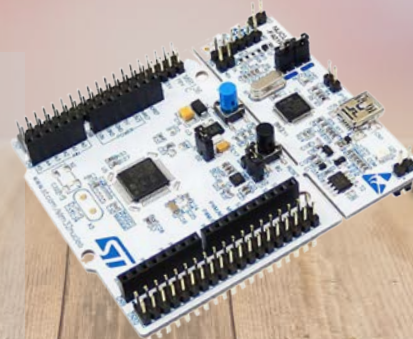
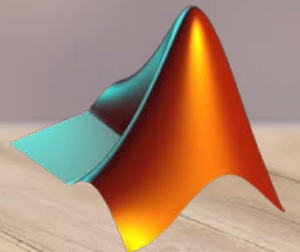
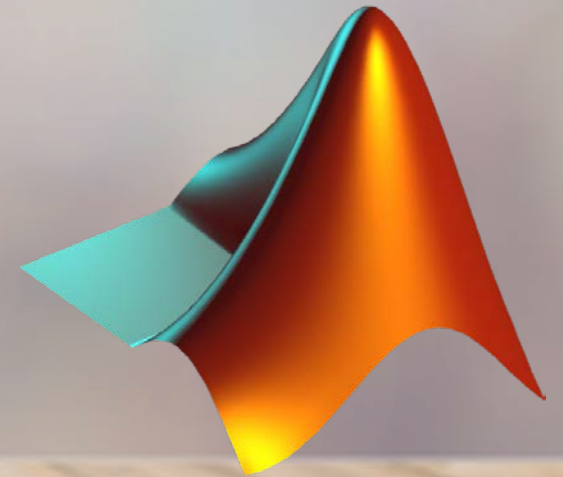
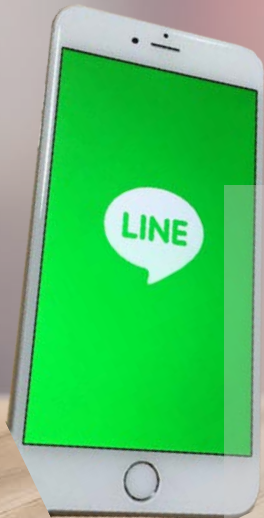




Hoykhom

King Mongkut's Institute of
Technology Ladkrabang

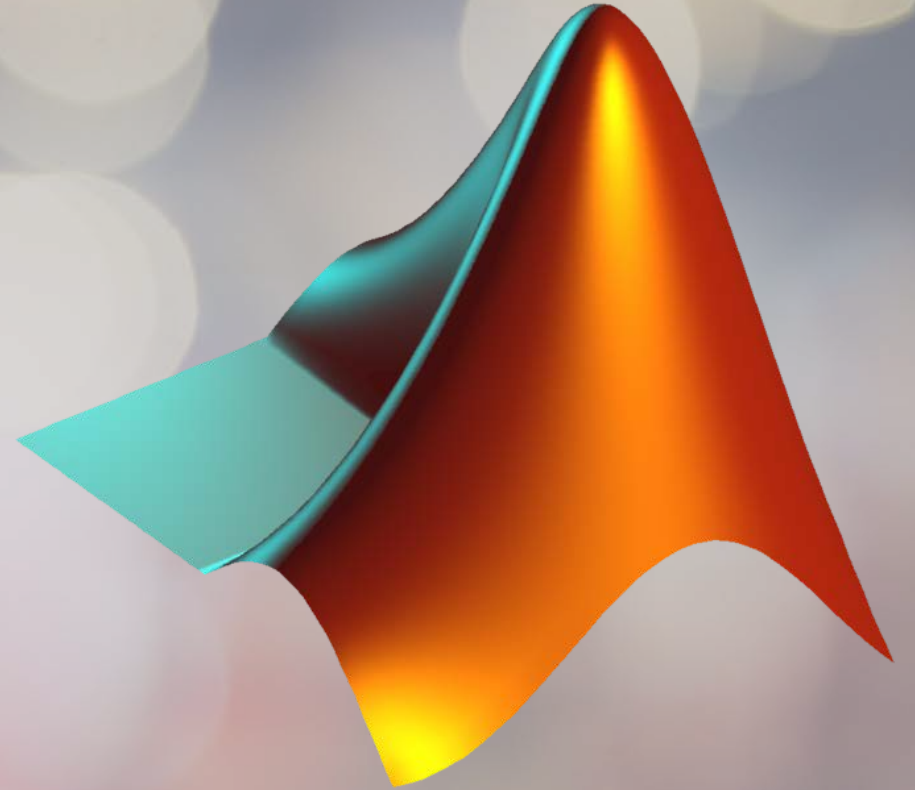




Push and reply



Data Analytics



Teamworks!



