



Er. Perumal Manimekalai College of Engineering
INNOVATIVE AND ENTREPRENEURSHIP DEVELOPMENT CENTER



“SMART SHOPPING BASKET”

Team members:

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MENTOR

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PROBLEM STATEMENT

- The Supermarkets are almost crowded with long queues.
- Conflict between the billed and unbilled items.
- Customers unaware of the recent product's price.
- Other available market products has potential to carry only goods and bill at counters



OBJECTIVE

- Developing a smart basket that helps customers to bill their own products. Hence, saves time.
- A basket which is designed with the rate calculator, quantity , price of each items so that the items don't pile up during billing

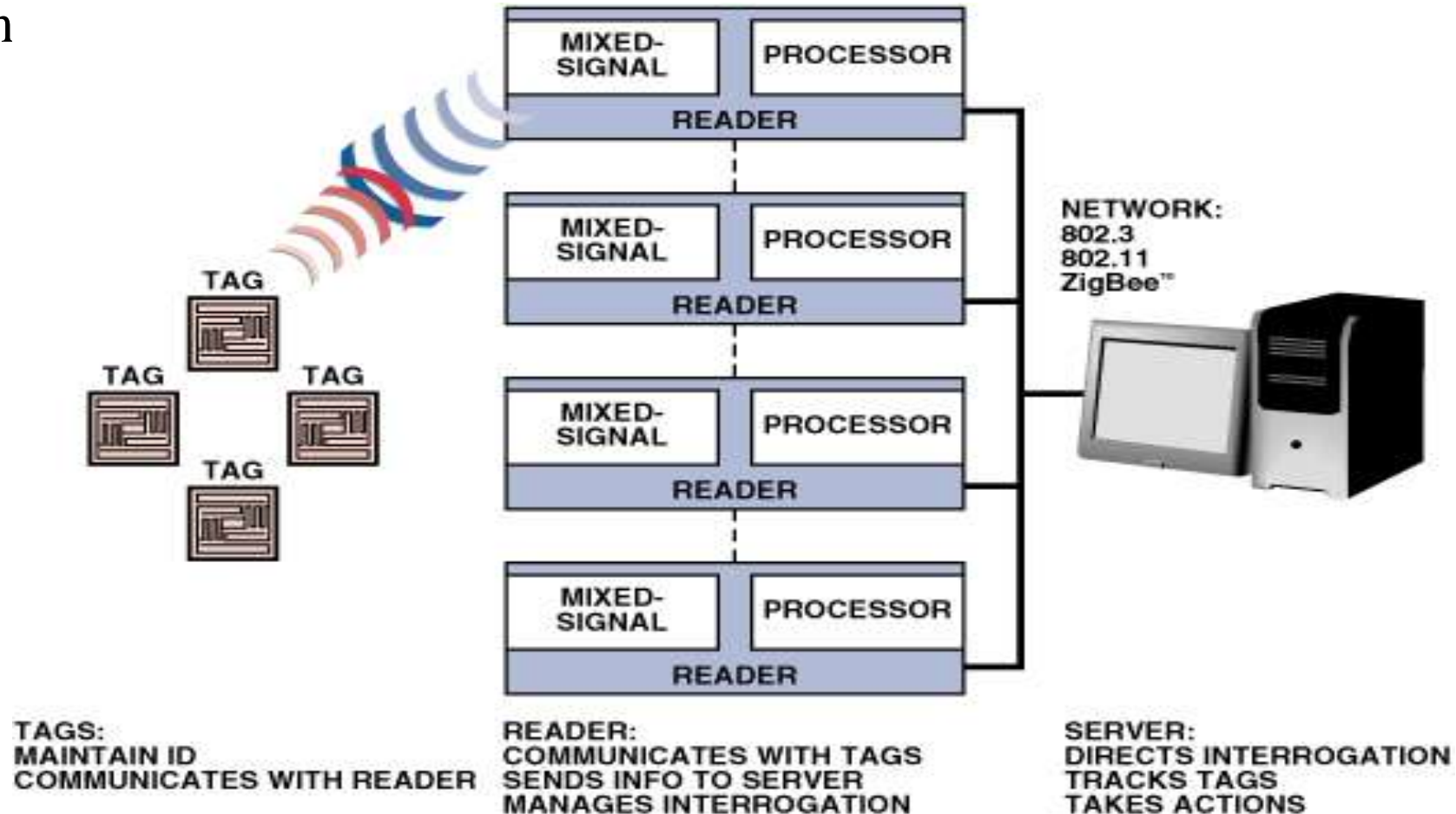


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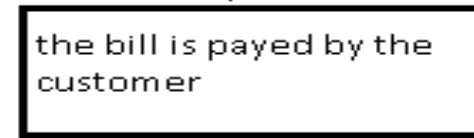
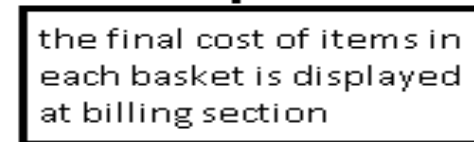
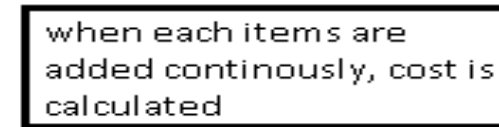
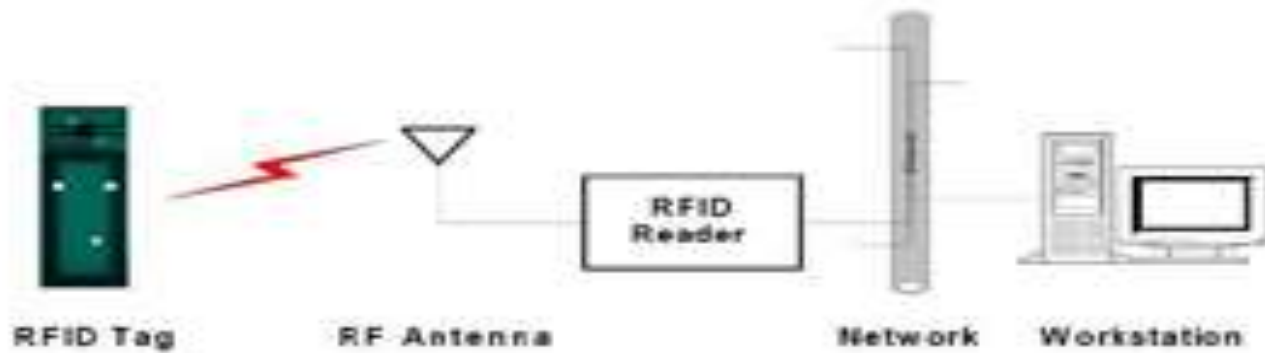
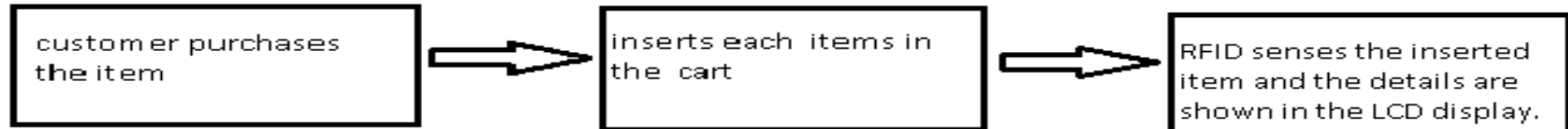


INNOVATION

- Smart shopping basket is innovated with the following components:
 - RFID tag on the item
 - RFID reader
 - RFID sensor
 - LCD display



