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## 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 and store 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

**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