Brittain Cooke

Grant Gannon

Oliver Sanchez

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

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