Automated Kitchen Management and Provisions Monitoring System Using IoT Technology

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Abstract

The primary purpose of this paper is to provide a user-friendly android application of kitchen monitoring for cooking by using the Internet of Things. Applications are available for fetching the recipes, but this project helps to reduce our mind calculation in choosing the cuisines. This application extracts the kitchens which stored in the Web Service. A sensor node is used for sensing the weight of the grocery container and uploads it to the Web Service. By using this update, the user can choose the cuisine and recipes with the available products and cook. This application can be used from anywhere at any time by making the recipe decisions easier. If a particular grocery is found empty, then its weight is notified as 0, that is, that specific grocery has to be refilled in its container. The main aim of this research is to provide a user-friendly android application that is useful for monitoring the food provisions in the kitchen and also provide different variety of cuisines and recipes based on the availability of ingredients.

Keywords: Smart Kitchen Monitoring, Internet of Things, Sensors, Web Service

I. Introduction

The kitchen is a significant spot of the home, and cooking is one of the everyday exercises. The typical trouble in a kitchen during cooking is seeing some food supplies as unavailable. The developing prominence of computerized frameworks shows the interest of the family unit gadgets to be shrewd and mechanized to help our everyday exercises [1]. Day by day kitchen exercises remember stocking kitchen cupboard for connection to distinguished dietary regiments, likes, and needs, tastes, etc. Smart Kitchen is an imaginative application that utilizes the Internet of Things (IoT). The term IoT defined to scenarios where organize network and computing ability reach out to objects, sensors, and regular things not ordinarily thought about PCs, permitting these devices to produce trade and expend information with negligible human intervention. We use IOT in this project for