**AUTOMATED AND PORTABLE PRODUCT BOOKING OF HOUSEHOLD COMMODITIES USING IOT BASED ON PRODUCT WEIGHT**

Submitted in partial fulfillment of the requirements for the award of

Bachelor of Engineering degree in

Computer Science and Engineering

by

**SANTOSH V (Reg. No. 3411381)**

**SAILESHE M S (Reg. No. 3411374)**

****

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**SCHOOL OF COMPUTING**

**SATHYABAMA**

**INSTITUTE OF SCIENCE AND TECHNOLOGY**

**(DEEMED TO BE UNIVERSITY)**

**Accredited with Grade “A” by NAAC**

**JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119**

**APRIL 2018**

****

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**JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119**

**www.sathyabama.ac.in**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**BONAFIDE CERTIFICATE**

This is to certify that this Project Report is the bonafide work of **SANTOSH.V (Reg. No.3411381)** and **SAILESHE.M.S (Reg. No.3411374)** who carried out the project entitled **“AUTOMATED AND PORTABLE PRODUCT BOOKING OF HOUSEHOLD COMMODITIES USING IOT BASED ON PRODUCT WEIGHT“** under our supervision from September 2017 to April 2018.

**Internal Guide**

Mr. S. DHAMODARAN M.Tech., (Ph.D.,)

**Head of the Department**

Dr. S. MURUGAN M.E., Ph.D.,

**Submitted for Viva voce Examination held on\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Internal Examiner External Examiner**

**DECLARATION**

We **SANTOSH.V (Reg. No.3411381)** and **SAILESHE.M.S (Reg. No.3411374)** hereby declare that the Project Report entitled **“AUTOMATED AND PORTABLE PRODUCT BOOKING OF HOUSEHOLD COMMODITIES USING IOT BASED ON PRODUCT WEIGHT”** done by us under the guidance of **Mr.S.DHAMODARAN M.Tech., (Ph.D.,)** is submitted in partial fulfillment of the requirements for the award of Bachelor of Engineering degree in Computer Science and Engineering.

1.

2.

**DATE:**

**PLACE: SIGNATURE OF THE CANDIDATES**

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ABSTRACT

Now a days, things are changing rapidly in this ultra-modern world. Many machines have been developed which make human life easier. Now, people are getting so much busy in their day-to-day work. People think that there should be a technology that will reduce their work load. Internet of Things fulfils this requirement of people. We proposed the design and construction of an automated product purchasing system based upon their weight. In household needs like gas, water and monthly purchasable things purchased on measuring kilograms criteria. We have deployed the automatic system that would continuously monitoring the weight of those products if any one product is found to be reduced in their weight, system automatically alerts the server about that item which is need to be purchased or booked. From android side user would be able to view that indication alert and booking history of the items purchased.

The project intends to make use of Arduino to enable the server to continuously monitor the weight of the household commodities with the help of a load cell and automatically make booking to the corresponding seller of that corresponding commodity.

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**ACRONYM EXPANSION**

SDLC Software Development Life Cycle

API Application Programming Interface

IDE Integrated Development Environment

SDK Software Development Kit

AVD Android Virtual Device

DSSS Direct Sequence Spread Spectrum

USB [Universal Serial Bus](http://en.wikipedia.org/wiki/Universal_Serial_Bus)

SCI Serial Communication Interfaces

ESSI Enhanced Synchronous Serial Interface

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