A Project Report

On

AUTONOMOUS CROWD MANAGEMENT SYSTEM IN SMART CITY

Submitted to

VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELGAUM, KARNATAKA- 590014

In partial fulfilment of the completion of Eighth semester

Bachelor of Engineering

in

Information Science and Engineering

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CERTIFICATE

This is to certify that the project entitled **"Autonomous Crowd Management System In Smart City"** has been successfully completed by

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ABSTRACT

The development of technology related to Internet of Things (IoT) provides a new perspective on application pertaining to smart cities. Smart city application focus on resolving issues facing by people in everyday life. The Crowd management is an important research area due to its impact on significant numbers of people in society. The typical issue encountered in such places of daily use such as stations, shopping mall and stadiums is crowd dynamics management.

In this model, the problem of queue in convenient stores is considered. We propose a low cost automatic queue monitoring system by using an Internet-of-Things (IoT) platform. Manually calculating the number of people who enter and exit the supermarket and updating this data in real time is not possible. So this model will provide the count of crowd present in a particular store to the public.

The count of the people will be stored in Thingspeak cloud, which is an IoT dashboard or a platform service that allow you to aggregate, visualize and analyse live data streams in the cloud. It provides the instant visualization of data posted by your devices to Thingspeak. It is used for prototyping and proof of concept IoT systems that require analytics. The main purpose of Thingspeak here is that, as the count of people increases in the cloud, the data is fetched and made available to the public, where they can get access to the crowd count and decide whether to go or not.