Using Technology to Measure Adherence of Complicated Medication Regimens

Progress Report 7

Client
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Team Members
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Problem Statement
According to a recent study, almost 75% of patients, especially the elderly, do not adhere to their medication regimens for various reasons. This lack of adherence can prevent a patient’s recovery. Additionally, the present state of affairs is such that if a patient reports no improvement, a physician does not definitively know whether to try a different medication or whether the patient is simply not taking the medication regularly. To improve general health of patients assigned complicated medication regimens, we are to make a device that keeps a record of when a patient takes their medication.

Summary of Team Accomplishments
- Formed team and assigned individual roles
- Met with client and obtained project supplies
- Formulated problem statement
- Brainstormed possible designs
- Compile team members’ parts of the PDS and edit
- Create project website
- Meet with Professor Morrow to discuss possible solutions
- Research processors
- Obtained a microcontroller and corresponding development kit
- Narrowing down designs and design specifics
- Figured out concept of a switch matrix
Current Week’s Goals

- Research
- Work on mid-semester presentation
- Figure out details about how to use the micro-controller
- Research various switches that could be used
- Research specifics about a switch matrix

Project Schedule/Important Dates

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Difficulties: None to date.
Activities

Sujan
Mid-semester Presentation  4 hrs
Group Meeting  1.25 hrs
Meeting with Prof Morrow  .5 hr
Total:  5.75 hrs

Cara
Mid-semester Presentation  2.5 hrs
Group Meeting  1.25 hrs
Meeting with Prof Morrow  .5 hr
BSAC  .75 hr
Total:  5 hrs

Farshad
Mid-semester Presentation  1 hr
Group Meeting  1.25 hrs
Meeting with Prof Morrow  .5 hr
Total:  2.75 hrs

Nipun
Research  3 hrs
Meeting with Ranjith Kumar  0.5 hr
Experimenting with Micro-controller  1 hr
Meeting with Prof Morrow  .5 hr
Group Meeting  1.25 hrs
Mid-semester Presentation  1 hr
Progress report  0.25 hr
Total:  7.5 hrs

Team Total Hours for this Week: 21 hrs
Cumulative Team Hours to Date: 91.25 hrs

Expenses: None to date.