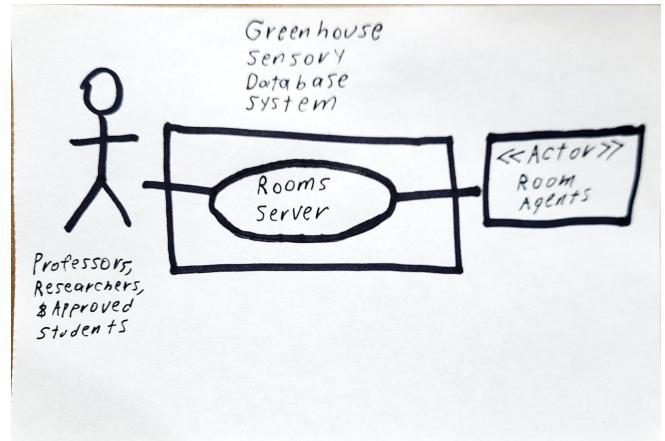
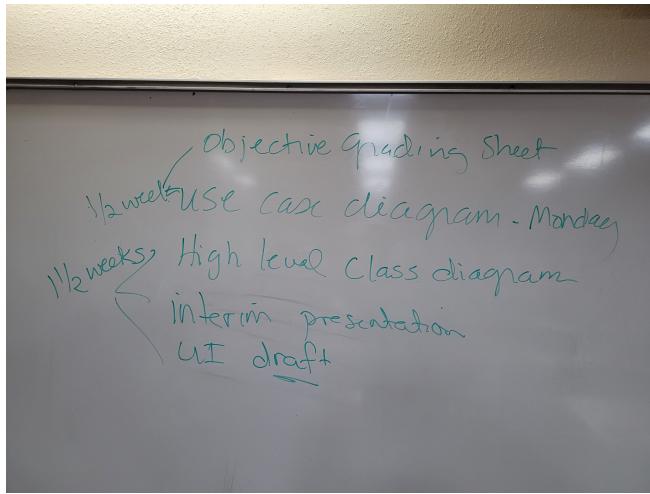
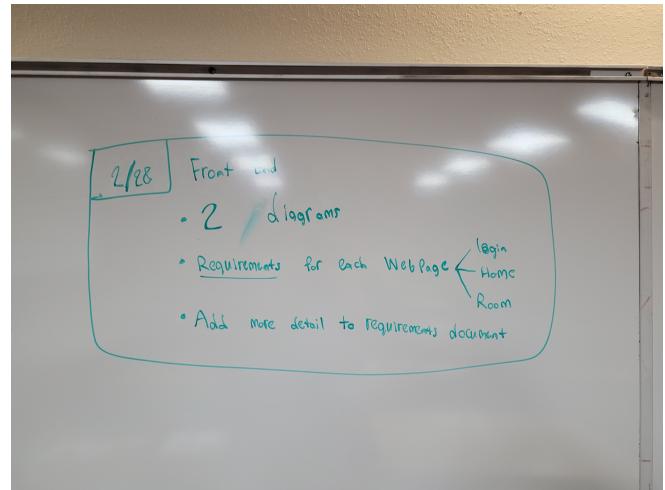
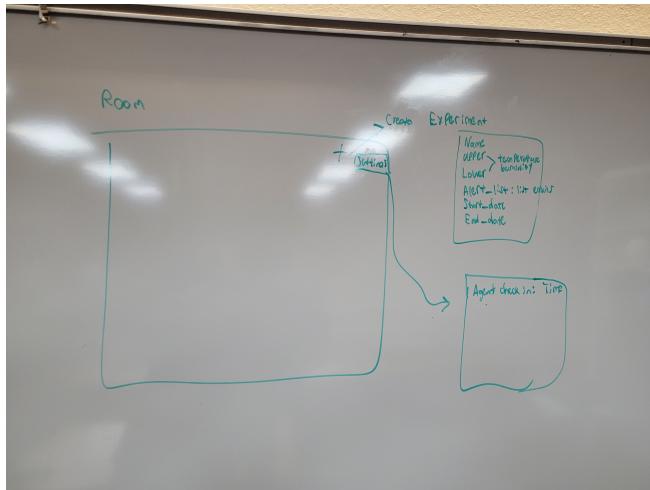


