Using Technology to Measure Adherence of Complicated Medication Regimens

Progress Report 6

Client
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Advisor
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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

Current Week’s Goals
- Further research
- Narrowing down designs and design specifics
- Work on mid-semester presentation

### Project Schedule/Important Dates

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**Difficulties:** None to date.

### Activities

**Sujan:**
- Brainstorming: 1 hr
- Client Meeting: 1 hr
- Team Meeting: 1.5 hrs

**Total:** 2.5 hrs
Cara:
Research 1 hr
Client Meeting 1 hr
Total: 2 hrs

Farshad:
Client Meeting 1 hr
Meeting with co-worker 1 hr
Team Meeting 1.5 hrs
Research 1 hr
Internet Update .25 hr
Total: 4.75 hrs

Nipun:
Client Meeting 1 hr
Research 1 hr
Team Meeting 1.5 hrs
Progress report 0.25 hr
Total: 3.75 hrs

Team Total Hours for this Week: 13 hrs
Cumulative Team Hours to Date: 70.25 hrs

Expenses: None to date.