

4. FINAL DESIGN SPECIFICATION

The idea that came to mind during the first semester is to create a machine which attracts people to use it. So, the group came up with the idea of a machine which awards users a promotional code in which can be used in different shopping outlets after the user inserts a certain number of recycled items. The changes that have been made since the first semester that the machine now takes two bottles instead of three to give the award, the machine will use a proximity sensor instead of flex sensor and finally the sound that is suppose to be generated after the promo code is given has been removed.

The functionality of this system is to have a sensor which can detect the recyclable bottles or cans and after two bottles or cans are inserted the user will press the push button so the output which is the promotional code can be displayed on an LCD. Lastly, a motor is used which will open and close the dust pin where the bottles will be collected. Figure 4.1 shows a flow chart of the functionality and a sketch up design that was made of the machine.

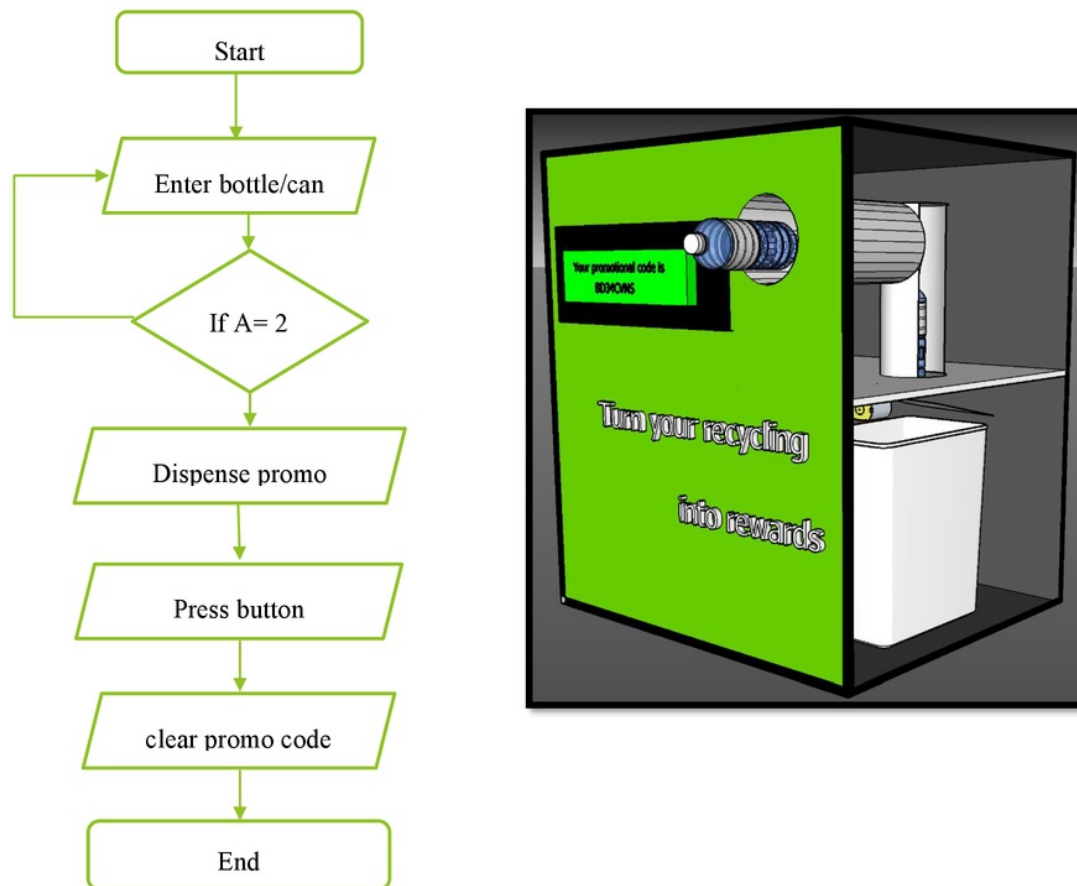


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