TECHNICAL DESCRIPTION



COMPONENT DESCRIPTION

- A long basket
 - RFID tags
 - RFID reader
 - RFID sensor
 - LCD display

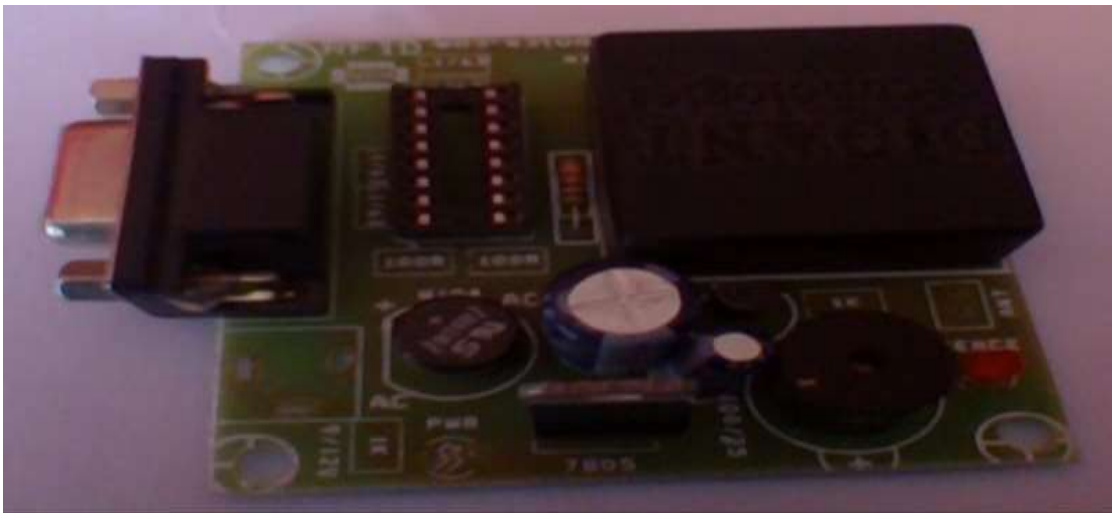


RFID reader

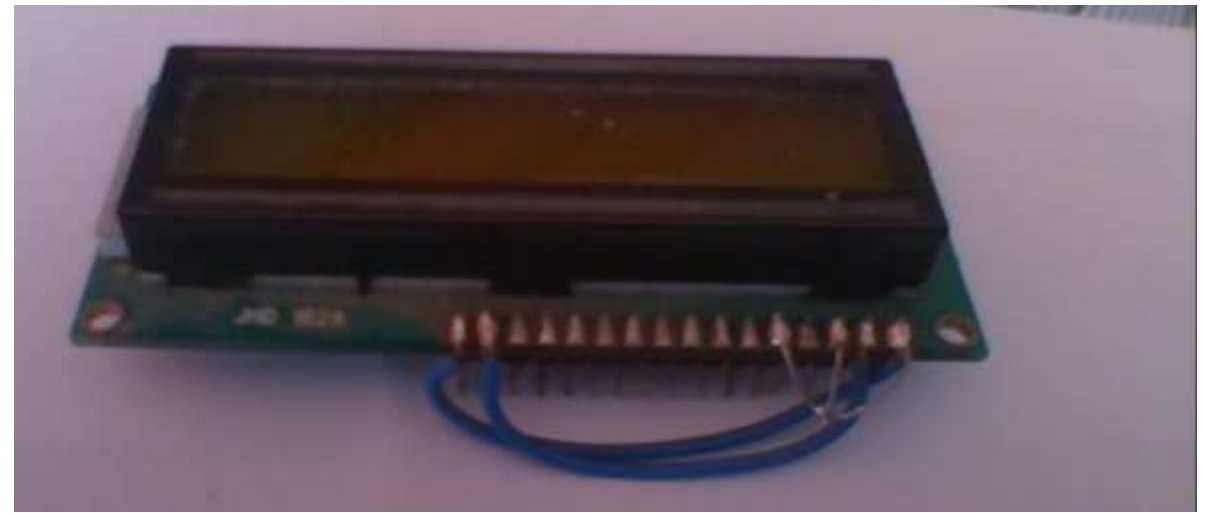


PRINCIPLE

- Retrieves the price of data from centralized system.
- Generates the Bill when consumer ends shopping
- Invoice, Sales, Weekly, Daily, monthly Generation
- LCD displays Offers during Festive / weekends
- Reader scans at 1sec per product



RFID sensor



LCD display

BUDGET REQUIRED

Production Cost	Material Cost	Total Cost In RS	
Raw Material Cost	1 RFID Reader 125KHZ		3,000.00
	1 RFID Sensor		2,500.00
	1 RFID Microchip Tag		100.00
	Display		1000.00
	Basket		300.00
	Wireless TX & RX for display		4500.00
	Battery, power supply		2000.00
	Electronic circuits		3000.00
Manpower Cost	1 Labor per day	300*2*1	600.00
Manufacturing cost	Per product		700.00
Packing & Delivery cost	Per product		300.00
	Total Cost Per Product		18,000.00
	25% Profit Per Product		1250.00
	Selling Price		19,250.00

PRODUCT DEVELOPMENT

- COMPONENTS PURCHASED:

RFID reader, RFID sensor, LCD display, shopping Basket.

