

Senior Design Bi-Weekly Status Report; Fall 2021

Team Name: sddec21-08

Team Members: Daniel Phalen, Zachary Kauffman, Thomas Smeed, Walter Gilbert, Mason Gil

Report Period: 8/30-9/13

Weekly Summary

Accomplishments:

- DynamoDB setup
- Integrated into front end display
- Pulls in most recent sensor values for each module registered to the currently signed-in user
- Have part of daughterboard pc designed

Individual Contributions

| Team Member | Contribution | Weekly Hours for Fall 21 | Total hours for Fall 21 |
|----------------|---|--------------------------|-------------------------|
| Daniel Phalen | Working on the daughter board | 4 | 8 |
| Zach Kauffman | Working on front end module settings + downward communication (app to sensors) | 4 | 8 |
| Thomas Smeed | Working on daughter board | 2 | 4 |
| Walter Gilbert | Working on user preferences | 3 | 6 |
| Mason Gil | Building graphs, code refactoring, putting navigation together, setting up UI pages | 3 | 6 |

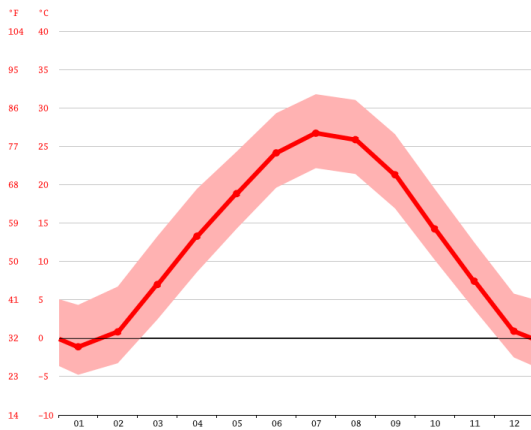
Pending Issues

None so far

Plans for Coming weeks

Software:

- Graphs for sensor history & fleshing out hydroponics system view page, setting up scheduling page, smoothing out UI - Mason



- Add new modules from the site (right now this is only done when publishing a MQTT message) - Zach

zk-garden-1
ztk@iastate.edu
Temperature: 6 °F
Moisture: 40 %
pH: 6

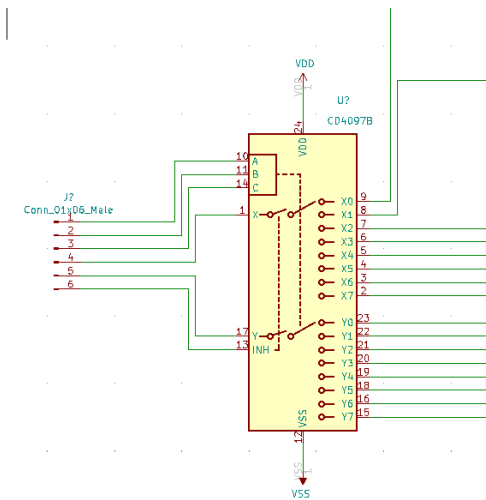
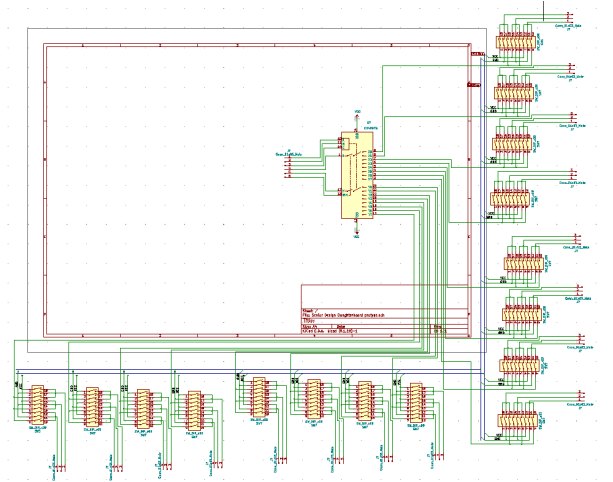
zk-garden-2
ztk@iastate.edu
Temperature: 32 °F
Moisture: 20 %
pH: 6

- Allowing people to change individual user preferences - Walter
- Scheduling

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Hardware:

Finish PCB Design - Daniel and Thomas



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