Meeting Notes for Greenwatch

2-22-2023 to 5-7-2023

Impromptu meeting photos 2-22-2023:



Top Left going clockwise: Class Diagram, Goals for frontend, rough timeline for diagrams, Rough draft of use case diagram.

Requirement Doc meeting:

Start time: 5:08

Date: 2/23/2023

Agenda: Revising Requirement Doc

5:08

- Sections 1 & 2 Discussion
 - Dropping Sunlight in as something kept track of (It is noted in a later section)
 - #Daniel 'June' Portillo will rewrite section 2 and complete Use Case Diagram

5:20

- Section 3 discussion
 - 3.4.1 Erased (Customer preferences)
 - 3.4.3 Created (Overview of User Interface)
- # Derrick to Revise 3.4
- # Edwin to Build Risk Table
- #Kolten to make Trello Grant Chart
- & Table of Hardware
 - Quantity
 - Name
 - Price
 - Purpose

5:32

- Future meeting discussions
 - Resolved to have shorter meetings two times per week over discord

5:37

- Meeting End (edited)

Design Meeting

Start time: 5:37

Date: 2/23/2023

Agenda: Design, Organization, and branding

5:37

- General Design Discussion that carries over most of remaining time

5:47

- # June assigned to refine the ERD diagram for the database

5:55

- Name discussion

6:00

- "Green Watch" as the designated name for the greenhouse project
- Logo Discussions
 - #June will work on the logo designs over next few days and send to Kolten for refinement.
- Technical Dificulties
- Raspberry Pi's and SD cards tested

6:25

- Technical difficulties resolved
- Initial raspberry pi tests successful

6:28

- Front end discussion & Collaboration
- Dynamic implementation of adding rooms was brought up
- Front end and backend Collaboration
- Kolten API Research and implementation

6:33

-meeting Adjourned (edited)

March 1, 2023

After class meeting 3-1-23

- Diagrams assigned
 - Garret Will make a UML Diagram
 - June Will make the ERD Diagram
 - Edwin and Kolten will make the Swim Length
 - Derrick will make the Discussion Tree
- Login page due this week
- Meeting sometime on Friday for further planning and Intirum Presentation

Meeting of 3-21-23, Meeting Start: 6:41

- June moved to work on backend and documentation
- Derrick and Kolten assigned to focus on Login Page and homepage
- Edwin discussed and brought up the barometric pressure and light sensor implementation
- Git use and difficulties discussion. More research required

