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Title: TempTor: Temperature Monitoring System

Description: For this project, we will design a temperature sensor system that will read the temperature from different sensors. These temperature inputs will be sent wirelessly to a web based user interface where various operations will be done with them. Some of these possible interactions include graphing the temperature versus time of each sensor, a color system to tell if sensor temperature is within a set range, and other later additions.

Vision Statement: To provide the easiest way to monitor temperatures in commercial equipment and display them in a user friendly format.

Motivation: To gain experience with Raspberry Pi programming and hardware assembly. To gain experience with Agile, Git, and different programming languages. Ability to test proof of concept for equipment temperature monitoring.

Risks:

Hardware

-Introductory level knowledge with Raspberry Pi

- Equipment availability and compatibility

Sensor programming

- Moderately skilled with Python programming

Web Interface

- Some teams team have entry level familiarity with Ruby on Rails

VCS: Git and Github

https://github.com/SullysMustyRuby/TempTor_sensors.git

https://github.com/SullysMustyRuby/TempTor_server.git