

The background of the slide is a photograph of a harbor filled with numerous fishing boats. The boats are mostly blue and green, with some having white or yellow accents. They are moored in rows, and their masts and rigging are visible against a sky filled with large, white and grey clouds. The water is calm, reflecting the light from the sky.

19EEZ51-MINI PROJECT

GEOFENCING BASED ALERT SYSTEM

>RECAP:

ISSUE FACED:

- The Sri Lankan Navy on [Wednesday\(20/07/22\)](#) arrested **six Indian fisherman and seized their boat for illegal fishing...**



≡ Firstpost.

Further, not all crossing of maritime boundary is intentional. There have been many instances of inadvertent straying into maritime boundary as these are imaginary lines demarcated by nations and often not clearly discernible in waters. This inadvertent straying may be caused by failure of boat's engine or sudden disturbance caused by weather conditions in the region.

International law on the Kachchatheevu issue

PROPOSITION:

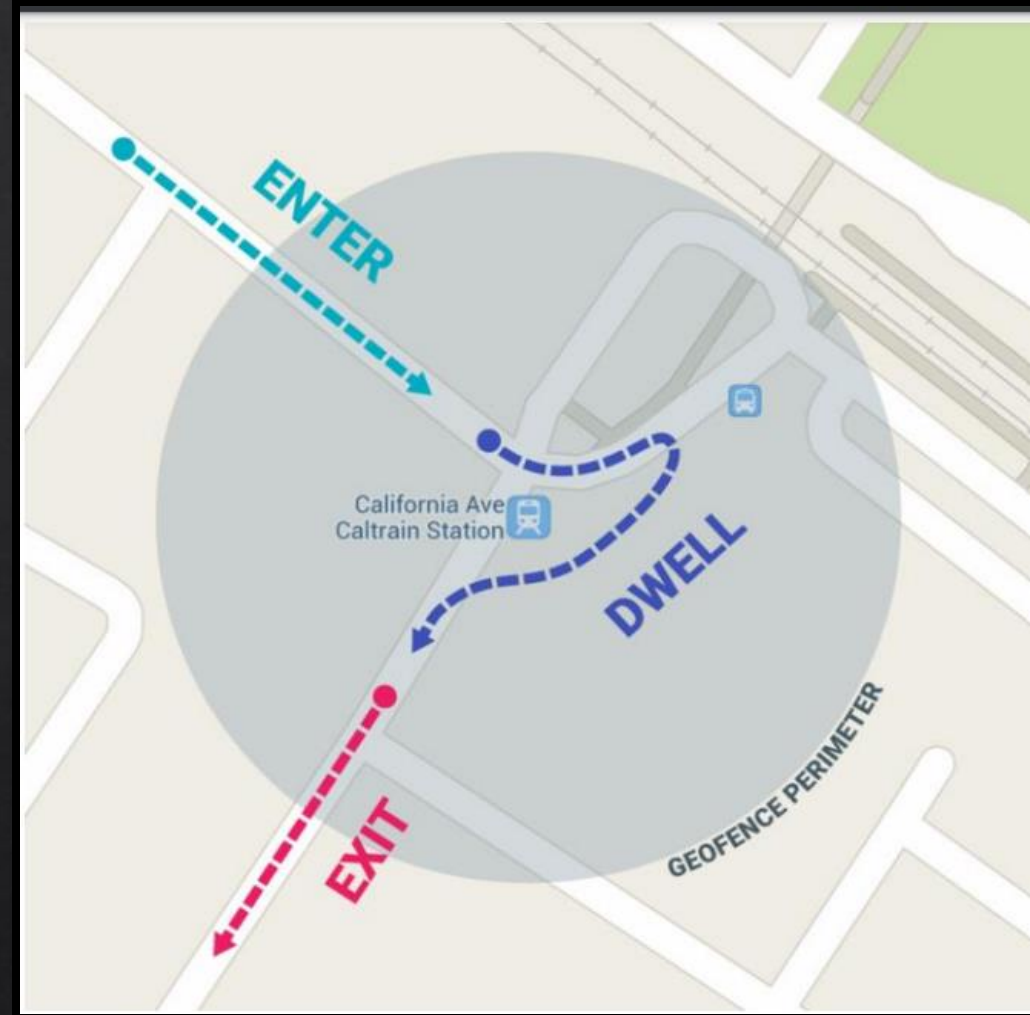
- **Introducing a system which alerts the fishermen by an alarm system , if the boat (with GPS) enters Sri Lankan area by chance**, can be a solution.