7:03

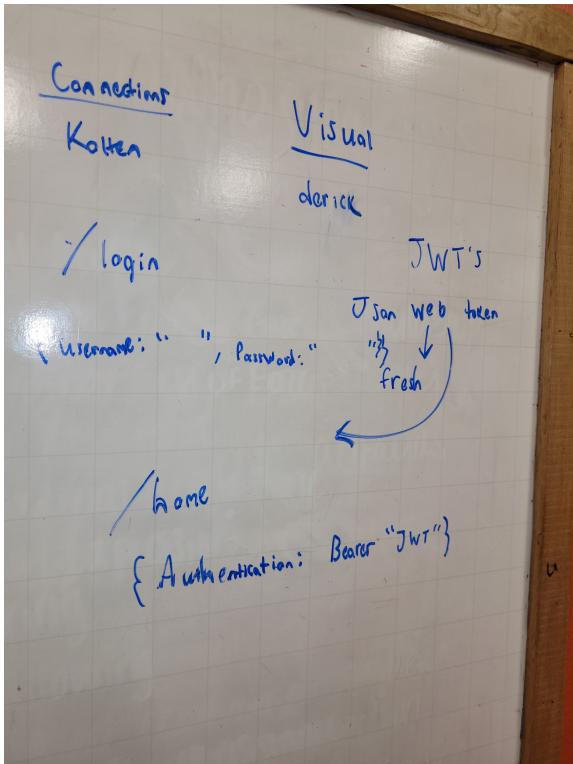
#DEADLINES FOR MONDAY 3/27/23 SET

- #Kolten: Login page that can authenticate; Connections
- #Derrick: Work on Homepage design
- #Garret: Make the Server functional (Bugs expected)
- #Edwin: Work on executables for the Pi, Build Installer, have it run as a background process, adding to startup, ect.
- #June: Github clean up and documentation

7:09

- User interface discussion
- Bootstrap discussion

- Latency for the JavaScript files discussed
- The HTML must be modified when it gets pulled
- JWT (Json Web Token) Discussion (edited)



Meeting End: 7:30

Class Meeting of 3-22-23, Meeting start: 1:50PM

-Review of yesterday

Meeting End: 1:53 (Lol)

Meeting 3-27-23, Meeting Start 2:21

#Edwin to get hardware working and cases done by Monday April 3rd, meet with June over the weekend to help prepare the cases

- about \$90 left in budget

- GUI and Hardware discussion

-Decision to prioritize in getting the GUI operational first before delving into how aesthetically pleasing the design is to be.

-Garret to test the Pis once they are operational

-API is now working for the homepage and login page is done

Garret to get the server done by Monday April 3rd

-Work on agents afterwards

#Kolten and Derick to get a Demo working for the Rooms page and Homepage done by Monday April 3rd

#Garret to talk to I.T. Sometime this week
#Garret to get Agents sometime by next week
##NEXT MEETING: Monday April 3rd##

After class discussion 4-4-23:

Meeting Start: 2:15

-Github Merge discussion of Frontend

-Design discussion on Room Page

-Discussion of graph design

-4 squares of display for each room, minimalistic display

-Possible export to google

Goal for this week: Get data working on the frontend & frontend layout ready.

Frontend goal for next week: Aesthetic designs of the frontend

-Issues with Pi Caseing

-The components do not fit effectively well within the casing (Wires too short and awkward placement of breadboard)

-API finished

2:30

-Latitude and Longitude implemtation brought up as a possible feature to help find local weather and have it as part of display

Next Monday Deadlines:

-{Derrick and Kolten} All data on frontend and connected with the API

-{Derrick and Kolten} All basic inputs and outputs

-{Garret} Agent to be done

-{June} Research user manual format and have a outline by Wednesday. Research development manual for the setup.

Next meeting this Wednesday. Meeting next Monday as well.

-Following couple of weeks should have executables done hopefully.

-Test plans start formulating next week

2:47 Meeting end

After meeting notes:

-Wifi/ethernet discussion brought up and clarified

-NO WIFI ON THE RASBERRY PI

-We are using ethernet and router

-Possibility of using funds for new wires to help fit all components into casing.

2:50 end of notes

Notes for In class Meeting on 4-5-2023:

Meeting Start: 2:06

-UI working by Monday + Graphs

#-Garret to work on Test Cases during next week

#-Garret to talk to IT

- Stringfellow joins in conversation and is willing to email Dr. Pegg to help set up a work order with IT for the purposes of installing the casing and for the Static IP address
- Frontend meeting tonight
- Agent and server interaction discussion
- Wire sensitivity discussion
- Case Discussion -> Working by Monday
- Overheating concerns brought up about the Raspberry Pis
- User Document outline discussed (Draft due by Monday)
 - Adding measurements, Hardware, and Agent and server management added to the outline

Meeting end 2:43.

