Final Project Title

IOT102-SE18xx, Group x

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Abstract

Statement of the purpose of your study the research methods/methodology used to arrive at your results and/or conclusions the results observed the conclusions drawn from your study.

I. Introduction

Introduce the reason for choosing the topic, briefly present the objectives and content of the topic [1]. *This is an example of a citation.*

II. Methods and Materials

A. System Model and Block Diagram

Draw a block diagram, explain the function of each block and how data is exchanged between blocks.

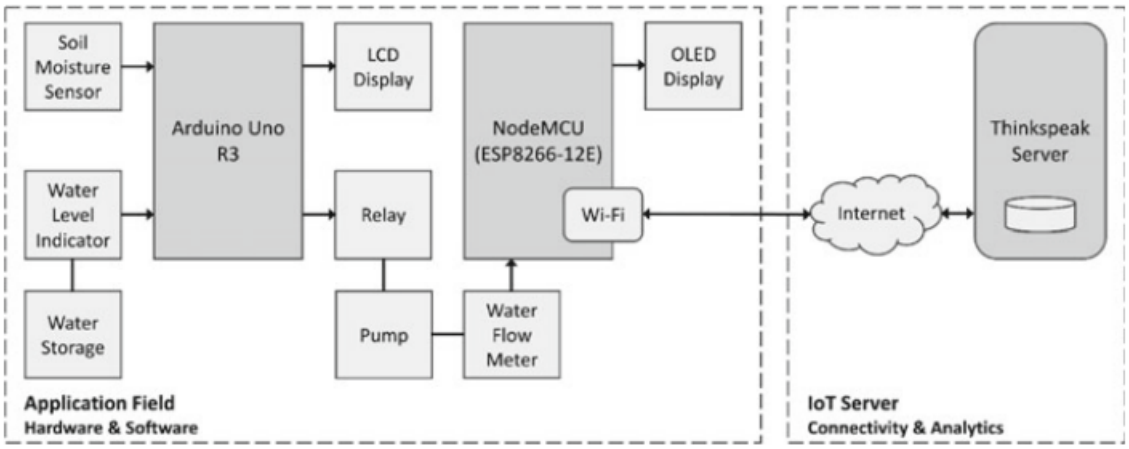

Fig. 1. Block diagram of the developed system.

Used https://lucid.app to draw the block diagram and save it in pdf format.

B. Components and Peripheral Devices

List all main components used in the developed system. Explain the functions and how to use the components in developed system.

TABLE I
Interfacing between Arduino Uno (or ESP8266) and Its Components

Arduino Uno	Soil moisture sensor	LCD display	Relay
GND	GND	GND	GND
VCC(5 V)	VCC	VCC	VCC
A0	A0 (anode)		

Use https://www.tablesgenerator.com to create a table online and generate LaTeXsource code for it.

C. Software Programming

Explain how to set up the IoT platform interface connecting via WiFi/Bluetooth and how to set parameters. Moreover, explain the functionality of the program used for Arduino Uno or NodeMCU ESP8266.

D. Programming Flowchart

Draw a flowchart and describe the data input and output, data processing process in the developed system.

III. Results and Discussion

A. Prototype Implementation

Describe how to implement the developed system in practice.

B. Experimental Results

Include illustrative figures showing the system's operations in different scenarios. Give comments on the results in all figures.

C. Discussion

Give some discussions about the overall results, the advantages and disadvantages of the developed system.

IV. Conclusion

Give a clear and concise description of the project's outputs and the future directions for improving the developed system.

References

[1] M. Tellez, S. El-Tawab, and H. M. Heydari, "Improving the security of wireless sensor networks in an iot environmental monitoring system," in *2016 IEEE systems and information engineering design symposium (SIEDS)*. IEEE, 2016, pp. 72–77.