Teamworks! (1)



GIT <Bitbucket>

Bitbucket Teams Projects Repositories Snippets Find a repository...

hoykhom_pms

ACTIONS

- Clone
- Create branch
- Create pull request
- Compare
- Fork

NAVIGATION

- Overview
- Source
- Commits
- Branches
- Pull requests
- Pipelines **NEW**
- Downloads
- Settings

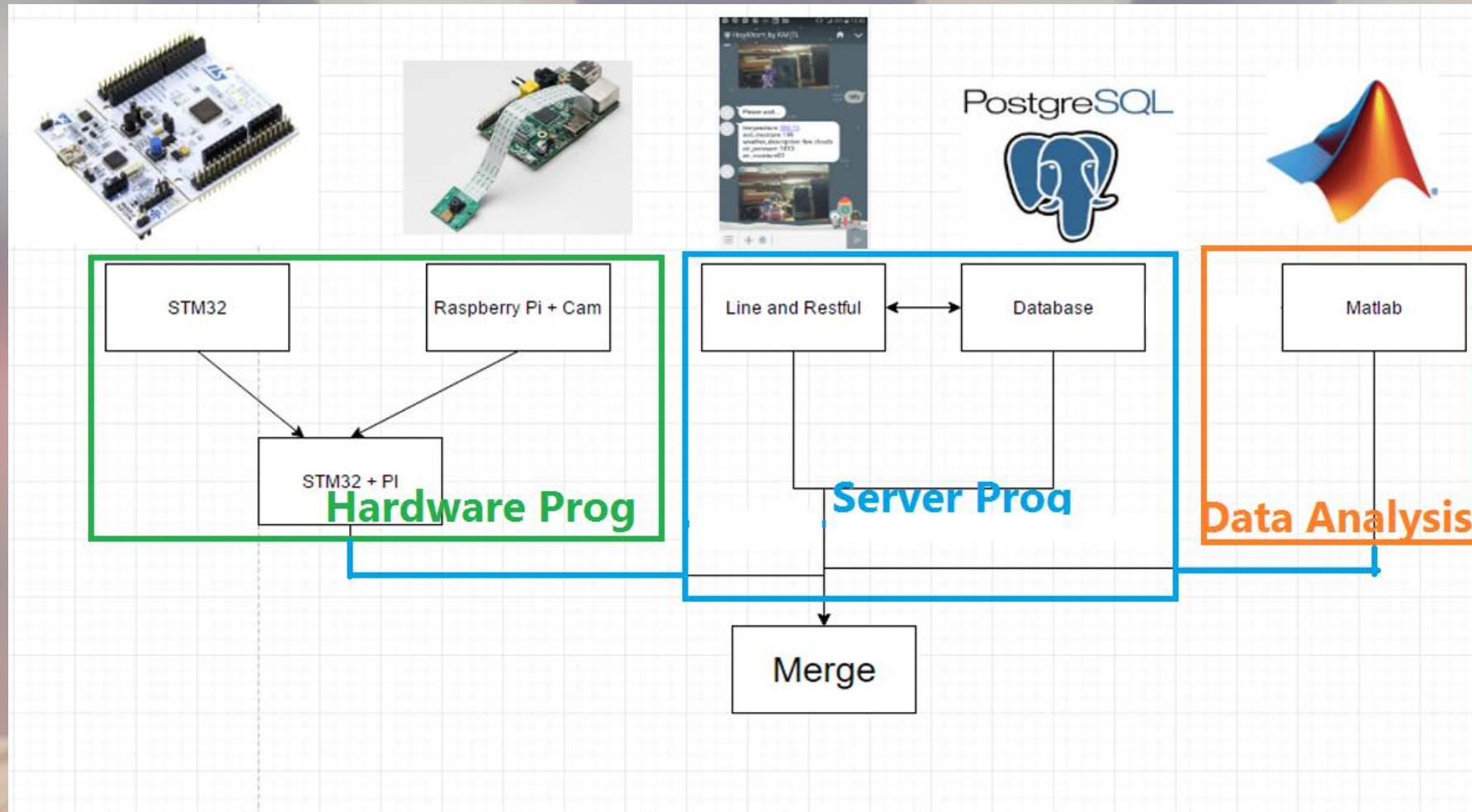
Hoykhom_KMITL / PredictiveMonitoringSystem / hoykhom_pms

Commits

All branches

Author	Commit	Message	Date
isaradream	59e3df3	Merge branch 'pistm'	2 minutes ago
isaradream	de8e1f0	commit 59e3df3ca422e363339b6e545fd8fddf570ba559 Merge: de8e1f0 11250c9 Author: Isara Naranirattisai <isaradream@gmail.com> Date: Fri Mar 17 03:56:09 2017 +0700	
isaradream	e5e68ce	Merge branch 'pistm'	
isaradream	ea029ab	commit 11250c9139f71fc0d4db98ac8129a43f80685d64 Author: ASUS-K501LX\sirid <Siridej_pao@hotmail.com> Date: Fri Mar 17 01:20:17 2017 +0700	
isaradream	e949c6f	feat: Start up with mqtt	
isaradream	719654c	commit de8e1f0471ed45d40c84185311e7a0f68246c277 Merge: e5e68ce e949c6f Author: Isara Naranirattisai <isaradream@gmail.com> Date: Fri Mar 17 03:54:22 2017 +0700	
_0x7E50616F	11250c9	fix: Merge conflict	
isaradream	51f59bc	commit e949c6f38ef401e7e0130efdfc3fb88d442a9be6 Author: Isara Naranirattisai <isaradream@gmail.com> Date: Fri Mar 17 01:22:31 2017 +0700	
isaradream	cf0197b	feat: Add underline on msg	
isaradream	35692b4	commit 719654c7ebd82147550268d6134b49f1e1e1f3b9 Author: Isara Naranirattisai <isaradream@gmail.com> Date: Fri Mar 17 01:21:07 2017 +0700	
isaradream	187bbf1	fix: Word realtime in unrealtime	
isaradream	f45a799	commit e5e68cee99ffdeac2c11e98c4285e751bfa924df Author: Isara Naranirattisai <isaradream@gmail.com> Date: Fri Mar 17 03:37:24 2017 +0700	
ธนิชชา แสงเพชร	c7a2ea1		
isaradream	aa53480		
isaradream	58e9670		
isaradream	b18e9ba		
_0x7E50616F	d6c1409		
_0x7E50616F	e284d5d		
isaradream	036ccaf		
isaradream	cfe7bdb		
isaradream	acad579		
isaradream	7260c4c		

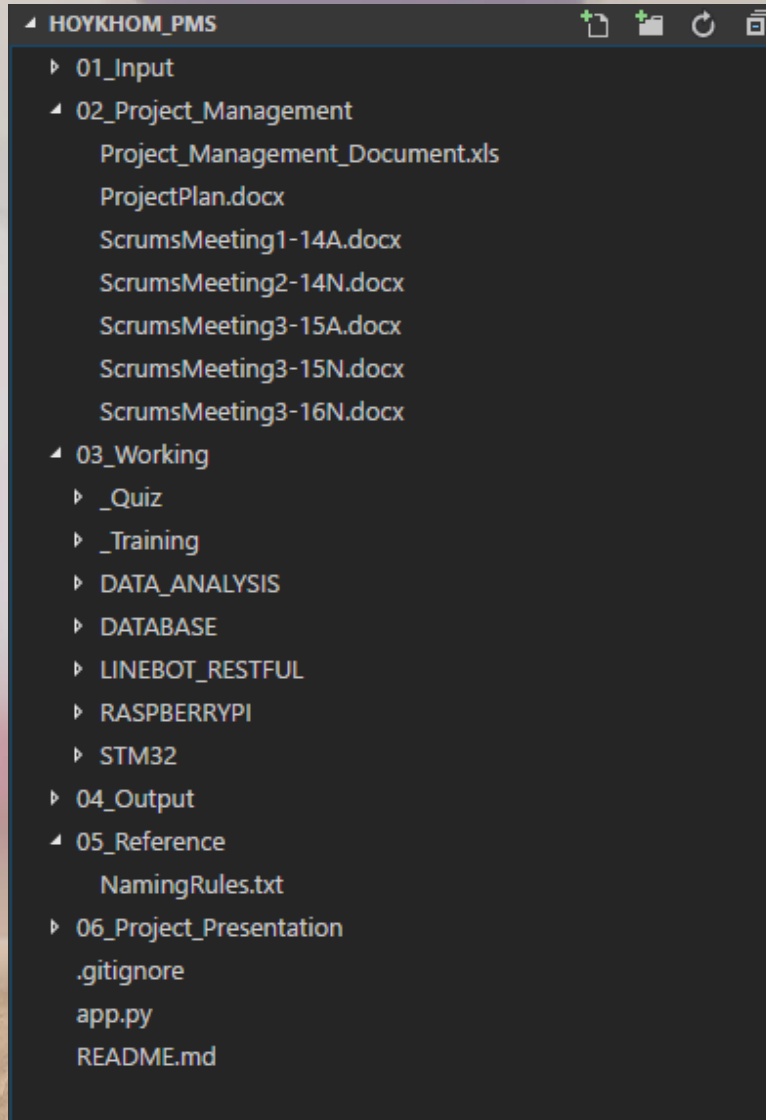
System Integration Strategy



Naming Rules

```
1  Filename:
2      Source Code:
3          {Device or Module}_{Function}.{Extension}
4          ex.
5              Stm32_ReadMoisture.c
6
7          *If that source code is main/core file use
8              main.{Extension} or app.{Extension}
9
10     Others:
11         {Description}.{Extension}
12         ex.
13             README.md
14
15     GIT:
16         .git and .gitignore
17
18     Scrum Meeting Log:
19         on "02_Project_Management" dir
20         ScrumMeeting{Number of Meeting}-{day}{A | N}.docx
21
22         {A | N} is 'A'fternoon or 'N'ight
23
24
25     Commit Message:
26         "{Option}: {msg}"
27
28     Option:
29         docs:      Documents
30         style:     Style code to more readable (space, PEP8) but don't change code
31         feat:      Features
32         fix:       Fix bug or any problem
33         refactor:  Refactor code
34         test:      Add test
35         add:       Just Add file or dir
36
37     msg:
38         - start with Uppercase(only 1st charactor) and then lowercase
39         - Recommend verb + noun
40
41
```

Directory Structure



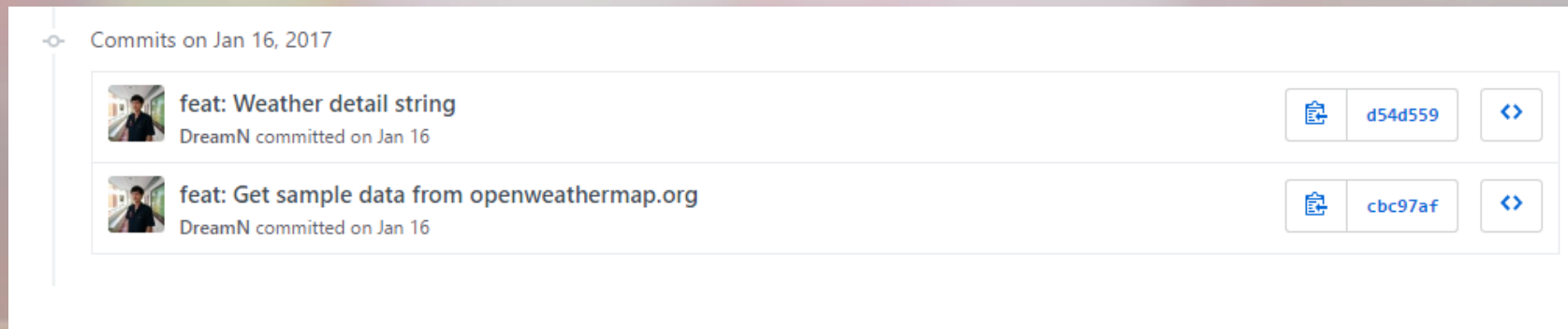
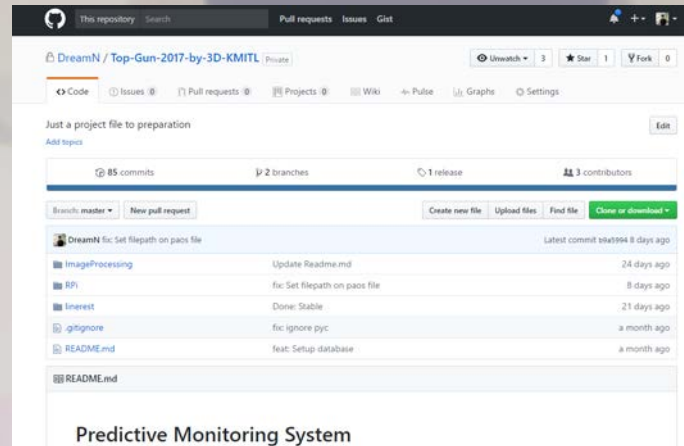
Work Breakdown Structure and Schedule

[illegible][illegible]

Before the
competition

Because It's our 1st time
for TESA Top Gun Rally...

We're practice so hard!



Over 80+ commits on github



Chuck Cobb, Agile Project Management Author, Mentor, and Instructor



Written Aug 23, 2016

It totally depends on the nature of the project. Many people might argue that Agile is the best methodology for software development and it does have significant advantages in most cases; however, saying "Agile is better than Waterfall" is like saying "A car is better than a boat". They both have advantages and disadvantages depending on the environment.

Agile/Scrum works best with projects that have high levels of uncertainty and require an adaptive approach. A plan-driven approach (what many people loosely call "Waterfall") works best in situations where the requirements are fairly certain and there is some need for predictability of project costs and schedules. And, of course, that is not meant to imply that there is a binary and mutually-exclusive choice between two extremes. There are many ways to blend an adaptive (Agile) approach with a plan-driven approach in the right proportions to fit the situation.

There is no "silver bullet" methodology that fits all possible projects and the right solution is to fit the methodology to the nature of the problem rather than force-fitting a project to some predefined methodology.







Chuck Cobb




Author of "The Project Manager's Guide to Mastering Agile"


Check out: Agile Project Management Academy


(<http://agileprojectmanagementaca...>)


Trello



Boards     **Isara Naranirattisai**  


HoyKhom by KMITL   Private Top-Gun-2017-by-3D-KMITL  Show Menu



Detail 





upload 2/6/2017 at 8:37:26 PM.png
 1

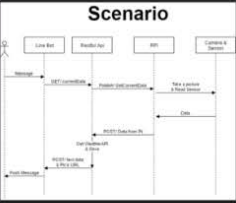
VM&Database
  4



Google Calendar





Github Repository
  1

Problem & Solution
  2


Scenario




upload 2/11/2017 at 9:05:11 PM.png
 1  5/9

Equipment Check List
 **Mar 11**  1  0/15


Add a card...


Image Processing 

Add a card...

Raspberry Pi + Cam 


Add a card...


STM + Moisture 

<STM32>Calibrate Sensor
 pp

Pi <-> STM32 Interrupt

Add a card...

LineBot and Restful 

<Line> thread collect data
 **Feb 14**


PostgreSQL on (heroku | azure)?

Merge all branch everyday (4 pm)

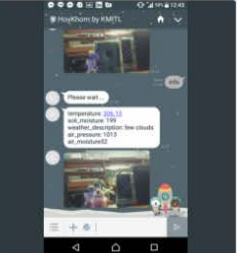
issue


<https://www.wunderground.com/>


Add a card...

Done 



Add a list...





upload 3/14/2017 at 5:59:30 PM.png
 1



<Weather report> Sample Get Weather Report and render to web page


<Pi> Install Raspbian

<RestFul> Response Image
  **Feb 13**

Send/Receive Data
  **Feb 11**

Password

Read Database and Analysis Data (Matlab)
 **Feb 13** 








Take a pic from pi

Add a card...

We talk 2 times a days

hoykhom_pms > 02_Project_Management

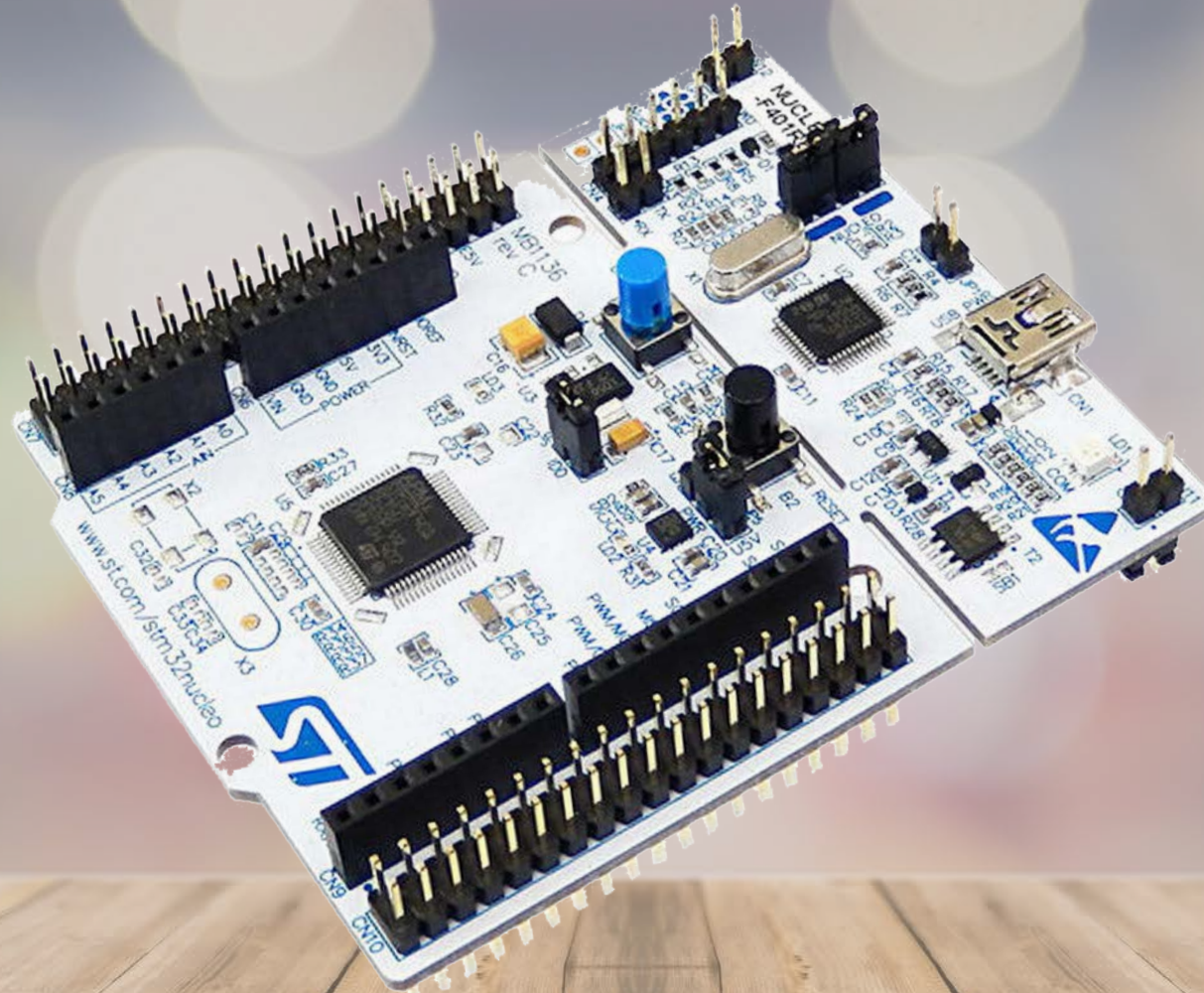
Search 02_Project_Manageme...

Name	Date modified	Type	Size
 Project_Management_Document.xls	3/17/2017 3:56 AM	Microsoft Excel 97...	404 KB
 ProjectPlan.docx	3/17/2017 3:56 AM	Microsoft Word D...	748 KB
 ScrumsMeeting1-14A.docx	3/15/2017 9:10 AM	Microsoft Word D...	13 KB
 ScrumsMeeting2-14N.docx	3/15/2017 9:10 AM	Microsoft Word D...	16 KB
 ScrumsMeeting3-15A.docx	3/15/2017 11:43 PM	Microsoft Word D...	16 KB
 ScrumsMeeting3-15N.docx	3/17/2017 3:56 AM	Microsoft Word D...	16 KB
 ScrumsMeeting3-16N.docx	3/17/2017 3:56 AM	Microsoft Word D...	15 KB

But we haven't
done yet...

Problem Analysis

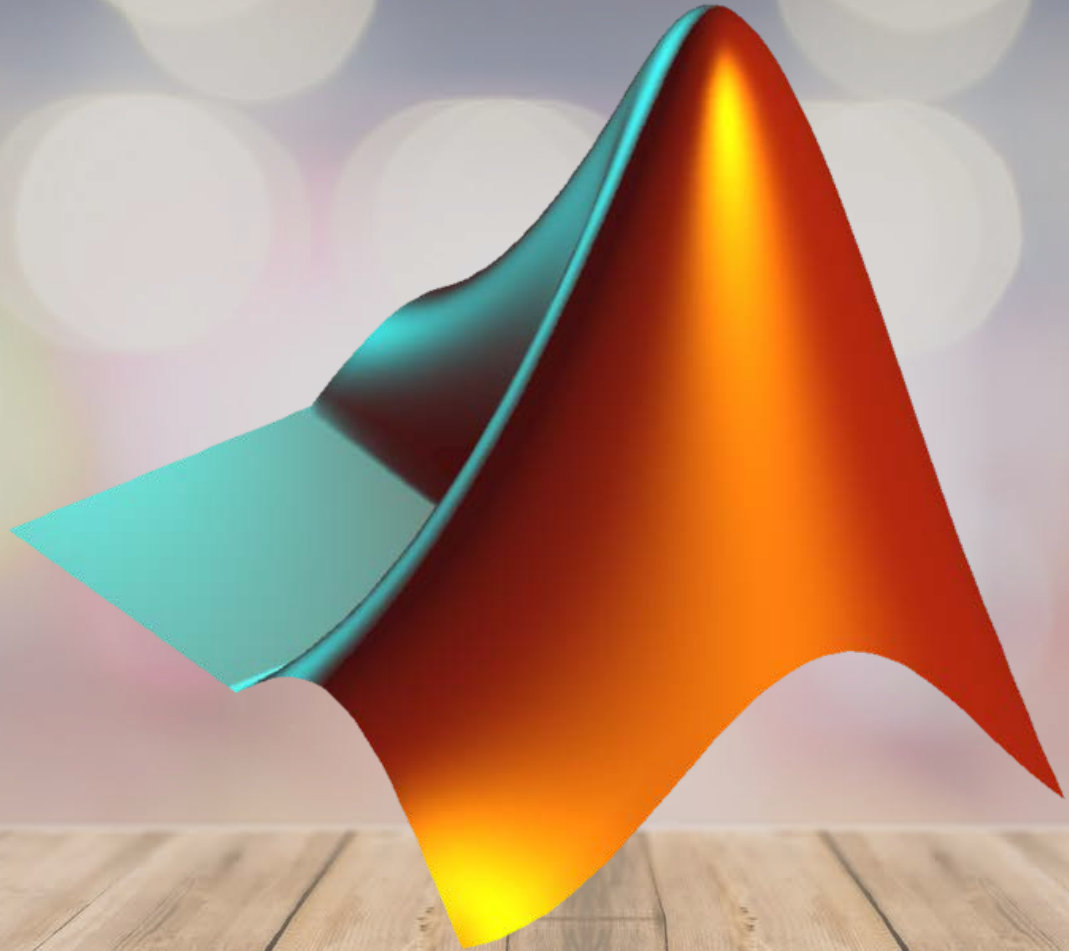
Why STM32?



Why Raspberry Pi 3 ?



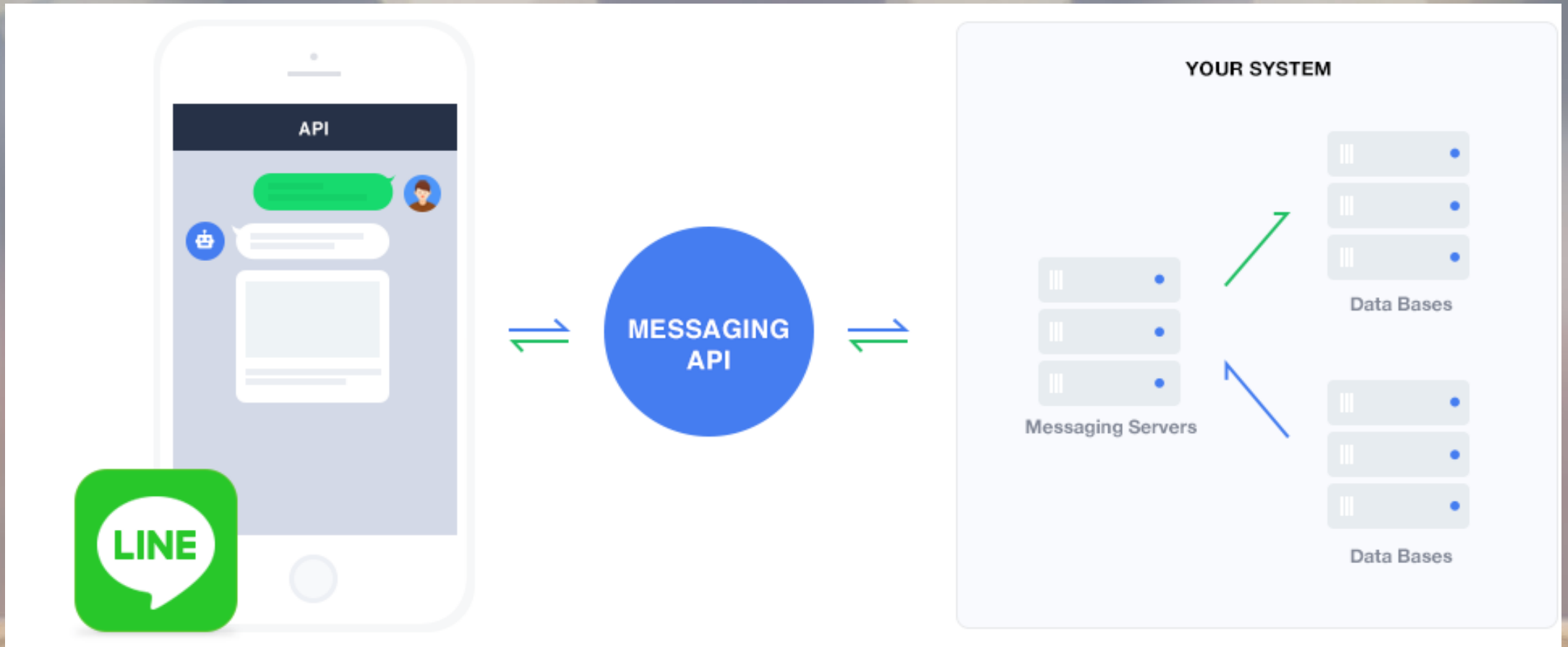
Why Matlab?



