Windows
Phone

Azure/Internet

Web Browser

Router

Light Sensor

Gas Sensor

Motion Sensor

Soil Sensor

Arduino

Coffee Machine

Lights

etc

Relay Board

Add Event
(Calendar)

Home Automation and Security

Windows Phone
(App)

Add Event Icon

(Leads to) ↓

Windows Calendar

↓

Set Event (and save it)

↓

Page has 3 check boxes

↓

1. Turn on lights

2. Start your coffee machine

3. Notify with a buzzer

↓

Send Data to Azure

↓

Ordered by date/time

↓

Send request to Ethernet shield (at scheduled time)

↓

Send corresponding signal to Arduino

↓

Lights, coffee machine and Buzzer starts (based on ticked check boxes)

Home Automation and Security

We have 3 things

1. Gas sensors   2. Motion sensors   3. Soil sensors

Readings of the sensors is send to Azure continuously   Indicates water level of soil

(24 hours active)

App retrieves the data from azure on a periodic basis

When gas/motion is indicated notification pops up   Arduino sends readings of

soil sensor to azure via

Ethernet shield

Mobile App retrieves

Data from database

(azure) continuously

Notification pops up

when % reaches 35 (additional)