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Internet Of Things Based Smart Village

First Progress Presentation:
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Submitted to:
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PROGRESS

General Progress

1. Connected Raspberry Pi to Internet using both Wireless and Ethernet.
2. Tested all the sensors provided. Temperature sensor to be ordered for suitable needs from eBay.
3. Installed necessary software in Raspberry Pi - Raspbian, Python Packages, LibreOffice etc...
4. Access Raspberry Pi using our Personal Computers & Display.

Warehouse System

This is the biggest module of the project (40%). Salient Features include:

1. Mining Prices from agmarknet.in on a daily basis and sending this information to Raspberry Pi.
2. Farmers can log in their produce.
3. Companies can buy the produce directly using a User Interface. When a particular crop has been bought, all the farmers who have contributed to the crop will be paid on a weighed basis. Payment is emulated through an eMail that is automatically generated by the system.
4. All activities are recorded and can be accessed whenever needed.
5. Remaining Stock can be viewed.
6. New farmers or crops can be added.

The whole system is implemented using Python and the interface between user and Warehouse is through the Raspberry Pi. Administrator is responsible for updating Prices on a daily basis by running a separate program that mines this price from the Internet.

Irrigation System

1. Found a way to obtain real time weather data and logging it on the Raspberry Pi.

Health System

1. Initial plan to use LM-35 sensor is dropped because of it's inaccuracies when used on human body.
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