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# **Stories**

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 and store temperature
- -Show status using an led light based on temp
- -show current temp values on the device using a 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
- 4) Create a case for the device to be contained

## Features:

- -Make a 3D printed case to accommodate the raspberry pi and associated peripherals
- **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
  - -Battery backup to ensure it can shutdown during complete blackout