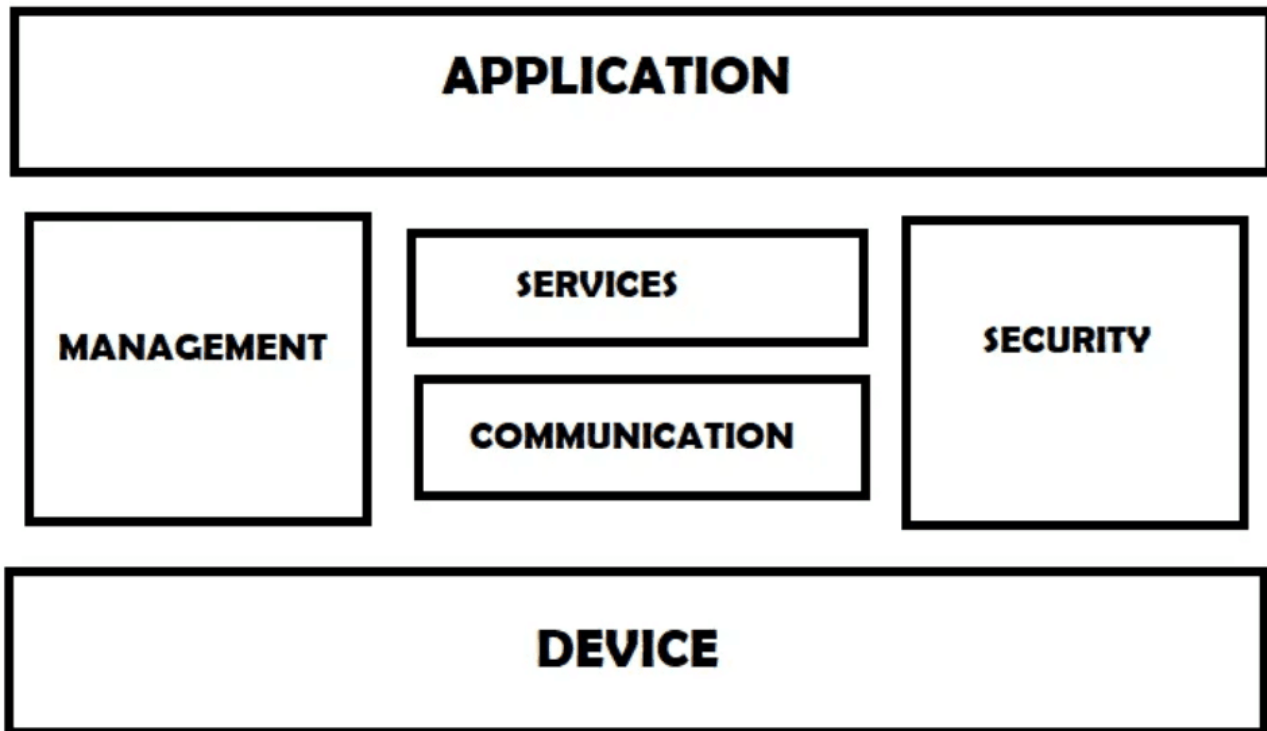### INTRODUCTION

An IoT system consist number of functional blocks like Devices, services, communication, security, and application. They provides the capability for sensing, actuation, identification, communication, and management.

These functional blocks consist of devices that provide monitoring control functions, handle communication between host and server, manage the transfer of data, secure the system using authentication and other functions, and interface to control and monitor various terms.

APPLICATION

It is an interface that provides a control system that use by users to view the status and analyze of system.

MANAGEMENT

This functional block provides various functions that are used to manage an IoT system.

SERVICES

This functional block provides some services like monitoring and controlling a device and publishing and deleting the data and restore the system.

COMMUNICATION

This block handles the communication between the client and cloud-based server and sends/receives the data using protocols.

SECURITY

This block is used to secure an IoT system using some functions like authorization, data security, authentication, 2 step verification, etc.

DEVICE

These devices are used to provide sensing and monitoring control functions that collect the data from the outer environment.