Afterclass meeting (decided upon to be made more brief)
Meeting start 2:22

- Discussion to push back meeting to Wednesday due to difficulties encountered with hardware and UI.
- IT meeting Wednesday
- UI not finished
 - difficulties encountered.
- Case not finished -> Likely done by Tuesday
 - New casing selected
 - Screws not found
 - Finding screws for the pi hat prove to be very difficult
- #- UI team set to finish Measurements, Agents, Rooms, Messages, Experiments, Notes, and users by Monday.
- #- Test plans and test Cases done by April 14-17
- #- Final Date for Front End is Monday
- Presentation May 1st
- Different pages for Admin and user for the front end brought up
- Agent setup on boards and installing the casing should be done by the weekend
- Possible Raspberry Pi 4 Wifi solution brought up for the server
 - Security concerns brought up
- Server is done
- Overheating concerns brought up again by the backend
 - Decided that it should be good

Meeting end 2:48 (edited)

April 12, 2023

In class meeting 4-12-2023:
Meeting Start: 2:00

-UI discussion

- Modal Trubles
- UI run through
 - Graphs
 - Agents
- New casing shown
 - IT has a 3D printer we can use
- Logout button should be implemented
- We have to get a web domain
 - This is an IT requirement
 - We now have to make this a cloud service

Meeting end: 2:23 PM

[7:44 PM]

After class meeting in the Library 4-12-2023:

Meeting Start: 2:23

- Project responsibilities overview and progression
- Table of what needs to get done made
- Settings discusssion
- Login
 - 3 Password attempts still needs to be implimented.

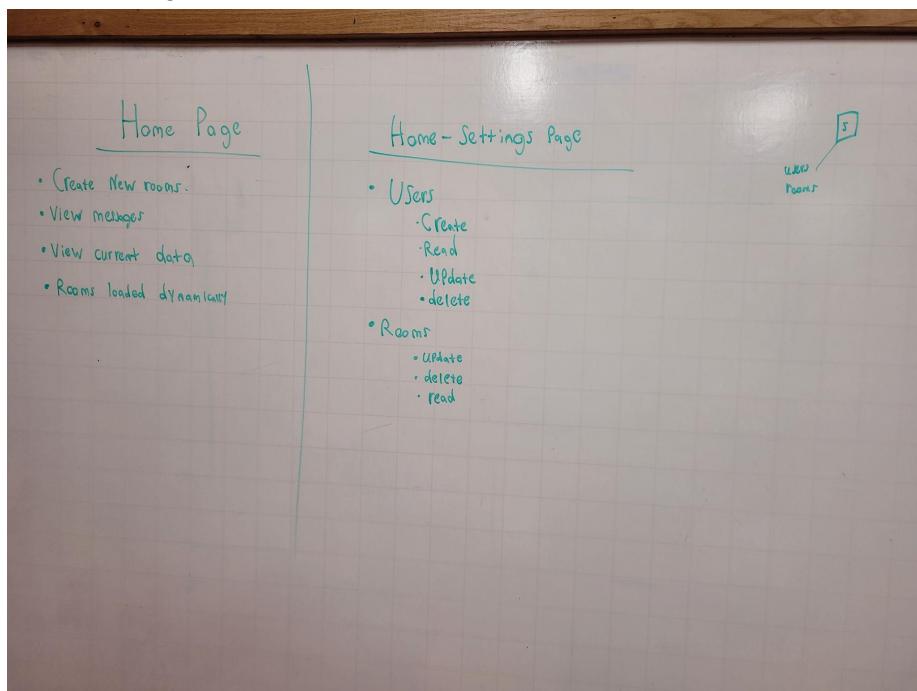
2:43

Home Page and Home Settings Page Discussion

-Home Page Design mostly done

#Derrik to focus on graphs and other elements

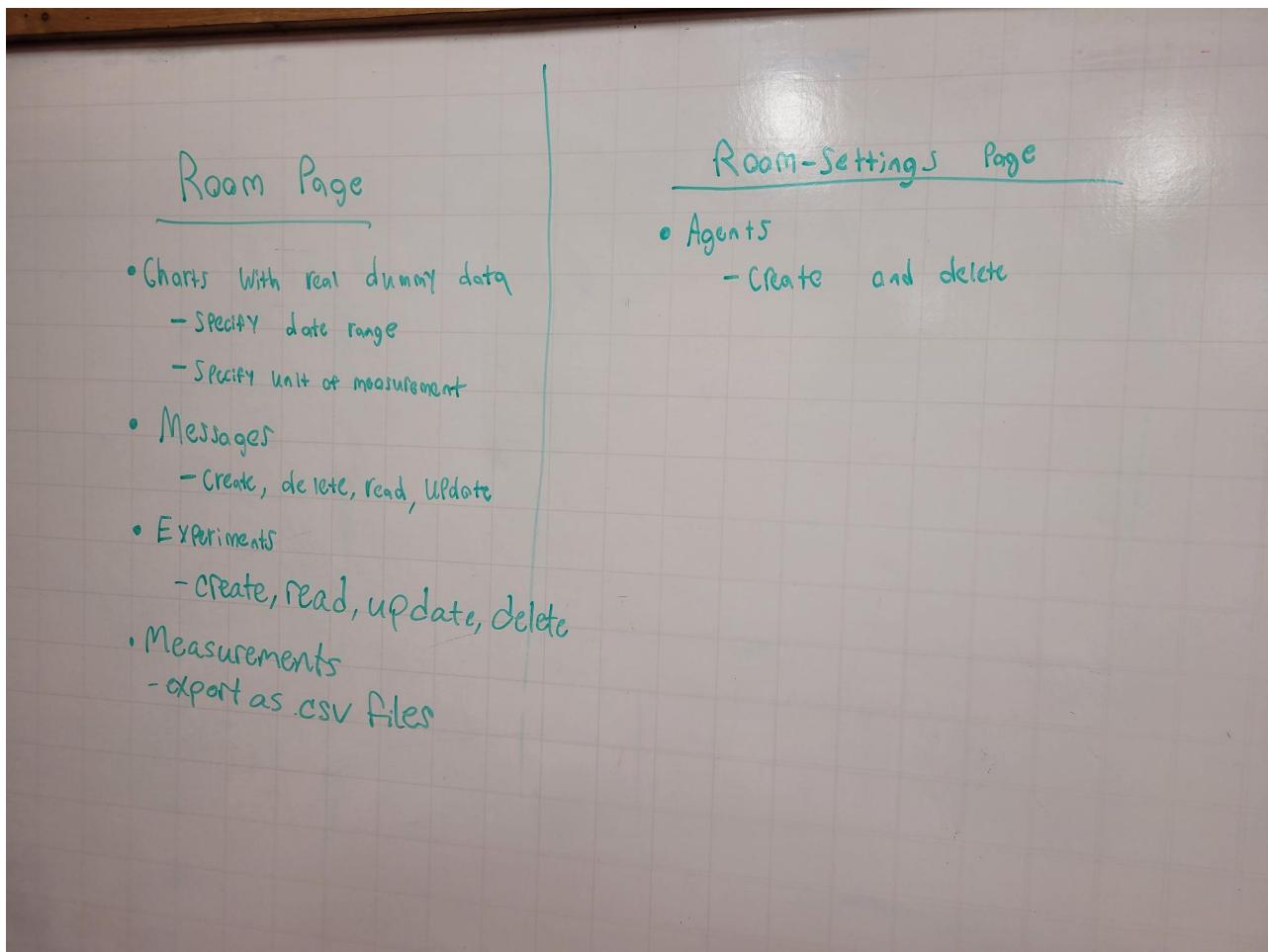
-About page discusssion



2:54

Room Page and Room Page settings Discussion

- Experiments (UI end)
 - Several fields need to be specified at creation
- Agent discussion
 - Agent being able to be deleted and created



#Agent must be reworked a bit

- Testing data from sensors
- Making sure it works

#Garret will test the Agent

#Derrik to get UI manual pages drawn up for Dr. Stringfellow

- User manual discussion
 - When UI is done, update the user manual

UI to be done by Monday

#June to format the test case document

- Backend test cases and agent discussion

#Edwin to meet with IT to see if they can 3D print similar cases for the boards

Meeting end: 3:20 (edited)

Meeting notes for afterclass meeting

4-19-23

1:52

-Homepage just about done

-settings page still needs work

-User manual still needs worked on

-Date-Time format discussed

-New API to be coded

-Raspberry Pi's to be set up

-Database will be on github to be accessed by the system.

-possibility of ordering 4th raspberry pi for a room brought up

-Test case discussion

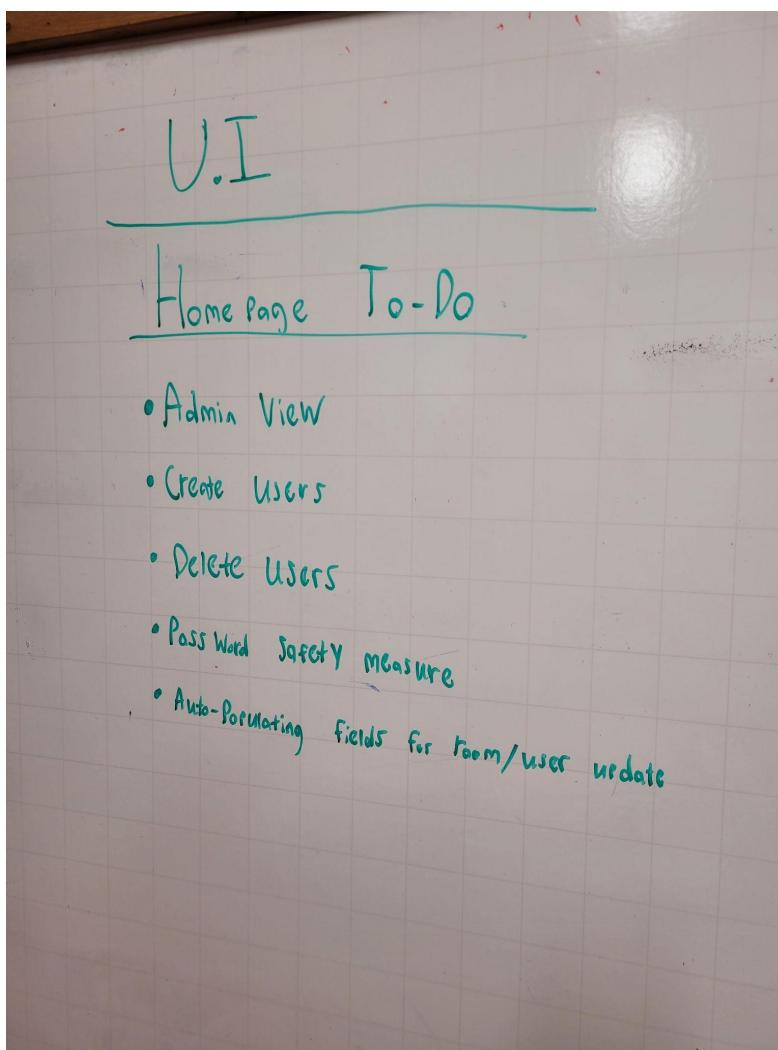
-Meeting friday after class

2:10

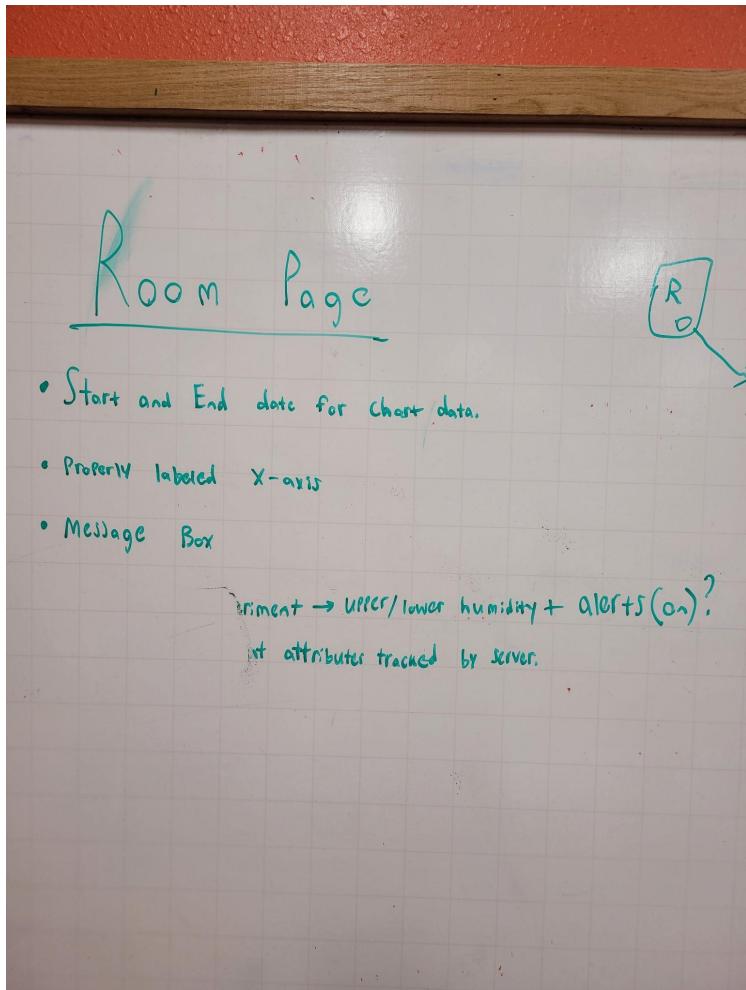
Meeting notes for afterclass meeting (Class ended short):

4-21-23

-homepage UI discussion



- docker file discussions
- 3D printing of the casing brought up
 - IT to be inquired about progress
- Room page discussions
 - Graph transitions brought up



(Erased portions above reads:

- Edits to add experiment -> Upper/Lower humidity +alerts (on)?
- View all experiment attributes tracked by server
- Ability to add/delete agent
-)
- Git Repo Reorganization brought up
- Templet CSS use discussion
- Experiments discussion on how it should be displayed and its requirements
- Agent discussion
