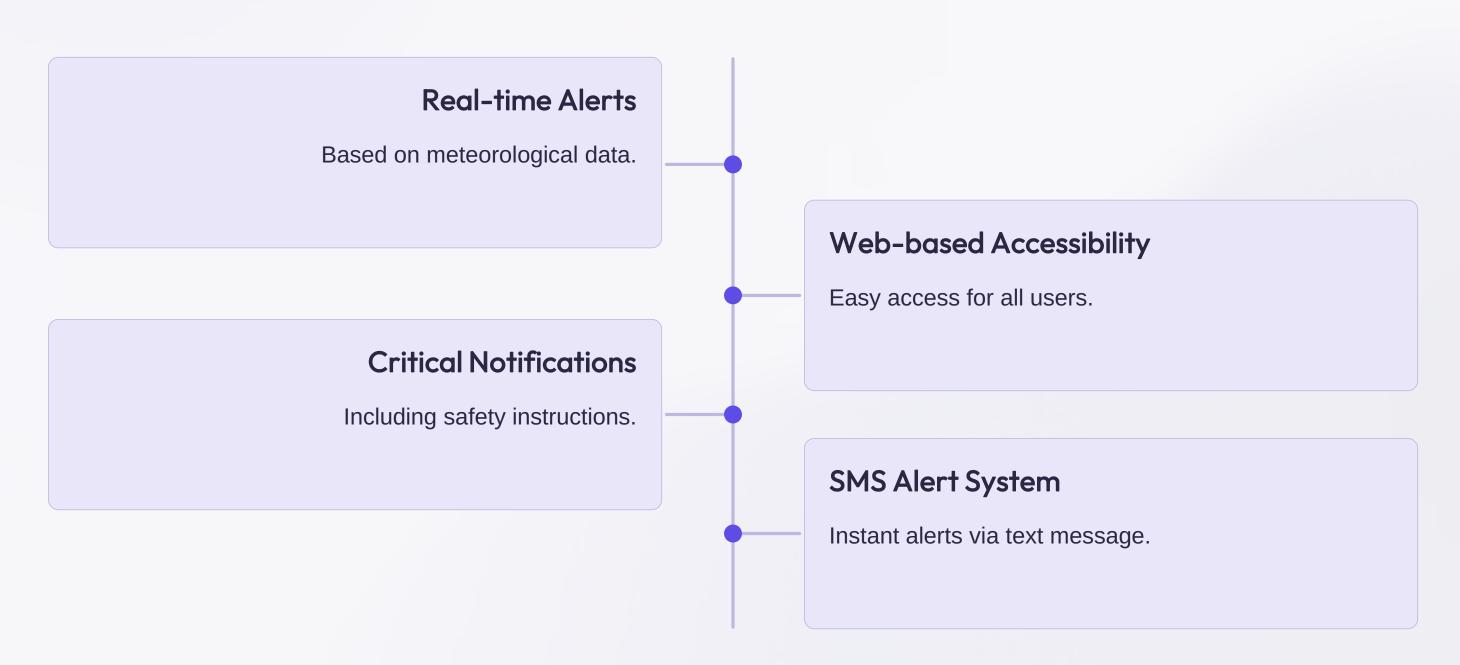
Preparedness

Help communities and authorities get ready with shelters, relief, and emergency services.

Timely Information

To deliver accurate and immediate alerts regarding impending floods and cyclones, ensuring that all stakeholders have the necessary data for swift decision-making.

Features



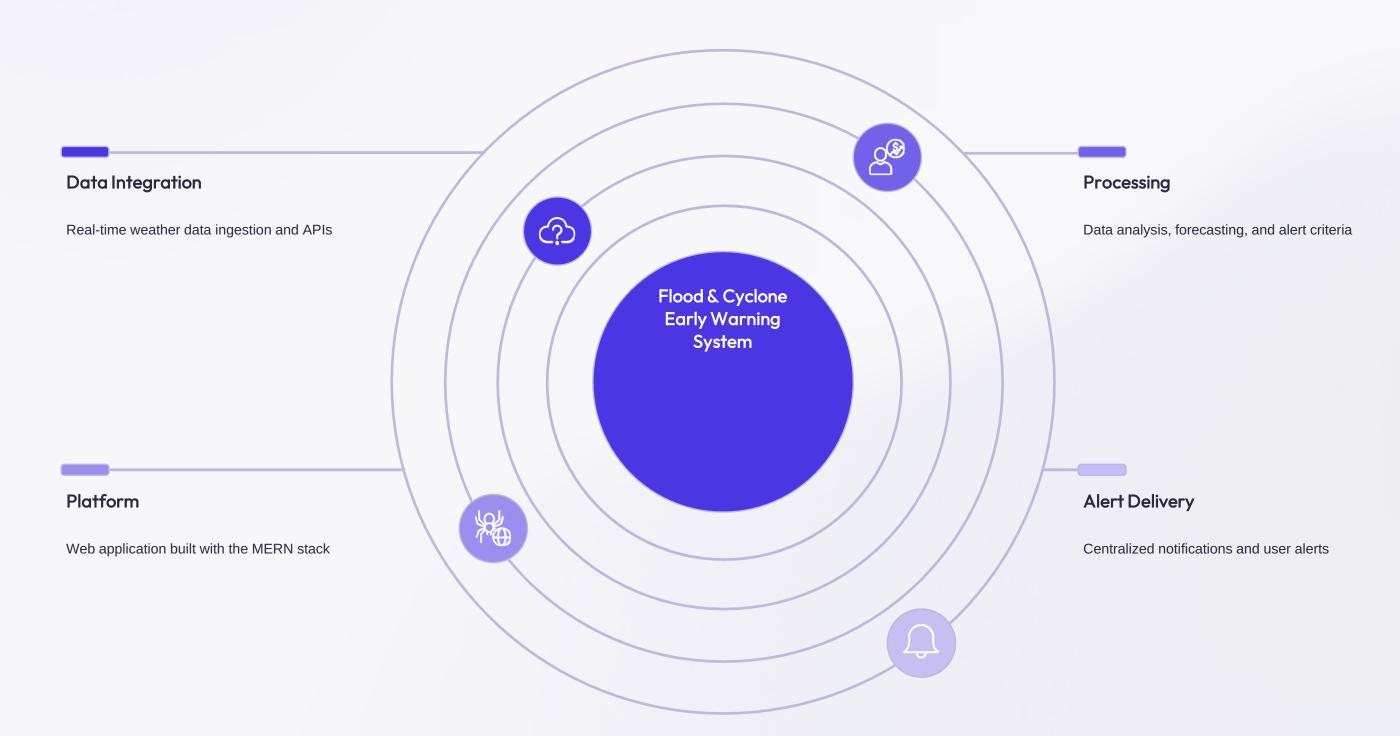


System Features: Priority

The Flood & Cyclone Early Warning System maintains real-time information on weather data (from NASA datasets), alerts, and user notifications.

High Priority: Timely and accurate alerts are critical to saving lives and preventing disaster-related damage in affected regions.

System Overview



User Roles



Citizens

Receive alerts, view weather data, subscribe to notifications, access safety guidelines.



Authorities

Monitor live data, track notification status, generate disaster reports, and access all citizen functions.



Admins

Manage locations, data sources, alert thresholds, users, and system configurations.

Operating Environment

System Architecture

- Client/Server System
- Distributed Database

Operating System

Cross-Platform (Windows / Linux / macOS)

Database

MongoDB (NoSQL, distributed)

Platform

MERN Stack (MongoDB, Express.js, React.js, Node.js)

Thank You