



A Summary of the Discussion at the Planning Meeting for Sprint 5

Overview of the Sprint

KitchIntel is now working on a smart oven. When completed, the smart oven will have eight sensors (four in the corners on the top of the interior and four in the corners on the bottom of the oven) that record the temperature. Ultimately, these sensors will report the information to a controller that will dynamically adjust the heating elements. Before that can happen, however, these sensors must report the information to a logging system so that the data can be collected and used to calibrate the controller.

Overview of My Commitments

Since the software development must begin now, despite the fact that neither the sensors nor the oven yet exist, I have agreed to design and implement sensor simulators and the logging system.

Details

1. Each sensor simulator must collect and report on the temperature of the oven simulator every 100 milliseconds,
2. Each report must include a time stamp and a sensor identifier.
3. Each sensor simulator must run in its own thread of execution.
4. Each oven simulator must have one logger that receives reports from all of the sensors.
5. The logger must occasionally (either based on the time elapsed or the number of reports received) write the reports it has received to a file.
6. Every report must have been saved to a single file before the oven simulator terminates.
7. No reports may be “dropped” (i.e., every report must be saved to the file).