Monitoring Social Media for Disaster Alert and Management

Team name: Save-Earth

Members:

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Tweepy Python library is used for monitoring real-time tweets



Twitter API



Tweets are filtered by disasters related keywords and tags

(Runs on Azure VM)

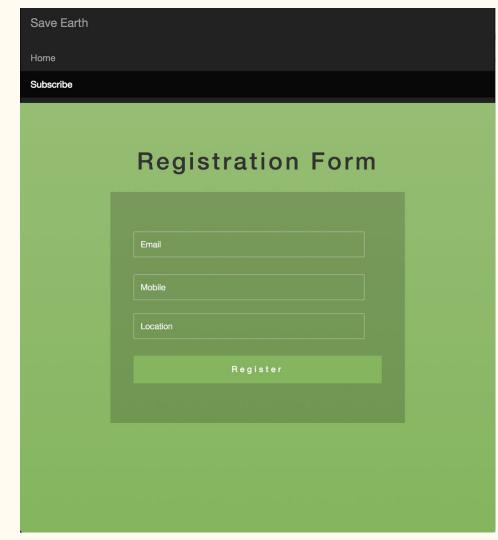
Tweets Database (Disaster, Location, Time, Severeness)

Severeness of a tweet is calculated by sentiment analysis

Website

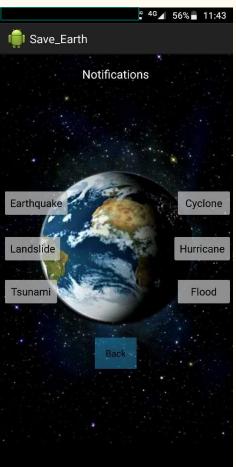
Users can subscribe to our website to **get notified by email and SMS** if disaster alert is detected in that location. SMS service will help even when internet connectivity is absent





App





Node.js Web App on Azure queries the database for disaster alert

On disaster alert, location is sent

Notification is sent to users in affected area

- Our app sends instant notification to people in disaster areas.
- Users can report a calamity in their area from the app.

Flow & Structure

Users Database (Mobile, Email, Location)



SMS and email is sent to users in affected areas

We use Twilio and SMTP Python libraries for sending SMS and email respectively

Tweets Database (Disaster, Location, Time, Severeness)



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