**CHAPTER IV**

**SUMMARY, CONCLUSIONS AND RECOMMENDATION**

This chapter starts with the summary of the design project, the conclusions based on the results acquired, analyzed and interpreted data presented in the previous chapter, and lastly it contains recommendations for better improvement of technology as well as for further research.

4.1 Summary

The world is constantly changing technological advances, innovative ideas and creative inventions that pave way for the people to embrace the use of electronics in the field of technology. Technology now is being a necessity in our everyday life as it becomes our need and want. The researchers conceptualized the design project after relating both needs and wants satisfaction at the same time. Major daily needs like food, water, sanitation care that people won’t live a day without it and taking medicine as the basis to rely on as many people around the world consume it every day as a cure, diagnosis and prevention in disease. The demand for medicine increases each day as looking for a more convenient way of acquiring it. In line with this, the researchers would only focus to those medicines that are intended to cure basic illness that are most consumed and are bought at affordable prices. These are OTC or over-the-counter drugs or drugs that are sold without prescription. Through additional observation, research and consultation, the researchers came up proposing the design project entitled “**The Development of Over the Counter Vending machine Using Microcontroller”**.

4.2 Conclusions

From a lot of types of vending machines, this project aims to introduce a new vending machine that provides official receipt and serves convenience and accuracy. The machine uses innovative features that you cannot see on common vending machines, cheaper components and developed system.

4.3 Recommendation

After the researchers carefully examined the functionality and usefulness of the development of over the counter medicine vending machine whenever someone needs first aid medicines in convenience store and as for the maintenance provider, the machine will automatically text the maintenance provider if the machine is running out of medicines. The researchers recommend that the touch panel be replaced with a bigger display, also the machine must be integrated with currency detector so that the machine will accept paper bills.

A coin sorter so that the coins that are inserted in the machine will be sorted by its type. The researchers recommend that the future developers must add prescription medicines with real time video call with a certain doctor and pharmacist to ensure the legitimacy of the prescription then the machine will dispense the medicines during the conversation.

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