Mahavir Swami College of Polytechnic

CERTIFICATE

This is to certify that project entitled **"Basket Scanner"** has been carried out by **Mr.Patel Soham (169550307039) i**n 5th and 6th semester at Mahavir Swami College of Polytechnic under the guidance and supervision of **Ms. Hiral Patel** for the partial fulfilment of the Diploma Engineering in **Computer Engineering** of Gujarat Technological University, Ahmadabad during the academic year 2019-2020.

To the best of my knowledge and belief, this work embodies the work of candidate themselves, have duly completed, fulfils the requirement of the ordinance relating to the Bachelor Diploma awarded by Gujarat Technological University and is up to the standard in respect of content, presentation and language for being referred to the Examiner.

Prof. Hiral Patel
(Faculty Guide)

Prof. Hiral Patel
Head of the Department

CANDIDATE'S DECLARATION

I declare that Fifth/Sixth semester report entitled "**Basket Scanner"** is my own work conducted under the supervision of the guide **Ms. Hiral Patel (Internal guide).**

I further declare that to the best of my knowledge the report for DIPL. Final year does not contain part of the work which has been submitted for the award of DIPL. Degree either in this or any other university without proper citation.

(Signature)

Student's Name: Patel Soham N.

Enrollment No: 169550307039

ACKNOWLEDGMENT

I would like to take this opportunity to convey my sincere thanks and deep sense of gratitude to my guide **Prof. Hiral Patel**, Computer Engineering Department, Mahavir Swami College Of Polytechnic, for her enthusiastic encouragement, strong support, inspiration and motivation throughout. She always helped me by giving support and solving doubts.

The grateful thanks to all faculty members of Computer Engineering department, Mahavir Swami College Of Polytechnic, who always helped me by giving fruitful suggestions, support and encouragement which not only helped me in preparing this work but also in having a better insight in thisfield.

I also extend our Special thanks to her **Prof. Hiral Patel**, Computer Engineering department, Bhagwan Arihant Institute of Technology, for her encouraging and positive suggestions and providing necessary resources and solutions whenever needed. Without her fruitful guidance it was not possible for me to prepare this work.

ABSTRACT

While purchasing in the supermarket we can gather items we want, put it in the container and at the time of billing only we come to know about the total cost. Also, we need to stand in a queue for billing those items. To overcome this we can design a RFID Based Trolley to make the purchase more easily and comfortable. A RFID Reader with electronics hardware system in fitted with the trolley to make the purchase comfortable. All the items are fitted with a RFID card whose price is fixed into the card. When the item is shown in front of the reader (fitted in the trolley) the amount for the item is added to the purchase bill and is shown on the LCD Display. It also has the provision for removing the items from the trolley where the cost is removed from the total cost. Once the items are added the cost is added up and if it crosses a certain limit, say above 500 Rs. or 800 Rs. it gives an alarm signal to indicate that. All this information is sent to a computer for billing update through a wireless link. This facilitates the billing system even faster and reduces time.

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LIST OF FIGURE