ANALYSIS OF LITERATURE

GEOFENCING :

- ◇ Geofencing is the basic idea behind the implementation of our project
- ◇ Geofencing consists of establishing a virtual perimeter around a geographical zone and then connecting mobile devices to it; an alert is emitted when one of these mobile devices crosses the perimeter
- ◇ It is directly implemented within software solutions for tracking and managing mobile assets



LOCATION BASED ALARM SYSTEM

- ❖ Location based services are essential components of many location-based applications.
- ❖ Location based alarm represent an emerging location-aware, just-in-time web services, which can propagate information of location to the right users at the right time and the right place.
- ❖ It reminds the user about the location when the user enters some predefined location of interest in the future



NEWS JOURNAL - Times of India

- ◇ **UDUPI:** The fisheries department in Udupi plans to use location determining technology to keep tabs on thousands of boats that dock at and leave Malpe and Gangolli ports.
- ◇ After successfully carrying out a pilot project with the technology, known as geofencing, on country boats, the department sent a proposal to the government asking for it to be made mandatory, a fisheries department official said.

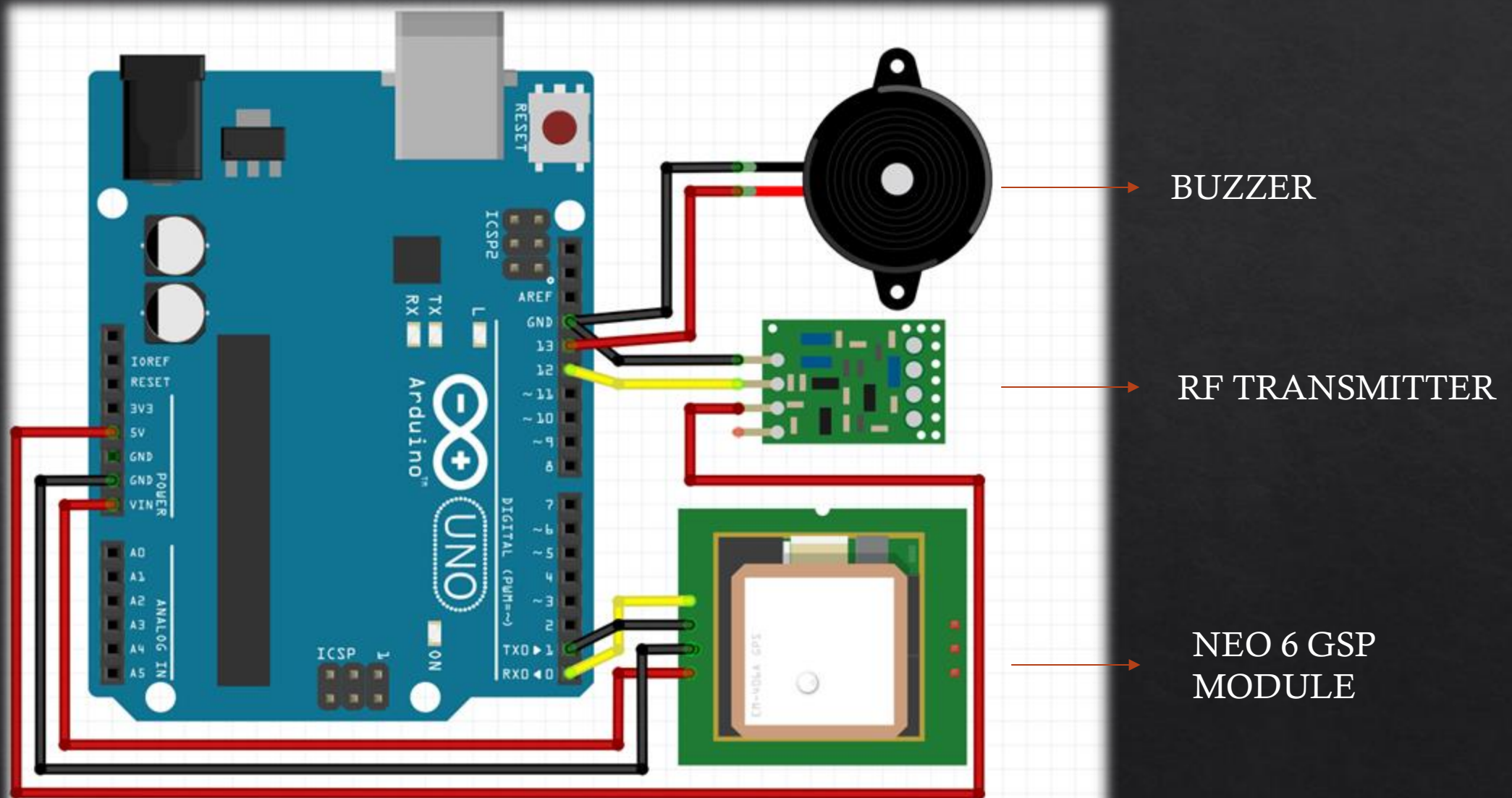
CITY

Geofencing to help fisheries deptkeep tab on boats in ports, at sea

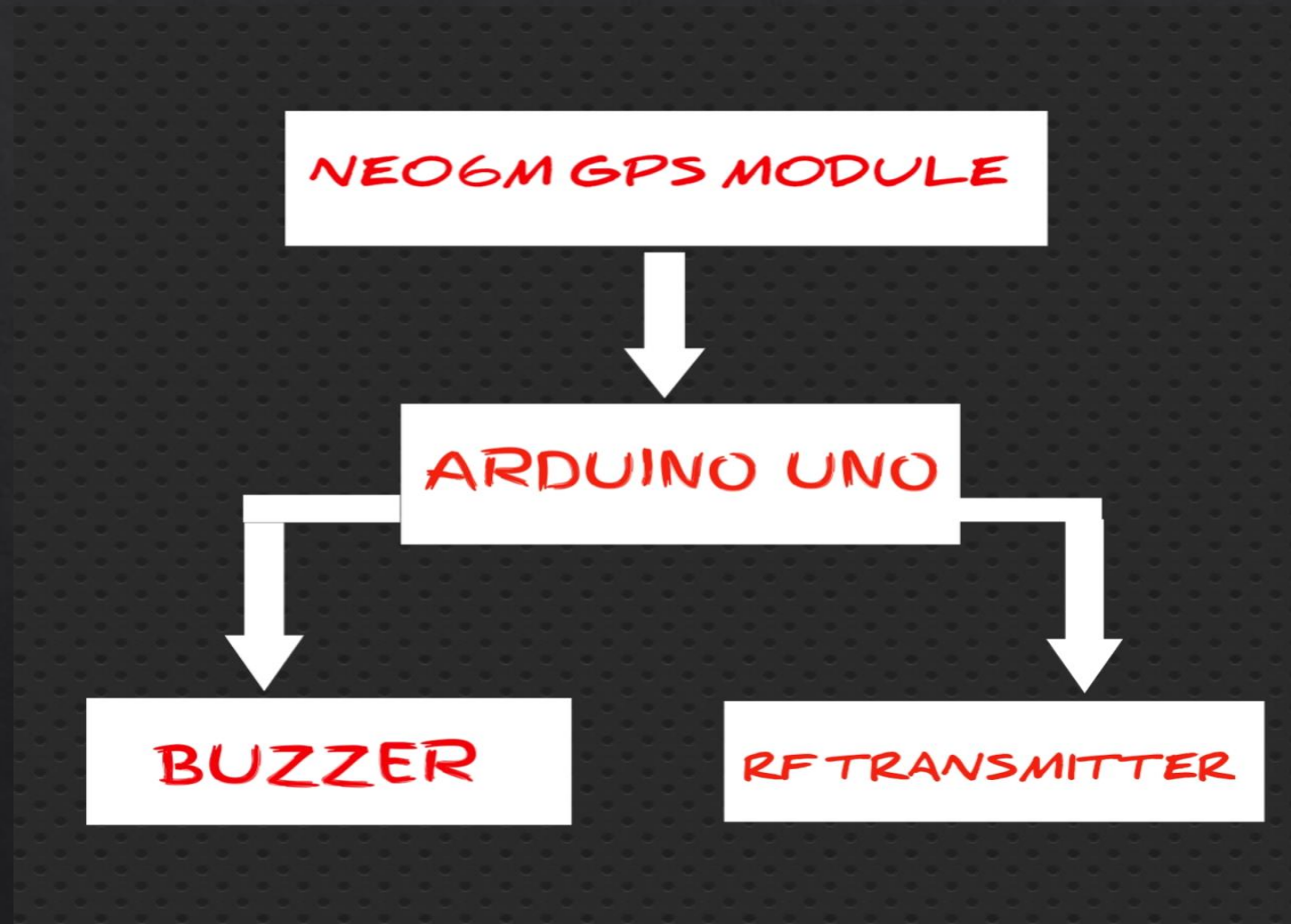
TNN | Updated: Nov 21, 2019, 09:23 IST



CIRCUIT DIAGRAM:



WORKFLOW DIAGRAM



WORK FLOW EXPLANATION:

- Neo 6M GPS Module:
 - Gives the current location in terms of latitude and longitude to the Arduino.
 - The location can be viewed in serial port.
- The programming is done in such a way that ,if the current location nears the Srilanka border then the alarm is triggered.
- Also a transmitter is used to notify the Indian Navy in order to help the fisherman from getting into trouble..

Thank You