- ACT COMPLETED:

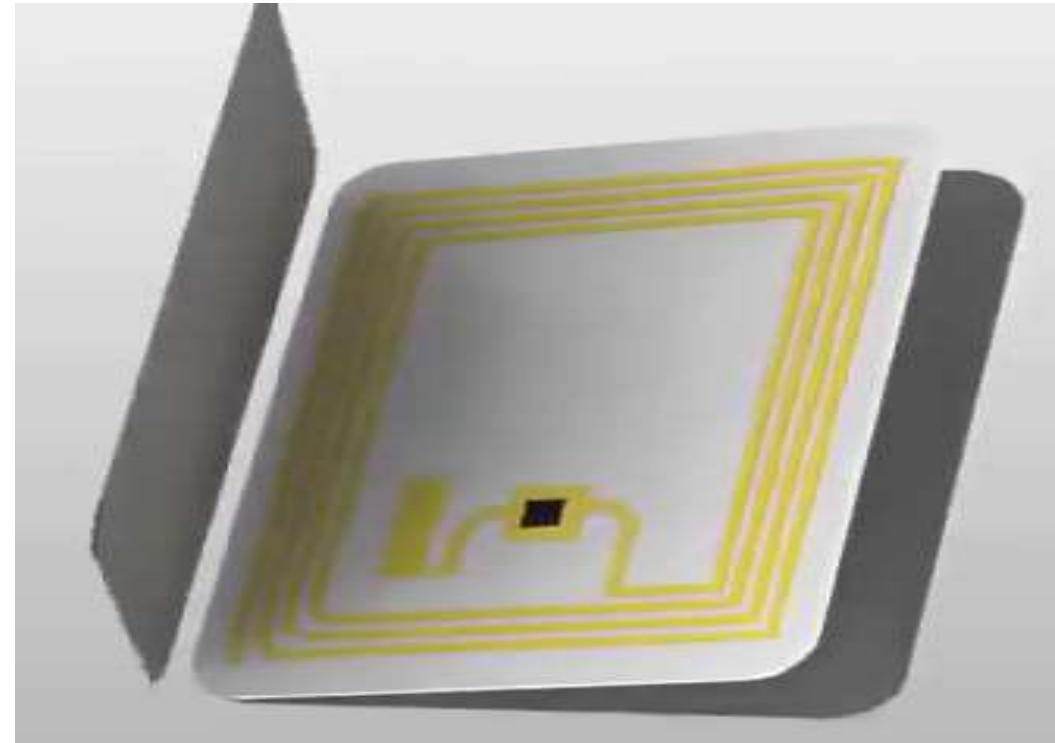
Started with eclipse coding.

- YET TO COMPLETE:

integrating components.

- TIME REQUIRED TO COMPLETE:

4 months.



RFID tag

COMMERCIALISATION

- The final product is shopping basket.
- It targets customers in the supermarket.
- It is mainly focused in supermarkets, malls.
- The cost of single product is Rs.19,250.
- Per month 5 products are manufactured.
- Maintenance: 6months free service.
guarantee of 1year.
- Current market strategy: bar code readers are being employed which leads to long queues and lack security.

CONCLUSION

- Other available market products has potential to carry only goods and bill at counters whereas, smart shopping basket has ability to bill the customer's own product.
- It saves customer's time during shopping.
- It increases the service in super market thus it helps in the country's over all development.



COMPANY REGISTRATION DETAILS

- Company name: “BASKET DECORS”

- Members:

S.Priya

Manisha.G.Nath

Vijaybhaskar.J