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| Project Name: SelfWateringPlant | | | | | | |
| Student Name: Jamie Gavina | | | Due Date: 11/14 | | | |
| Project Motivation and Overview:  To better understand sensors, and new components and how to obtain information on those components, to create an automated gadget that can be observed online over a dashboard.  Minimum Features:   * OLED displaying ALL readings with date and timestamp * BME sensor * Dust sensor * Finished look with use of Fuse makerspace * Dashboard useful for observing data live * Video demonstration   Desired Features:   * Add LED lights that indicate readings     Stretch Goal Features:   * Play a song when the plant is being watered * I want to make a whole monitoring system for my wife that she can monitor from her laptop or an iphone or ipad * Help my wife manage her ADHD | | | | | | |
| Anticipated Components:   * BME sensor * Dust sensor * Display * neopixels | | | | | | |
| Concerns and Considerations (Project Risks and Potential Mitigations)   * Time management, it was crunch time for me last project I hope this one goes smoother but I got sick so I hope that I still do well. * Finding good sources and good code to use | | | | | | |
| Other Information:  I’m thinking that I might expand on this project for my capstone to help my wife manage “the collection” of plants she has, the idea would be that I could program for different types of plants as well, for instance tropical plants need a lot more humidity, but don’t need to be watered as frequently as other plants, and succulents don’t need water often at all and require lots of light. | | | | | | |
| Project Implementation Timeline: | | | | | | |
| Tasks | Day 1 11/11 | Day 2 11/12 | | Day3 11/13 | Day 4 11/14 | Day 5 11/15 |
| Finalize Project Plan | X |  | |  |  |  |
| Coding/wiring | x | x | | x |  |  |
|  |  |  | |  |  |  |
| Any other printing for design |  | x | | x |  |  |
|  |  |  | |  |  |  |
| Video presentation |  |  | | x |  |  |
| presentation |  |  | |  | x | x |
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