IoT BASED SAFTEY GADGET FOR CHILD SAFTEY MONITORING AND NOTIFICATION

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INTRODUCTION:

- Child safety is a challenging problems now a days.
- Need high surveillance for ensuring the safety among children.
- In the modern world smart phones are playing major role for ensuring the
- safety, where some mobile based application provide alert systems.
- Not provide complete solution for problems which is faced by childrens.
- Increasing need for the safety of little children

OBJECTIVE:

- To create a device that may be act as a safety gadget.

- Enhance the safety of children by its features.
- The overall set up is build inside a geo-fence.
- The gadget exits the geo-fence, a notification will pop up in the
- parent's or caretaker's mobile.

EXISTING METHOD:

REAL-TIME CHILD ABUSE AND REPORTING SYSTEM

- Used a voice recognition modules.
- If the same child delivers the same command, it will compare with
- the alert command which was previously stored and sets an
- emergency level according to the alert command.
- DIS-ADVANTAGES
- The child could not produce the exact alert command during a
- panic condition.
- The command produced may not match with the previously
- stored command.
- Required manual intervention

DIS-ADVANTAGES:

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- panic condition.
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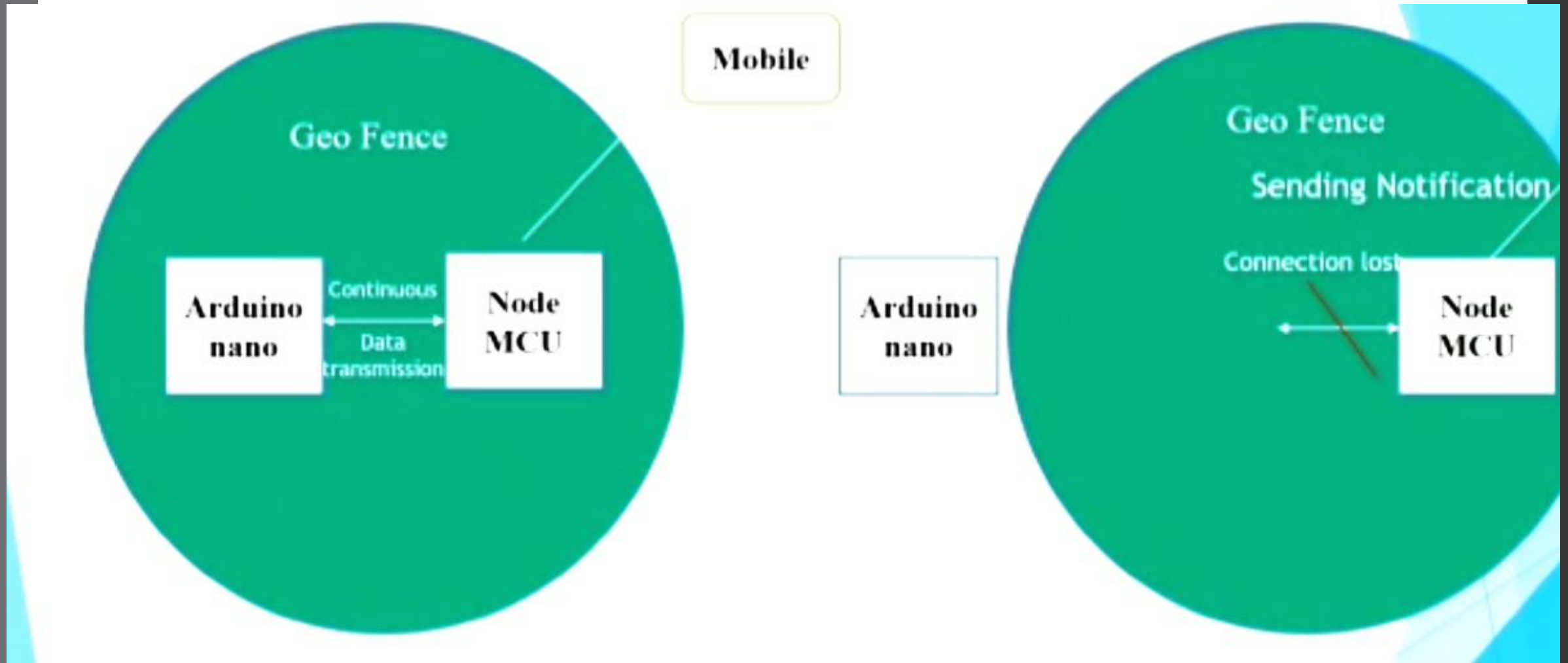
PROPOSED METHOD:

- It does not need voice command.
- Introduced Geo-fence.
- Uses the Arduino kit and the Arduino kit forms the core.
- Arduino nano is connected with NRF24L01 transceiver module
- which acts as a transmitter and the Arduino nano board is powered
- up by a lithium polymer.
- ESP8266 Node MCU WIFI board is connected with another NRF24L01
- transceiver module which act as a receiver that complement the system.

- The Arduino nano and NRF module (Transmitter) acts as a safety gadget.

- To transmit data to the NRF module(receiver).
- NRF receiver sends the data from the transmitter to the Node MCU
- board.
- All this setup is build under a Geo-Fence.
- If the transmitter exits the Geo-Fence the continuous transmission of
- dataflow From transmitter to receiver gets stopped.
- Since the dataflow is stopped, The Node MCU sends a alert notification
- to the parent's or caretaker's mobile phone.

BLOCK DIAGRAM:



DATA FLOW DIAGRAM: