

# Internet of Things (IoT) application

## Diseño e implementación de internet de las cosas IoT para el desbloqueo de lockers

### Features y tecnologías:

- Internet de las cosas. Intercomunicación entre microcontroladores, sensores, actuadores y dispositivos móviles
- Aplicación para microcontrolador RaspberryPi
- Aplicación nativa Android
- Procesamiento de imágenes con OpenCV
- Reconocimiento Facial
- "Serverless" app
- Aplicación en tiempo real

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### Source code:

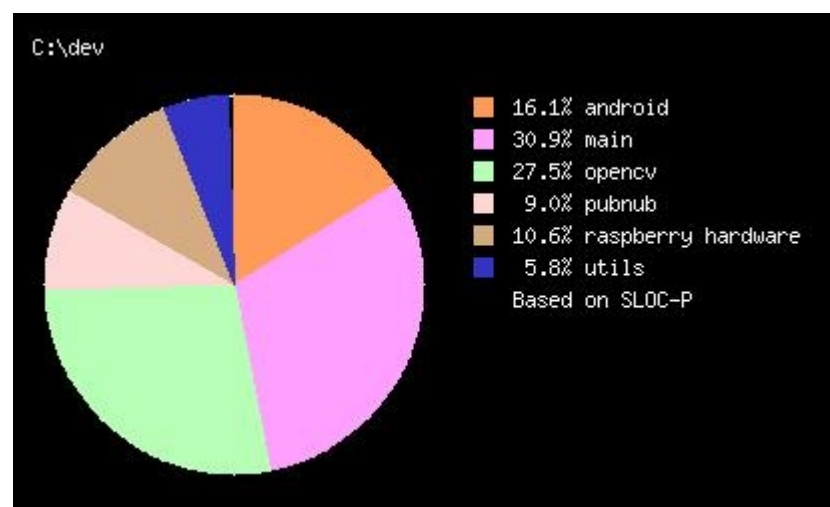
[https://github.com/festeban26/iot\\_application\\_lockers](https://github.com/festeban26/iot_application_lockers)

### Latest code update:

Jun, 2018

**Lines of Code (LOC): 1367**

## LOC REPORT



Overall		
Symbol	Count	Definition
Source Files	13	Source Files
Directories	7	Directories
LOC	1367	Lines of Code
BLOC	234	Blank Lines of Code
SLOC-P	1109	Physical Executable Lines of Code
SLOC-L	143	Logical Executable Lines of Code
MVG	111	McCabe VG Complexity
C&SLOC	2	Code and Comment Lines of Code
CLOC	24	Comment Only Lines of Code
CWORD	118	Commentary Words
HCLOC	0	Header Comment Lines of Code
HCWORD	0	Header Commentary Words

C:\dev - FOLDERS											
Folder	Files	LOC	SLOC Physical	SLOC Logical	MVG	BLOC	C&SLOC	CLOC	CWORD	HCLOC	HCWORD
Total	13	1367	1109	143	111	234	2	24	118	0	0
C:\dev\iot_lockers	13	1367	1109	143	111	234	2	24	118	0	0
C:\dev\iot_lockers\android	1	236	179	127	5	33	2	24	118	0	0
C:\dev\iot_lockers\main	1	396	343	7	42	53	0	0	0	0	0
C:\dev\iot_lockers\opencv	3	375	305	1	36	70	0	0	0	0	0
C:\dev\iot_lockers\pubnub	2	125	100	2	9	25	0	0	0	0	0
C:\dev\iot_lockers\raspberry hardware	4	146	118	5	10	28	0	0	0	0	0
C:\dev\iot_lockers\utils	2	89	64	1	9	25	0	0	0	0	0

C:\dev - FILES										
File	LOC	SLOC Physical	SLOC Logical	MVG	BLOC	C&SLOC	CLOC	CWORD	HCLOC	HCWORD
C:\dev\iot_lockers\android\AndroidBackup.java	236	179	127	5	33	2	24	118	0	0
C:\dev\iot_lockers\main\Main.py	396	343	7	42	53	0	0	0	0	0
C:\dev\iot_lockers\opencv\DetectFaces.py	52	38	0	5	14	0	0	0	0	0
C:\dev\iot_lockers\opencv\FaceRecognition.py	265	225	1	26	40	0	0	0	0	0
C:\dev\iot_lockers\opencv \TestFaceRecognitionOnPhotos.py	58	42	0	5	16	0	0	0	0	0
C:\dev\iot_lockers\pubnub\PNServerV1.py	62	55	2	6	7	0	0	0	0	0
C:\dev\iot_lockers\pubnub \PubNubUuidReuse.py	63	45	0	3	18	0	0	0	0	0
C:\dev\iot_lockers\raspberry hardware \buttonTest.py	25	18	1	3	7	0	0	0	0	0
C:\dev\iot_lockers\raspberry hardware \CameraExp.py	38	32	0	3	6	0	0	0	0	0
C:\dev\iot_lockers\raspberry hardware\Servo.py	51	43	4	1	8	0	0	0	0	0
C:\dev\iot_lockers\raspberry hardware \VideoStream.py	32	25	0	3	7	0	0	0	0	0

File	LOC	SLOC Physical	SLOC Logical	MVG	BLOC	C&SLOC	CLOC	CWORD	HCLOC	HCWORD
C:\dev\iot_lockers\utils \CropFaceAndSavePicture.py	52	37	0	4	15	0	0	0	0	0
C:\dev\iot_lockers\utils \EffectivenessDictionary.py	37	27	1	5	10	0	0	0	0	0