 - Agent installation and option for manual configuration for temp. conditions interval
 - This would be scrapped
 - Interval will be hardcoded instead

3:25

#Edwin to write backend Test Cases

#June to write Login Page and Home Page test cases. Room page will be written later once it is finished

-Front end to create a fullscreen modal for experiments

#Kolten and derrick to continue working on homepage and room pages

-most of homepage should be done by tomorrow

-Agents -> router ->server on cloud ->User

-error checking discussion for frontend (i.e. passwords, viable names, ect.)

-Uncertainty of Alerts section being implemented

#Kolten to work on Homepage before moving on to help Derrick

#Derrick room page and experiments

-Backend test cases to test routs

-branch testing

#Gerrett to make unit tests

-User Manual to be made later after the system is done

##Setting up the website by Monday##

*##Everything done by Monday##

Meeting end 4:00

In class meeting 4-26-2023

1:14

-Documentation and user manual responsibilities brought up

#Hardware page to be finished by Edwin for monday

#Garett to work and finish agents +server

#Get Access from chris

April 30, 2023

Meeting 4-28-2023

1:00

-Responsibilities set

#Final changes to UI Kolten and Derrick

-Merge conflicts brought up discussed

-Hardware list for potential additions to the system and sensors brought up

-Atmospheric pressure measurements discussion

-Documentation

-key quote by team lead Garett, "If we had two weeks more we could do so much more."

