EE491 Weekly Report 7

Date: <u>10/18/16-10/24/16</u>

Group number: May 1717

Project title: 19 - Wireless Solar Temperature/Humidity Sensor

Client: Dan Stieler

Team Members/Role:

Yi Qiu - General Member

Xiang Li - Webmaster

Kebei Wang - Team Leader

Trevor Brown - Key Concept Holder

Kukjin Chung - Communication Leader

<u>Weekly Summary</u>

Past week accomplishments (please describe as what was done, by whom, when)

- Kebei Wang - Worked on project plan, post my information on the website.

- Trevor Brown - Made a block diagram of the hardware, ordered samples from TI of the

  power management IC

- Yi Qiu - wrote project plan, attend meeting and try to figure out method to measure

  power consumption

- KukJin Chung - Participated in the group meeting, finished the project plan, and

  prepared to build the circuit.

- Xiang Li —Participated in the group meeting, wrote the project plan. Analyzed and

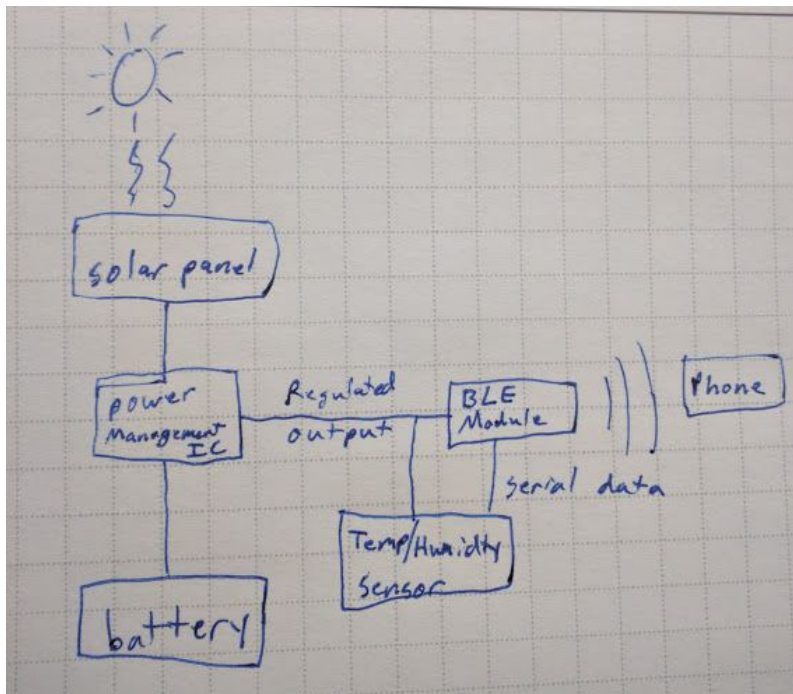 understood the circuit system by some research.

Pending Issues

- Testing other kinds of sensors which will be delivered.
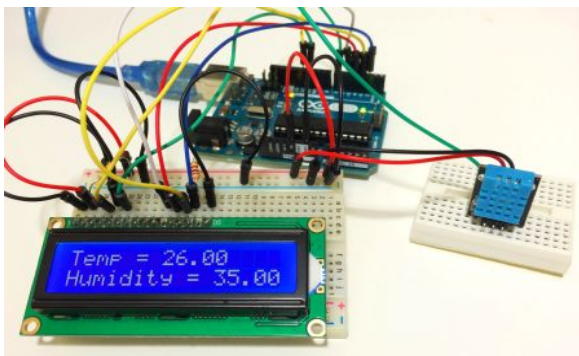
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Individual contributions

NAME	Individual Contributions	Hours this week	HOURS cumulative
Yi Qiu	wrote project plan, attend meeting and try to figure out method to measure power consumption	2	11.5
Xiang Li	Wrote the project plan, found the bluetooth development board, and participated in group meeting.	2	13
Kebei Wang	Wrote project plan, do research, contact with client and advisor for further appointment, attend group meeting.	3	13.5
Trevor Brown	Tested multiple sensors and measured the power consumption. Ordered more TI sensor samples.	2	7
Kukjin Chung	Finished the project plan and worked on MIT app inventor software	2	13

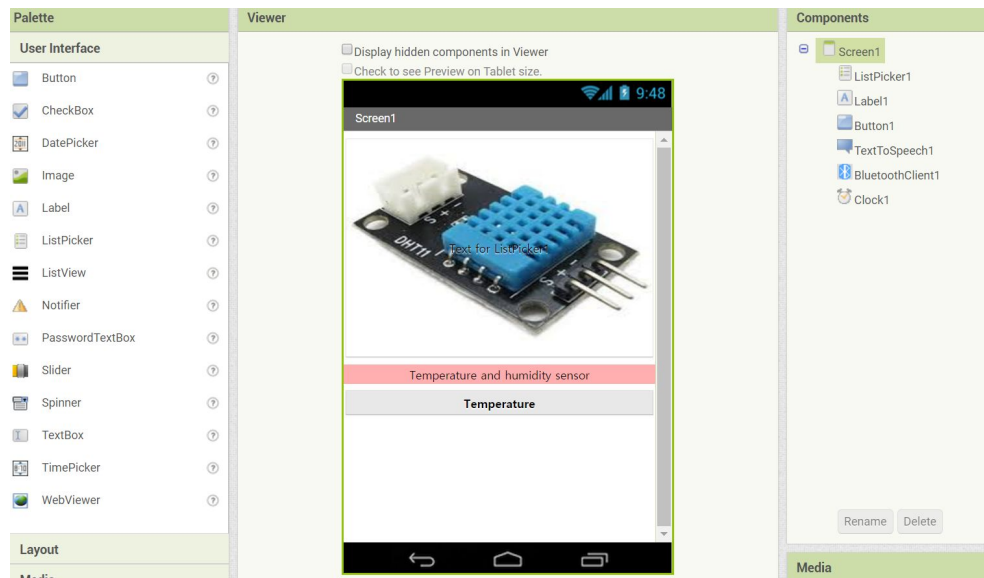Comments and extended discussion

Block diagram we got :

How circuit looks like:

MIT app inventor design (prototype)

Plan for coming week (please describe as what, who, when)

- Kebei W. do research and work on design.

- Yi Q. Continue update website, work on design doc

- Kukjin C. try to build android application by MIT app inventor and research on other
  software instead of MIT app inventor.

- Trevor B. Continue research on TI chips and compare power consumption.

- Xiang L. discuss with group members, and may order a suitable bluetooth development
  board. Test the circuit system.