SMART CITIES FOR FUTURE: DESIGN OF DATA ACQUISITION METHOD BASED ON BLYNK(IOT)

ABSTRACT

IOT deals with intricate systems that integrates multiple disperse components towards their synergetic use. In this paper a system of interconnected smart modules is developed where each and every parameter necessary for a city is monitored and updated to the cloud. Emphasis is given on how sensing and communication technologies of IOT can effectively be used in smart city monitoring. This paper also includes smart parking system with garbage collection. Further this project also includes controlling of some parameters like water and light.
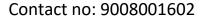
INTRODUCTION

The main concept of IOT is machine to machine communication. Internet-based sensor networks have recently been gaining attention. Sensors are connected to the Internet and the information from the sensors is gathered at a server through the Internet. Security and manageability of sensor information transmission and deployability of sensors connecting to the Internet wirelessly are the major issues though low cost and high scalability are expected.

Currently IOT systems are used to remotely record and keep track of family and friends, send notifications about climate change, inform users of traffic information concerning minor, local roadways, notify of arrival and departure times of railways, etc. Smart city refers to a future city that makes use of upcoming and latest technology. The sensors and actuators available in the market today allow users to perform many tasks. Thus, localized or private information of such day to day activities must be securely saved say on a server for keeping track of safety and well-being of humans.
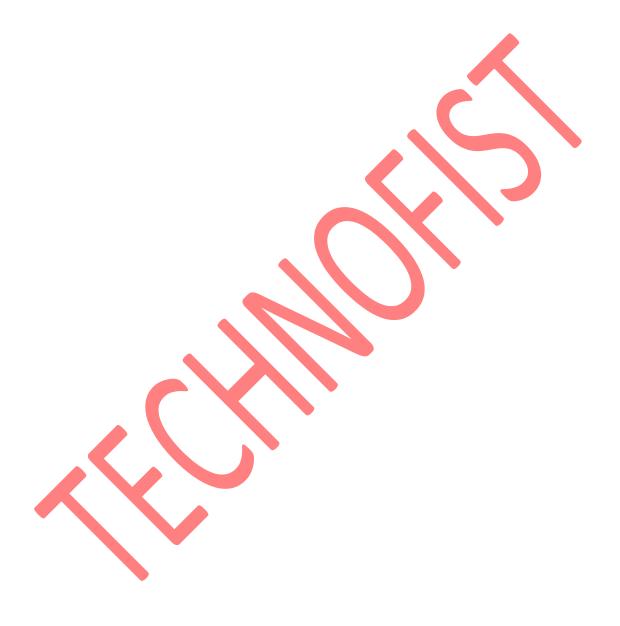
This project work aims at developing a system which facilitates aids in the collection of data with the help of interconnected modules consisting of multiple sensors useful for smart city monitoring.