Open Sesame

Minutes

25 March 2014

Meeting Leader: Veronica Martinez

Secretary: Jane McGuinness

1. Subsystems
   1. Door Status
      1. No changes

Will most likely implement on board using screws so user can easily attach variable length wires

* 1. Camera
     1. Progress on hold until server issues resolved

Considering requesting both types of servers so a faster check of ability to send picture to the internet can be done

* 1. Phone/App
     1. Meeting with Yaakov – 2 options for server setup
        1. Option A: web app using JQuery Mobile
           1. Node.js server in JavaScript
           2. SQLite database catalogs garage door activity & stores info 🡪 2-way HTTP communication with IMP

More scalable, more abilities

http will enable easy communication between imp and server

browser to server will be most difficult (communication through web sockets)

will set up server ourselves, can consult Yaakov for advice

don’t need to scrap previous work, just translate and add

server set up includes built in security options

user will access website through phone’s web browser, not an app

may still need an app in order to do the home wifi detecting approach response

assign additional people to help with the increased work load

keep all old material as a potential plan b to be switched to in early April if necessary

include a description of this method in final documentation regardless

* + - 1. Option B: web server takes a picture, stores it, & sends it out

Will request from Yaakov to allow us to confirm picture sending earlier

* 1. Wall Control
     1. PCB circuit design

Full hardwire implementation high priority to include on PCB

* + 1. RF option – on hold

1. Additional Items
   1. PCB board designs in progress

Must be completed by end of week – highest priority

Will include:

PIC connection

Wall wart power supply connector

Reset button

Door status resistors and screws (3) for user to connect switches

Electric imp “breakout” board circuit, built in (on edge for user access), need imp part designed

Camera connection (with necessary 5V power) and convenient angle/location

Wall control – probably screws (2) to connect to garage motor screws, also relays; potential bank of pins for possible RF option later (SPI, UART, I/O pins)

* 1. Need to update action items list to reflect next integration steps for next design review – design review date? –most likely early April (full demo is week of April 21st)
  2. Additional questions/concerns – getting website back up and running