

International Research Journal of Education and Technology

Peer Reviewed Journal ISSN 2581-7795

## IOT ASSET TRACKING SYSTEM

Angel Joseph P<sup>1</sup>, Gomathi M<sup>2</sup>, Kannan S<sup>2</sup>, Karthikeyan M<sup>2</sup>, Vasantharaja A<sup>2</sup>

Assistant Professor<sup>1</sup>, Final Year Students<sup>2</sup>

Department of Electrical and Electronics Engineering, JCT College of Engineering and Technology, Coimbatore-641105

#### **Abstract:**

Asset tracking is the method of asset of tracking an asset either by scanning barcode labels attached to the assets or by using tags using. These technologies can also be used for indoor tracking of equipment wearing a tag. The GPS systems are today most well known location tracking systems.

These systems are not capable of pinpointing exact locations or locations of an entity within a building or on a particular floor or room. So we propose a smart asset tracking system it allows tracking the location of object. In the proposed system it makes use of RF technology along with Iot to achieve this system. This system has the location tracking capability to exact room it is currently located in. key words: asset tracking, internet of things (IOT).

## Introduction:

The safety of private and public automobiles is a major concern nowadays so having GPS automobile tracking system helps the people to travel safely. This automobile tracking system can be in consumer's automobile as theft avoidance and recovering device. Police can act in accordance with the signal emitted by the tracking system to locate a purloin automobile. Generally, this kit is meant to be placed for the four wheelers but for country like India where most of the people are using two wheelers, here is the cheapest source of an antitheft tracking system. Automobile tracking systems are commonly used by agile operators for fleet management functions such as routing, dispatch, onboard information and security. Other applications like watch the driver driving behavior, such as an employer of anemployee, or a parent with a teen driver. Automobile tracking systems are also popular in European Journal of Molecular & Clinical Medicine ISSN 2515-8260 Volume 7, Issue 11, 2020 2176 consumer automobiles as a theft prevention and retrieval device. Police can simply follow the signal emitted by the tracking system and locate the stolen automobile.

The rest of the paper is as follow. We review related technology in section. In section III we proposed the design of tracking system and execution. We conclude our work, advantages of device © 2022, IRJEdT Volume: 04 Issue: 05 | May-2022



## International Research Journal of Education and Technology

Peer Reviewed Journal

## ISSN 2581-7795

and future scope in section. The Global Positioning System (GPS) is the only fully functional Global Navigation System (GNSS). The GPS uses a sequence of between 24 and 32 Medium Earth Orbit satellites that transmit accurate microwave signals that enable GPS receivers to determine their location, speed, direction, and time [1-4]. A GPS receiver receives the signals from at least three satellites to calculate distance and uses a triangulation technique to compute its two-dimension (latitude and longitude) position or at least four satellites to Compute its three-dimension (latitude, longitude and altitude) position[5-6]. Movement is the spatiotemporal (means both space extension and temporal duration) process par excellence. Technological advances of location- aware devices, surveillance systems and electronic transaction networks produce more and more chance to trace moving individuals. so, an eclectic set of disciplines including geography, data base research, animal behavior research, surveillance andsecurity analysis, transport analysis and market research shows an increasing interest in movement patterns of entities moving in various spaces over various times scales [7-11].

In the database community there is plenty research on moving object databases (MOD) [12-13] and abstraction from spatial data queries to Spatiotemporal data queries. In our proposed IOT based automobile tracking system sends us the geographical coordinates; with the help of these coordinates we can track our automobile position on the electronic maps using IOT. Based on this technology of tracking systems, we can share real time live information about transportation, automobile details and possible approach time.

## **Literature Review**

# **TITLE:** "INTERNET OF THINGS (IOT) BASED REAL TIME GASLEAKAGE MONITORING AND CONTROLLING"

AUTHOR: Hinaruqsar, Chandana, Nandhini, Dr. TP Surekha,

This proposed paper is aimed at developing that constantly monitors that gasleak with the help of the electronic sensors

#### TITLE: "INDUSTRIAL IOT OF THE FUTURE SCHNEIDER ELECTRIC"

#### AUTHOR: Anusuya S. Jeya et.al;

International Journal of Advance Research, Ideas and Innovations inTechnology is made available real-time through real-time feeds over the internet. This data helps in easily locating the root cause of the emergency condition.

#### © 2022, IRJEdT Volume: 04 Issue: 05 | May-2022



International Research Journal of Education and Technology Peer Reviewed Journal

ISSN 2581-7795

AUTHOR: D. VishnuVarathana Reddy, N. Pushpalatha, I. Suneetha

**TITLE**: "RFID AND SENSORS IMPLEMENTATION IN SMARTSECURITY ROBOT NAVIGATION SYSTEM"

This paper proposes an implementation of RFID and sensors in the smart security robot navigation system. Robot movement is generally controlled by a human by using a remote or mobile. The system usesRadio Frequency Identification (RFID) tags as Land marks to estimate the robot position within the topological map.

## System modeling and Design:



IoT enabled Asset Tracking System or Smart asset tracking system is a group of connected devices used for tracking valuable property with the help of GPS and GNSS (Global navigation satellite system) it offers almost pinpoint accuracy of the properties location.

As every business from the owner of manufacturing equipment to the fleet of vehicles and animal husbandries wants to protect and look after their assets the IOT tracking devices come as a great © 2022, IRJEdT Volume: 04 Issue: 05 | May-2022



## Peer Reviewed Journal

## ISSN 2581-7795

rescue especially for non-mechanical assets. It notonly tells the location but also the condition of the asset and also suggests how it can be taken care of better using analytics for example it can remind when to feedthe livestock and when to give the required medicines.

## **Conclusion:**

Web application for IOT based asset tracking system f o r hospital is developed for tracking the medical equipment. It is easy to track the medical equipment. It greatly reduces the time by managing this web application. Future work involves integrating the patient data in to the web application so that we can use this system for hospitals. This web application can surely help to improve the hospitals. Suitable Mobile Application for Hospital Asset Tracking will be created.

#### **References:**

- 1. S. Aswini Prathiba, Divya Jain; Hospital Management System Using RFID; International Journal of Advance Research in Computer Science and Management Studies
- 2. Gunther Eysenbach; Web-Based Medical Appointment Systems; Journal of Medical Internet Research
- 3. Indira R, Bhavya G, Dheva Dharshini, Devaraj R; IoT Asset Tracking System; SSRG International journal of computer science and engineering.
- **4.** Mohammed Baqer M. Kamel, Loay E. George; Remote Patient Tracking and Monitoring System; International Journal of Computer Science and Mobile Computing.

**5.** Sabah Al-Fedaghi; Developing Web Applications; International Journal of Software Engineering and Its Applications

6. T.R. Saravana, R.S. Vaibhave; Asset Management in Manufacturing Industries Using Big Data Analytical Architecture