

VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
"JNANA SANGAMA", BELGAVI-590018 KARNATAKA



Mini Project Report (18ECMP68)

ON

**"SMART SHOPPING TROLLEY"**

Submitted in partial fulfillment of the requirement for the award of degree

**BACHELOR OF ENGINEERING**

IN

**ELECTRONICS & COMMUNICATION ENGINEERING**

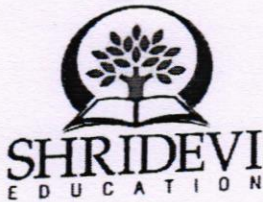
Submitted by:

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**LAVANYA K R (USN: 1SV20EC402)**

Under the Guidance of:

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING  
SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Recognized by govt. of Karnataka, Affiliated to VTU, Belagavi and approved by AICTE, New Delhi)

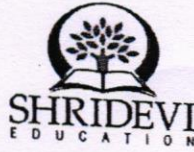
Sira Road, Tumkur-572106

2021-2022

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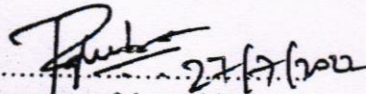
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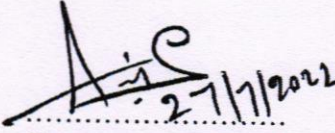
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*Certificate*

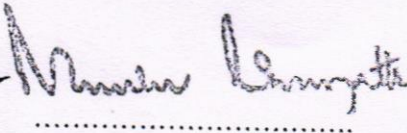
This is to Certified that the mini project work (18ECMP68) entitled "SMART SHOPPING TROLLEY" has been Successfully carried out by GANASHREE K R (USN:1SV20EC401),LAVANYA K R (USN: 1SV20EC402), a bonafide students of Shridevi Institute of Engineering and Technology, Tumkur- 572106, in partial fulfillment for the award of Bachelor Of Engineering in Electronics & Communication Engineering of the Vishvesvaraya Technological University, Jnana Sangama, Belagavi -590018, during the academic year 2021-2022. It is certified that all corrections/suggestions indicated for internal assessments have been incorporated in the report. The mini project report has been approved as it satisfies the academic requirement with respect to the mini project work prescribed for the said Bachelor Of Engineering degree.

  
Signature of the guide

**Prof. Raghavendra D**  
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Signature of the HOD

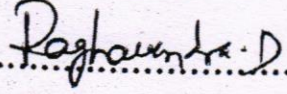
**Prof. Aijaz Ahamed Sharief**  
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Signature of the principal

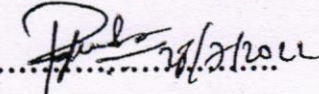
**Dr. Narendra Viswanath**  
Principal  
SIET, Tumakuru

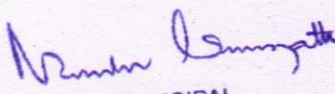
**EXTERNAL VIVA**

Name of examiners:

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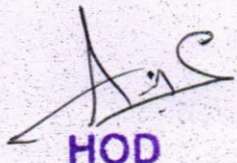
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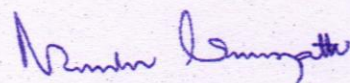
  
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## ABSTRACT

In metro cities we can see a huge rush at shopping malls on holidays and weekends. This becomes even more when there are huge offers and discounts. Now a days people purchase a variety of items and put them in the trolley. After purchasing one should approach counter for billing purpose. By using barcode reader the cashier prepares the bill which is a time consuming process. This results in long queues at the billing counters. This project presents an idea to develop a system in shopping malls to overcome the above problems. To achieve this all products in the mall should be equipped with RFID tags and all trolleys should be equipped with a device which we have made to accelerate the whole process of shopping. After entering the store customer just walks near the product and scans it with the RFID tag and takes it and cost of the product will be displayed and customer receives the message of the cost with the payment link. If the customer wish to remove the product from the trolley, you can take away the product and the amount of that specific product will be deducted from total amount and the same information will be passed to the customer's mobile.



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