

# Tracking for Easy to Find Out Animals and Things through Internet of Things

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**Abstract:** Now a days so many peoples are live on the animal business . In some time animals are missing from the group of animals. the missing animals are for-gated the way for the return back to home . At that time owner will be suffer for seeing in surrounding areas and dough full areas in this process he will tack long time or he can't find out the animal . So it is very said news .in this paper we proposed is a small physical object is attached to the animal ear . if animal animal can't return back to home owner will be used his android mobile and easy to find out where at animal is presented. The physical object is support that information in this process is going on some service provider by using navigator we can reach at area easy to find out the animal short time.

**Index terms-** IoT, smart phone, RFID.

## I. INTRODUCTION

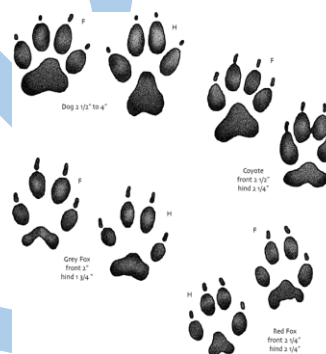
Internet of things is a interaction between the things that consists of sensors and human . The main concept of the IoT is to allow things to be connected any time,any place with anything and any one,and any network and any service. By developing this we need a common operating platform that is middle ware. The middle ware platform enables sensor data collection,processing and analysis. Presently we design and implementation details of our proposed middle-ware solution namely mobile sensor data processing engine (MOSDEN). MOSDEN is designed to support sensing as a service model natively. MOSDEN is a true zero programming middle ware. That means user do not need to write program code this MOSDEN middle ware is used for push and pull data streaming. For data transaction between android mobile and sensors we can develop a special plug-in that is used for the better communication between the sensor and human.

## II. BASIC INFORMATION ABOUT IOT WORK

in this section, we briefly discuss the background and our motivation behind this work.

By using IoT we can connected to billions of thing to the Internet. This method is not possible and practical to connect all of them to the Internet directly. This is mainly due to resource constraints ( ex. network,communication capabilities and energy limitations) connecting directly to the Internet is expensive in term of computation bandwidth usage and hardware cast point of view. Enabling persistent Internet access is challenging and also negatively impacts on miniaturization and energy consumption of the sensor. due to such difficulties, IoT solution need to utilize different type of devices with different resource limitation and capability. We believe that an ideal IoT middle ware solution should be able to take advantage and adapt to these different type of devices in order to make the solution more efficient and effective. One of the most critical decision that need to be taken in the domain of IoT is where and when to process the collected data.

with out IoT:



**fig1:** in olden days animal tracking

in this figure simple representation in olden days and also presented days in some areas it plan will be applied because that areas has no technology . That way those are fallow this method.

present days animal tracking major problem in the poor peoples. It means find out the area to present the animal. In this process there is no technology supporting animal owner will be directly go to the nearest places and doubtful areas and then search it is very risky process because we don't no exact location. Just we can search on the guessing areas. Hear no guaranty for find out the animal. If suppose some body is diverting the animal way like controlling or exporting in this time owner difficulty to find out the animal presented area. Financial it is major problem for the animal owner this problem not only for animal all the movable objects like vehicles and childes and etc cases also it is major problem for the find out the object location

with IoT:

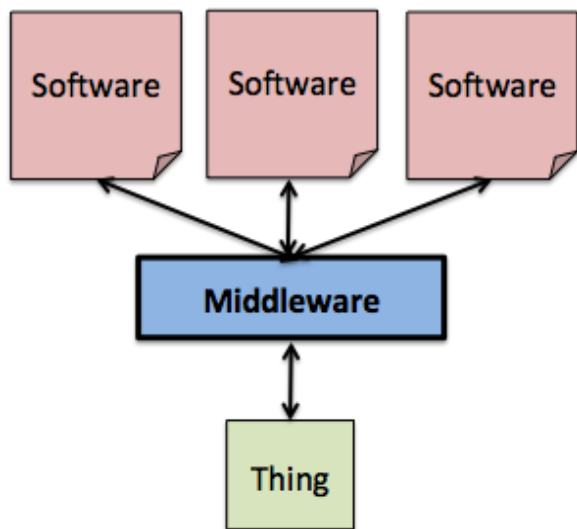


fig 2: below figer is simple architecture about the IoT

using the advanced technology we can easy to to find out the animal presented location. A small tag will be attached to the animal by using that tag we easy to traces the animal presented direction and going direction. In this process we can use two tags one is passive tag and active tags. In passive tag has two task are available one is RFID and NFC. RFID means radio frequency identification. And NFC means near field communication. It is used for sending the information trough the active tag active tag feachers are zigbee and wifi and bluetooth these are presented active tag will be sent the signals to the owner. This technology very useful for the provide the animal security and easy to find out the animal presented location. It is technology not only useful for the animal tracking it is also useful for the any movable object like vehicles and childes etc..., it is very useful for the tracking and fatly find out object location

**Implementation:**



fig: active tag  
in this paper implementation we are taken the some physical objects that are arduino uno board for sending the signal and smart phone or android phone for receive the signal from active tag and passive tag.

Now let's start for implementation of this paper

firstly we can connected the active tag and passive tag will be attached to the animal. In active tag has contain feachers are zigbee and wifi and bluetooth . By using active tag feachers we can try to send the signal to the owner. And we are attached one more tag to the animal that is use for create the signal that tag is passive tag. In passive tag has the feachers are RFID and NFC. RFID is radio frequency identification and NFC is near feed communication.

Hear we can take help from other application that is navigation application by using these application we can easy to find out the animals were present. In these method is very helpful for all peoples whose are depends on the animal profit. And also so it is helpful for the child protection because same methodology apply the child and then easy to find were childes are presented. now comes to the programming side implementation. In this paper is implement on the android platform because this program run on the the smart phone. So defiantly we are develop the program in the android platform. In this paper smart phone will be send the signal to the active and passive tag in this chip in side one web server is presented and it have the capabilities to receive the signals request. By using the IP(Internet protocols) address of the chip and Ethernet server functionality programming will be developed. Mobile recive the HTTP request in JSON(Java server on net) format signal will be send chip inside server will be sending that signal . In this button signal will be send on HTTP protocols formate and this program will be run on the web server

**III. RESULTS AND DISCUSSIONS:**



fig 3: output representation and intration between smart phone and chip interaction.

in this above figure we can easily analysis what is the process is going on and how it is used total representation in the fig 3. it is very easy processing to about how to find out the animals.. Hear no suffering about the any problems. By using this process we can save the money and time without tension. In this technology is very useful for formers and whose are depends on the profit from animals.

In this technology is very use because animal tracking is very

difficult No need tension about the IoT basics etc. it is just mobile operating. It can operate uneducated peoples also.

#### IV. CONCLUSION:

We hope using the advanced technology we can easy to to find out the animal presented location. A small tag will be attached to the animal by using that tag we easy to traces the animal presented direction and going direction. In this process we can use two tags one is passive tag and active tags. In passive tag has two task are available one is RFID and NFC. RFID means radio frequency identification. It is used for sending the information trough the active tag active tag feachers are zigbee and wifi and bluetooth these are presented active tag will be sent the signals to the owner. This technology very useful for the provide the animal security and easy to find out the animal presented location. It is technology not only useful for the animal tracking it is also useful for the any movable object like vehicles and childes etc., it is very useful for the tracking and fatly find out object location.

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