

Dropbox, Twilio & Final Test

Rupa Dachere

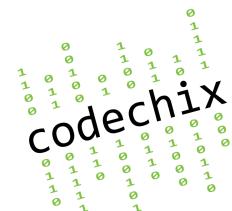
CodeChix @ PyCon 2014

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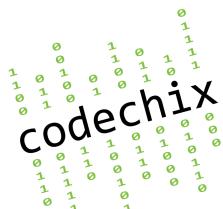
Dropbox setup – Part 1

- Browser:
 1. Create a Dropbox account
 2. Save your Account App Key and App Secret (need in Part 2)
 3. Create the Dropbox PiDoorbel App - <http://bit.ly/1ejyLp0>
 4. Call it “PiDoorbell-<your_name>”
 5. Got to “PiDoorbell-<your_name>” – this is where your snapshot will be uploaded



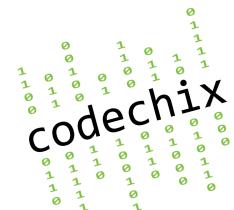
Dropbox Setup – Part 2

- Sudo apt-get install python-pip (needed for dropbox and twilio)
- RaspberryPi:
 1. sudo pip install dropbox
 2. cd /home/pi/PiDoorbell/
 3. mkdir -p dropbox-pidoorbell – this is where the local snapshots are stored
 4. vi sms_auth_info.py
 5. Copy/paste App Key/Secret into *DB_APP_KEY* and *DB_APP_SECRET* (use single quotes) – From Part 1
 6. ./dropbox_uploader.sh
 7. Enter App Key, App Secret
 8. Got to link specified by script on the browser and follow steps there to allow dropbox_uploader to access your App folder



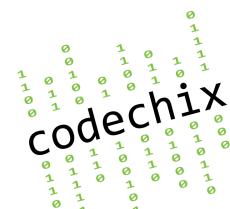
Twilio setup – Part 1

- Browser:
 1. Create a Twilio account
 2. Save your Account SID and Auth Token (need in Part 2)
 3. Get your Twilio-assigned phone number from Accounts->Numbers tab
 4. Note that by default you will get a paid account (\$0.02/sms)
 5. To get an unpaid account, contact Twilio for a developer account for testing purposes



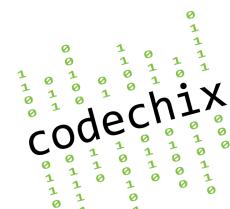
Twilio Setup – Part 2

- RaspberryPi:
 1. sudo pip install twilio
 2. cd /home/pi/PiDoorbell/
 3. vi sms_auth_info.py
 4. Copy/paste Auth SID/TOKEN into *account_sid* and *auth_token* (use double quotes)
 5. vi send_notifications.py
 6. Copy/paste your mobile phone number and your Twilio-assigned phone number (from Part 1), into the “to” and “from” fields in the function *send_sms()*
 7. “to” = your mobile #; “from” = Twilio-assigned #
 8. **Note:** Check twilio.com to determine country support and rates



End-to-End PiDoorbell Run

1. Make sure you are logged into Dropbox on your browser
2. sudo python pidoorbell-recognizer-gpio.py -i -mode sms
3. If needed, increase latency by setting the “-latency <seconds-to-wait-to-upload-to-dropbox>” flag
4. Trigger an object read (use hand etc.)
5. See photo being taken (camera should indicate via LED etc.) and stored in dropbox-pidoorbell dir (ls dropbox-pidoorbell)
6. See output log from script of photo being uploaded to Dropbox
7. See output log from script of SMS being sent to your phone
8. Verify receipt of SMS, click on URL and see your photo



Congratulations !!

- You have now built your very own PiDoorbell !!!
- Woohoo !!

Note: Please consider privacy issues when using PiDoorbell for personal use.