- Fahrenheit vs Celsius dicussion

-possibility of adding display screen for temp. in the greenhouse

#Edwin to write up documentation for the possibility for adding solar panels as well as the hardware documentation in general

-Test Cases

- Kilten to work on frontend Test Cases
 - Garett to work on backend test cases
 - Kolten + Garret to work on presentation sometime this weekend
 - Usermanual
 - June for the frontend
 - Edwin for hardware
 - Garrett for Backend
 - Package up production before the end of Sunday (edited)
- May 3, 2023

Meeting notes 5-3-2023

Meeting Start: 5:08 PM

-Documents discussion

- User Manual
- Final Report

-Hardware document discussion

-end date shifted to monday by instructor

#Final Report

- everyone needs to write 1-2 paragraphs

#User Manual

-sections 3 and 4 (System overview and user management) to be done by June

-sections 1 and 2.2 to be done by Garrett

-Edwin to write section 5

#Everything is set to be done before Sunday so that it can be packaged together.

5:40

#Test Documents

-Frontend: Kolten and Derrick

-Backend: Garrett

-Hardware: Edwin

-security concerns with JWTs brought up among other concerns

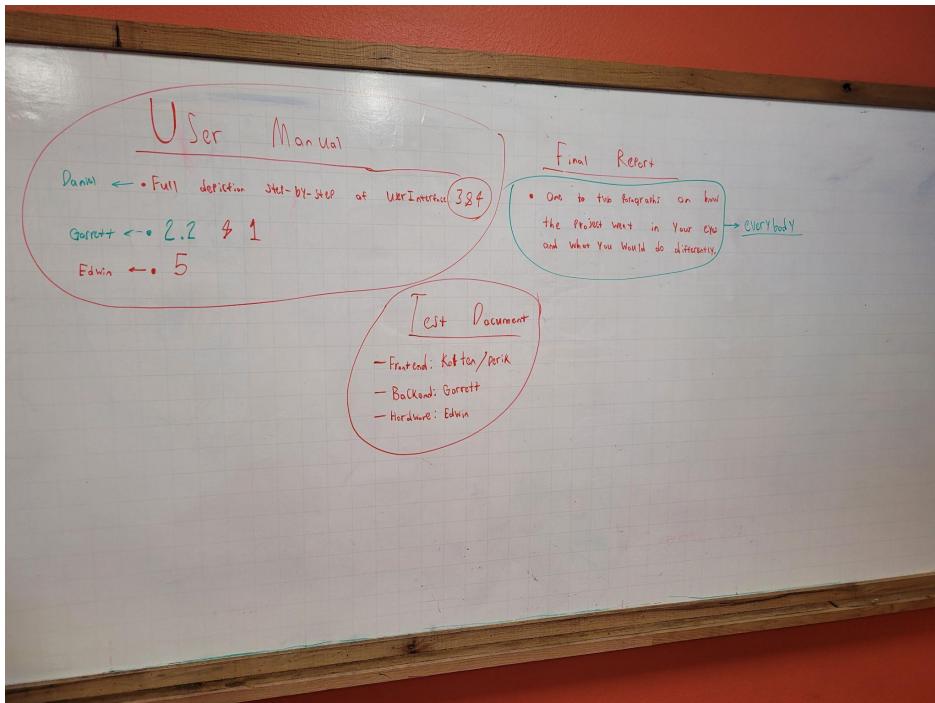
#Meeting Sunday at 6:00PM

[6:51 PM]

Meeting end 5:48PM

[6:52 PM]

Whiteboard during meeting:



Final meeting:

5-7-2023

Meeting start: 6:00PM

-User manual read through

-Brief edits made

-Objective evaluation made

-Deliverables discussion

-Farewars made

-It was a pleasure, gentlemen.

Meeting end: 7:23PM