Software:

-React Native: SE

-Tejal and Holden frontend and backend equally, Cameron and Blake assistance

Computer:

Electrical:

-3 sensors don’t exist

-Blake list of sensors rough notes

-Start with one sensor as a base case

-Add extra values later on

-Minimize possible points of failure early on (Cameron)

-Could start with humidity sensor (Holden)

-Or temp sensor (Chase)

-Instead of RasPi or Arduino, do a custom PCB with selected microcontroller and other components. (Chase)

-Blake: No batteries, wireless coms (WiFi), probes going into the pot from the main board / enclosure.

-Mod bus or CAN bus, could fab an extension of that for the microcontroller.

-Ask Maruf about the viability of a custom PCB microcontroller.

-RasPi as a prototype for testing, still work on PCB separately at the same time for same application.

-ModBus potentially as the main communication option, CAN bus as an alternative.

-1 central master, sensors as slaves.

-CAN bus experience is desirable.

-I2C for different components on a circuit

-Modbus for large scale, long distance

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Last Week:

Tejal -

Blake - Initial research on sensors

Cameron -

Cayden -

Holden -

Chase -

Next Week:

Tejal - Decide platform and rough sketch of frontend on Figma.

Blake - Backend refresh + sensor research + communication protocol research.

Cameron - Backend refresh + sensor research + communication protocol research.

Cayden - Meet as EE team, research microcontrollers and PCB components to include.

Holden - Decide platform and rough sketch of frontend on Figma.

Chase - Meet as EE team, research microcontrollers and PCB components to include + sensors.