



## SELF CHECKOUT SHOPPING TROLLEY

### ABSTRACT:

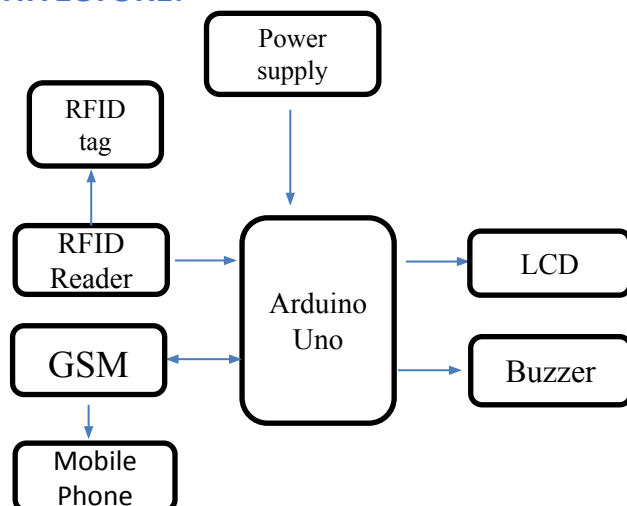
Shopping is easy, but waiting at the bill counter can be very boring & laborious. Rush plus cashiers who prepare a bill with a barcode scanner take longer & have longer-lasting results. Technology has changed so much, so is the rate of people of all ages who are attracted to electronic gadgets. In many industries, electronic devices such as smart card readers, barcodes, and RFID scanners are increasingly used. Supermarkets also need these kinds of gadgets to make shopping convenient.

### DESCRIPTION:

This innovative project includes an automated billing system that can be placed in a shopping trolley. This automated payment system includes a RFID reader controlled by Arduino instead of the traditional barcode readers. A product can be bought by scanning its barcode using RFID reader and will be detected using weight sensor. By then all the details will be displayed on the LCD screen. This process continues till the shopping ends and at the end the detailed analysed bill will be sent to the given mobile number and payment can be done in the online or offline mode according to convenience of the customer.



### ARCHITECTURE:



### CONCLUSION

This innovative project idea can be used in places like shopping complexes, supermarkets & malls to purchase the products. Here RFID card is used to securely access every product in shopping places. If a product is scanned & put into the cart, all the required details of the product will be displayed on the LCD screen. Therefore, an RFID tag/card is used for accessing the products. Hence this project will help in improving the security & also the shopping.

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