Abstract

The tasks in our lives are getting easier and easier with the rapid growth of technology. The world is moving into an era of smartness and everything is getting automated and is able to be controlled remotely using sensor technology. Kitchen is a vital area in a home where the activities in the future has space for improvement in the field of home automation. The ingredients of a kitchen needs to be monitored manually and decisions will have to be taken by the user. The research paper explains a system that can be used to measure kitchen ingredients in an automated manner. The sensors are being used to transfer data with the help of a Wi-Fi-shield which is used to connect the Arduino board and the data will be presented in the form of an android application to the user. This helps in budgeting income for a month and gives the user an idea how much will be needed for the next month. Included in the project is measuring gas level using a weight sensor and when the level drops the supplier is informed. Since the application is hosted on a server the user is able to view the data from anywhere as the data and the elements are connected using the internet of things concept.
References


Index Terms

Computer Science

Control Systems

Keywords

Sensor technology, home automation, wifi-shield, Arduino board, android application, budgeting income, weight sensor, internet of things