

MEMO

Name: Jayaprakash Ginjupalli

Subject: Project 3 memo

The objective of this project is to build a system by fusing hardware and software. The DHT11 sensor, which can measure temperature and humidity, will be used by this gadget to keep track of the humidity level in a house. The 16x2 LCD display will show the humidity percentage and safety rating (Ideal, Fair, Harmful). When humidity levels fall below 25% or climb beyond 75%, the buzzer device will constantly emit audio signals until they are safe, or until the user manually mutes it using the onboard user button. The goal of this research is to develop a tool that guards against the negative consequences that could arise from low or high humidity levels that go unnoticed. So far I made a plan to complete the project and implemented some variables that help to detect the humidity with the DHT11 and display it on the LCD. I am yet to develop the buzzer and the reset option so that the buzzer buzzes when the humidity goes higher or lower than the recommended level and also displays the warning sign on the LCD. I should also include the code for the keypad from the previous project to reset the buzzer and also to set the safe humidity level for the environment. I should develop variables like void sense, void display, and void audio to work from the DHT 11 input. I forgot to add the keypad part to my plan because I was unaware of the fact that the keypad should be included in the project so I am still figuring out what to do with it. Once I am all set I will include the keypad in my initial plan and complete the project. All in all, this project is going as planned. I only need to figure out the keypad situation and I am all set.