# Smart Disease Surveillance Based on Internet of Things (IoT)

# ABSTRACT

Surveillance is a regular collection, analysis, and interpretation of data on disease patterns of a geographic area which helps in indicating outbreaks of major health related symptoms. In developing countries like India, efficacy of a surveillance system is often hindered by the quality and availability of data. Internet of Things (IoT) concept enables the possibility of information discovery about a tagged object or a tagged person by browsing an internet addresses or database entry that corresponds to a particular active RFID with sensing capability. In the Internet of Things based "Smart Disease Surveillance" the smart device, which is none other than the main server located in every hospital which maintains patient records, will automatically process and send the required information to the backbone network. This backbone network will in turn process and give information to the health ministry so that the trends are understood quick, smart and easy. This will help the ministry to take necessary steps without much delay as all the information is given by the smart devices.

# EXISTING SYSTEM

- Disease surveillance data on epidemic prone disease are being collected from reporting units such as sub centres, primary health centres, community health centres, hospitals including collects data from various private and public health centres.

- But generally it's only after the widespread outbreak people are aware this is due to slow and inefficient disease surveillance system.

# PROPOSED SYSTEM

- Smart Disease Surveillance based on Internet of Things is a proposal to make an efficient disease surveillance and hence help in identifying the trends of the various diseases.

- The proposal is for a huge network of smart devices which can automatically process and analyse data entered into it.

- The smart backbone device will have to analyze and produce results from data generated from different smart devices.

# SYSTEM REQUIREMENTS

## SOFTWARE REQUIREMENTS

- Keil/Arduino IDE

# REFERENCE

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