

IOT PRISION BREAK MONITORING AND ALTERING SYSTEM

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ABSTRACT: In the present situation we can fluently find some iot grounded systems in public places similar as homes, shopping promenades, banks,etc. numerous systems have been came out before to fulfill this demand that generally use IOT Bluetooth, GPS but these systems can be effcted by cyber attacks. So for that we got an idea to design an advanced system to fix for this problems. The main idea of our device is to apply an complete terrain in the captivity that can find the stir of the captures and the outlanders and it can fluently overcome the limitations of the security modules available in the request.

I. INTRODUCTION

The main idea of this content is if the prisoner tries to escape from the jail the captures movement can be detected as soon as his/ her presence isn't been plant in the cell or the area he/ she is supposed to be in. well it's a quiet shocking fact but captivity escapes aren't veritably uncommon occurances. There's no exact data count but we've all hered and still keep hail of a variety of captivity escapes passing encyclopedically. Poor internet connectivity can be an issue in densely peopled areas and multistory structures. the fact that similar number of problems may still be roving among us it's scary tohere.so we propose this to descry captivity breaks and incontinently alert authorities using IOT. the system makes use of microcontroller grounded circuits to achieve the task using RFtechnology.by this we can make them calm.

II. LITERATURE SURVEY

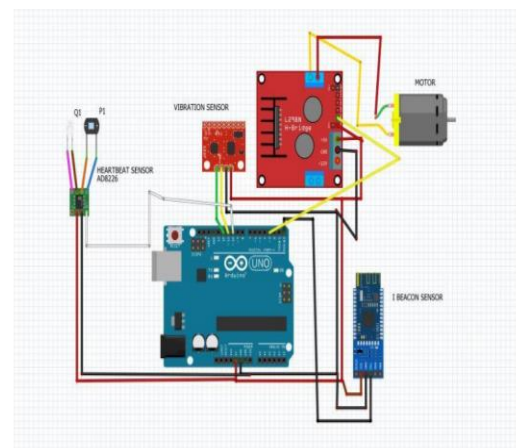
Iot captivity breaks monitoring and altering system.

In this check we can fluently find the problem statement of making a digitally sound and useful system to warn the authorities in case of captivity break and to cover the convicts usingIOT.by this device it aims to cover the conditioning of the captures and descry their position. The device consists of Arduino and RF module. the makes use of microcontroller grounded circuits to achieve the task using RF technology. each captivity is covered with a RF shamus transmitting a unique interneer law wirelessly. when a interneer exits the installation centralized system is unfit to admit his/ hercode.at that time the receiver circuitry instructs the regulator to take action against the interneer. The system now transmits the interneer details over to the officer's to shoot moment alert and catch the captures before they escape from the jail's. Then we use the IOT device (Gecko) to develop the

online waking gate system to admit input from covering device and display alert and sound alarm through internet.

III. PROPOSED SYSTEMS

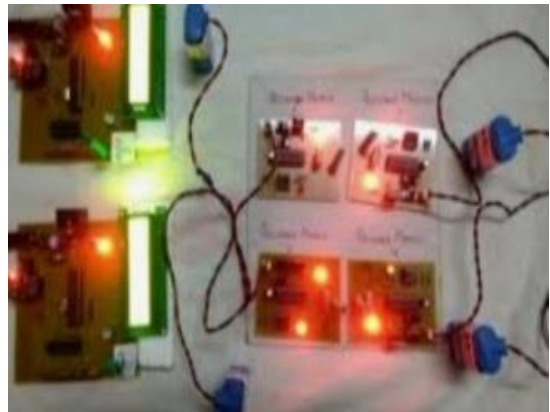
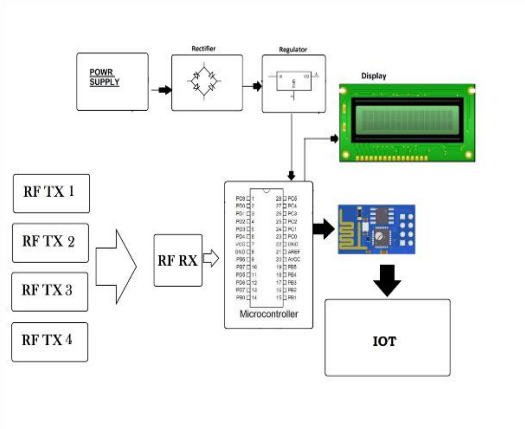
In this we use the Arduino microcontroller and sensor are used for the location tracking of the prisoners in the jail based on environment. the prisoners heart beat and health are monitored by the heart beat sensor and vibration sensor connected to the microcontroller. and also when any issues taken the sensors receive information and directly send to computer system to monitor the location. the sensor transfer both location and data transmission.by this way we use sensors in jail for prisoners.



IV. DESIGN AND DEVELOPMENT

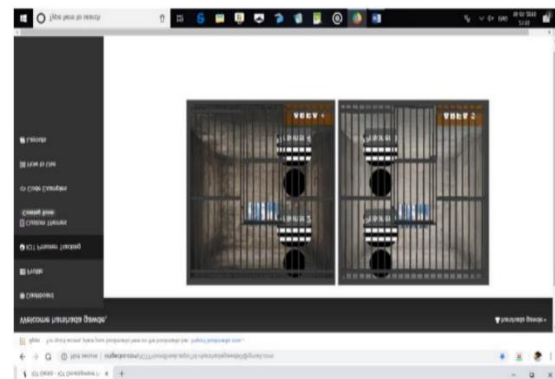
The prision break monitoring system is operated by giving a code for every prisoner using the RFID Technology which gives unique code to each prisoner. Things included the methodologies are RF Transmitters , Wi-fi Module and Microcontroller.

Block Diagram



Hardware Specifications

- Wi-fi Module
 - Buzzer
 - Oscillator
 - Resistors
 - Transistors
 - Connectors
 - Diodes
 - Breadboards
 - LED
 - Transformer/Adapter
 - Pushbuttons
 - IC
 - Atmega controller
 - Software Specifications:
 - MCProgramming Language
 - Arduino Compiler
 - IOT Gecko
- | | |
|------------|-------------|
| RF Tx Rx | Crystal |
| Capacitors | Cables and |
| PCB and | |
| Switch | IC Sockests |



V. RESULT

Iot based alerting system using arduino compiler, RF transistor and Microcontroller is proposed to a system to state its behavior in real environment. Arduino Compiler is used for programming with sensors.

In this system RFID Technology is included with this Module, Would be altering sound generated. if the prisoner tries to escape from prison the system notifies message and altering sound service to the mentor. it is easier to easier trace the prisoners longitude and latitude.

VI. CONCLUSIONS

This iot based system explains the varied systems available for prison safety and security which constitutes of a RF Transmitter and Microcontroller. Transmitter helps us to reduce the time taken by the system.

The conclusion of the project is that if the system is implemented in prison system it would be addition to new level of high security of the country.

VII. REFERENCES

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