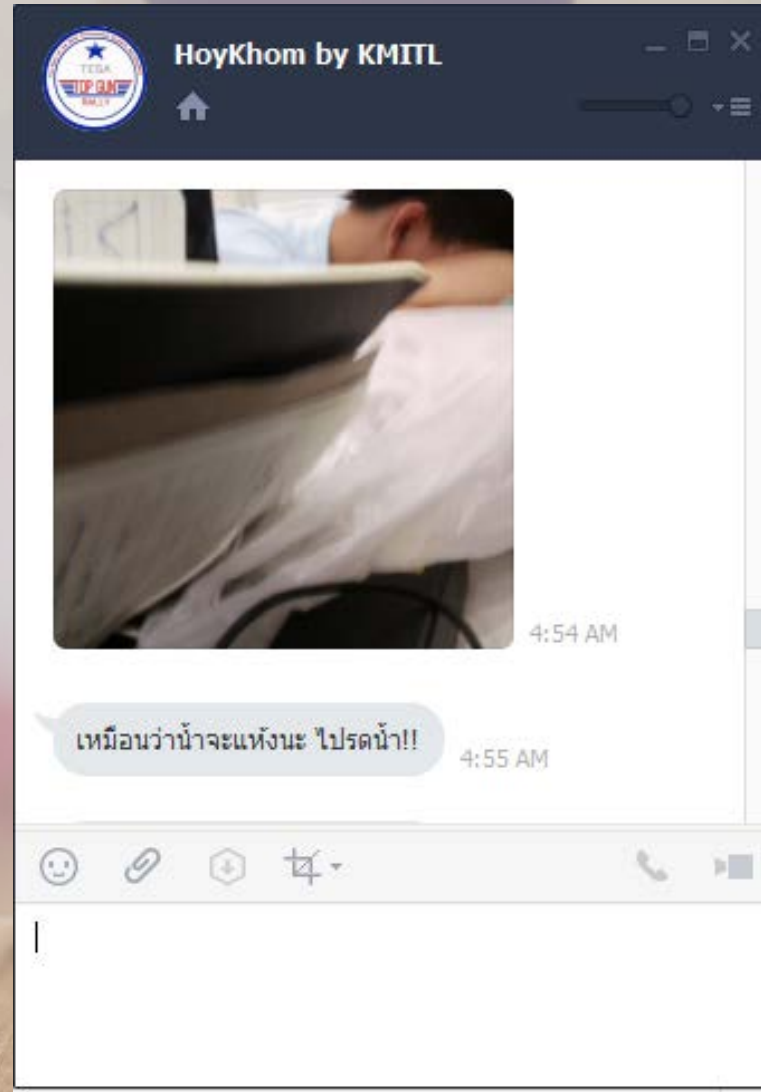
Why Heroku, Flask and psycopg?



Why Line Bot API?



Why not just a web?



Thank You

TESA TOP GUN RALLY 2017
The Best of The Best on Embedded System Developers

การแข่งขันสุดยอดฝีมือทางด้านระบบสมองกลฝังตัวชิงแชมป์ประเทศไทย ครั้งที่ 11

Predictive Monitoring System

ณ สถาบันเทคโนโลยีไทย-ญี่ปุ่น
12 - 18 มีนาคม 2017

Sponsors:

- ThaiGerTec
- CAT
- TESA
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- silicon craft
- TOYOTA TSUSHO ELECTRONICS (THAILAND) Co., Ltd.
- ThaiEasyElec
- DIGITAL DIALOGUE
- SCG
- NIA
- DESIGN GATEWAY
- SAIJO DENKI
- DAEWOO
- DEAWARE
- UNI-Aire
- Celestica
- TECH SOURCE
- Transcode
- ST
- xsense
- KKI
- NDR
- ATIZ