Brittain Cooke
Grant Gannon
Oliver Sanchez

**Stories**

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**1)** Create a device that acts as a temperature monitor for a server room:

Features:

-Read room temperature using a raspberry pi and sensors

-Periodically record, store, and display current temperature

-Show status using an led light based on temp

-show current temp values on the device using the display

-Get humidity reading from the sensors

-AC Powered

-Connected by Wifi

**2)** Allow a server administrator to remotely view temps and interact with the device

Features:

-Allow an admin to SSH on to the device

-create a web app to allow users to view temperature and status

-allow admin to view system logs

-be able to dump output log

-be able to modify log(add, delete, move, and search)

-be able to add and remove users from registry

**3)** Setup an alert system for admins if temperature exceeds limits

Features:

-Send SMS text to admin when the temperature is out of range

-Allow admin to edit the thresholds for alerts

-Allow admins to edit the users to notify for these alerts

-allow admins to customise alerts, and alert messages

**4)** Create a case for the device to be contained

Features:

-Make a 3D printed case to accommodate the raspberry pi and associated peripherals

-House electronic components on a pcb to better accommodate case size restraints

-Case will allow for physical interaction from pushbuttons to device

**5)** Device must be able to perform adequately in atypical power conditions

Features:

-Device should be able to perform a safe shutdown in event of brown/blackout

-Device will reboot and log time it was offline for after a shutdown

-Device can send out message alerting admins of blackout and it’s recorded duration

-Battery backup to ensure it can shutdown during complete blackout