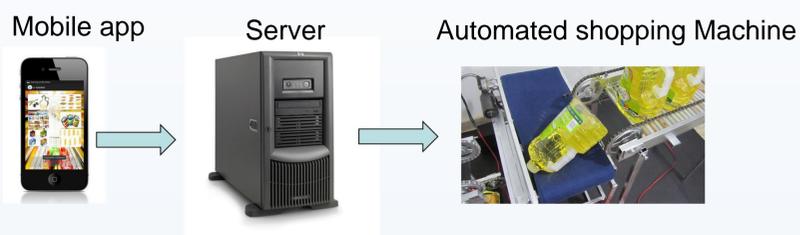


◆ Abstract

In this project, my objective is to automate the shopping system by implementing an automated machine that take the orders from the client through mobile application and prepare it to be delivered to the client thus saving shopping time and effort.

◆ Design

The system is decomposed into three main parts, the mobile application part which handles the client requests and orders. The server part which maintain the store status and updated status and finally the hardware machine which respond to the client request by delivering the order item.



◆ Hardware

To be processed on the machine the commands are received from the pc using two XBee transceivers one acts as a transmitter by transmitting the control commands from the pc and the other as a receiver since it receives the commands from the pc.

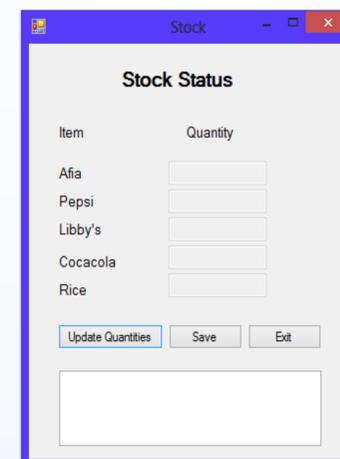


RF Sensor Pushing Chain

◆ Administrator Interface

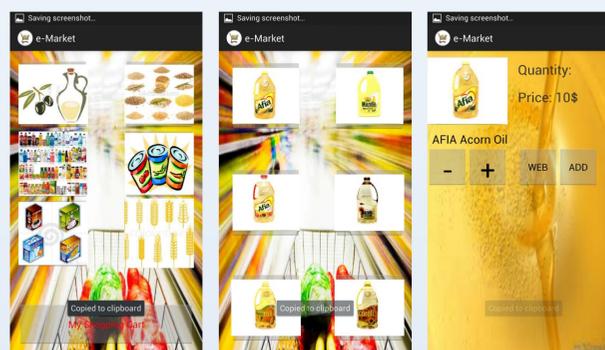
There is an administrator interface that maintains the store state.

Server



◆ Mobile Application

The mobile application starts by displaying the food categories found in the shop by pressing on a certain category a new page will open displaying the items under the selected category.



◆ Future Work

The system can be included in different industries such as the pharmaceutical industry to cover twenty four hours and seven days support to the client needs by accessing the correspondence mobile application to include the doctor prescription that written in electric format gives the permission in the emergency cases to a client to buy certain medication outside the pharmacy duty. Moreover, in the rural areas this system very beneficial for instance, the system can be placed inside cabinet and distributed besides the metro stations, the gas stations, the desert compounds not only to include food but also other items.

◆ Conclusion

Consuming time and effort every time people go to shopping centers derives me to think of a solution that facilitates this task thus making the shopping activity simple feasible and profitable. It makes simple since it reduces the time every one spend inside shopping centers. Feasible since it can be accessed from anywhere anytime and profitable since it allows the shopping centers to separate full times without the need of extra manpower by implementing the derive through concept among the shopping centers. This intelligence system is meant to help both the client and the suppliers thus automating the shopping tasks.



Upper Box Item

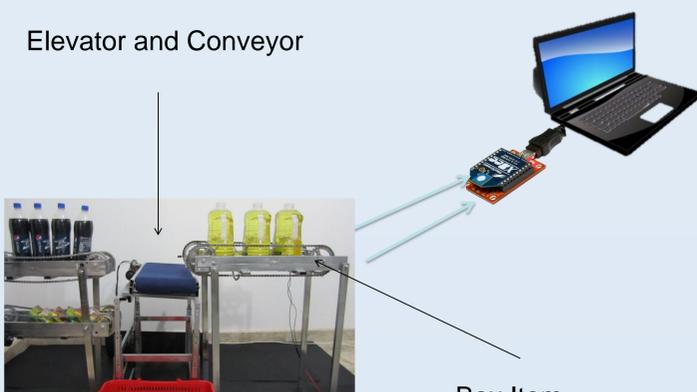


Lower Box Item

Motor

Elevator

Elevator and Conveyor



Box Item

