Asset tracking domain: IOT

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INTRODUCTION

Asset tracking refers to the method of tracking physical assets either by scanning barcode labels attached to the assets or by using GPS, BLE, or RFID which broadcast their location. These technologies can also be used for indoor tracking or persons wearing a tag.

ABSTRACT

This is the system in which we will be using the PCB board to print all the required parts for transmitter and to give the copper connections between each parts that we have already placed in the PCB board. The same method should be followed in case of the receiver and we can place the transmitter in the asset which we want to be monitored. Hence by this our assets will be monitored.

REQUIREMENTS

ATMEGA328B,ESB8266 WIFI MODULE,RFTXRX,LCD,CRYSTAL OSCILLATOR,RESISTORS,CAPACITORS,TRANSISTORS,CABLE AND CONNECTORS,DIODES,PCB,LED,TRANSFORMERS AND ADAPTORS,PUSH BUTTON.

BENEFITS

Enables asset recovery
Real time asset management
Streamline maintenance schedule
Helps to maintain our assets in a more secured way

EXISTING SYSTEM

Basically this system consists of a transmitter which is connected to the assets such as laptop, wallet, mobile phone, etc…..and receiver will be placed in the room where we use to stay. The transmitter will be emitting the radio frequency and receiver will pick up the frequency. By this process our assets will be monitored.

DISADVANTAGES OF EXISTING SYSTEM

The existing system allows the user to monitor his or her assets but in some circumstances the user may not be able to monitor 24/7 and the user may not be alerted about the missing asset which leads to the loss of asset.

PROPOSED SYSTEM

The existing system allows the user to monitor the assets and will also be indicated by a LED. The proposed system alerts the user about the missing asset by a alarm. This feature is not available in the existing system.

ADVANTAGES OF EXISTING SYSTEM

The proposed system helps the user by notifying with a sound alarm which makes sure there is no need for an user to monitor the system everytime.

MODULES

Connecting components in the PCB board
Connecting with arduino
Arduino coding
Circuit testing