

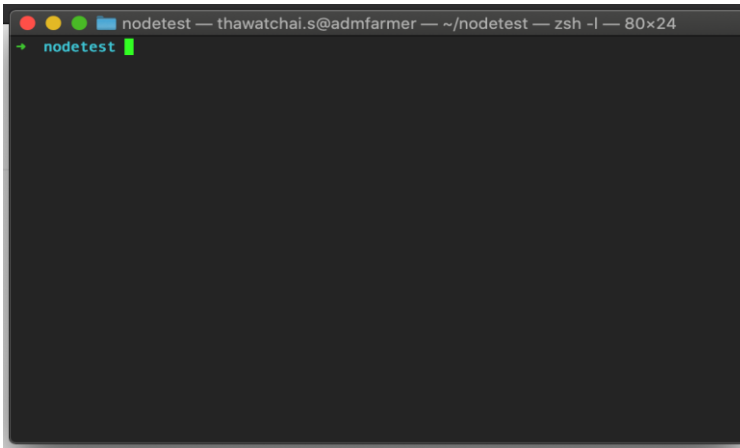
คู่มือติดตั้ง API (Ubon Refer)

1. ติดตั้งโปรแกรมพื้นฐาน

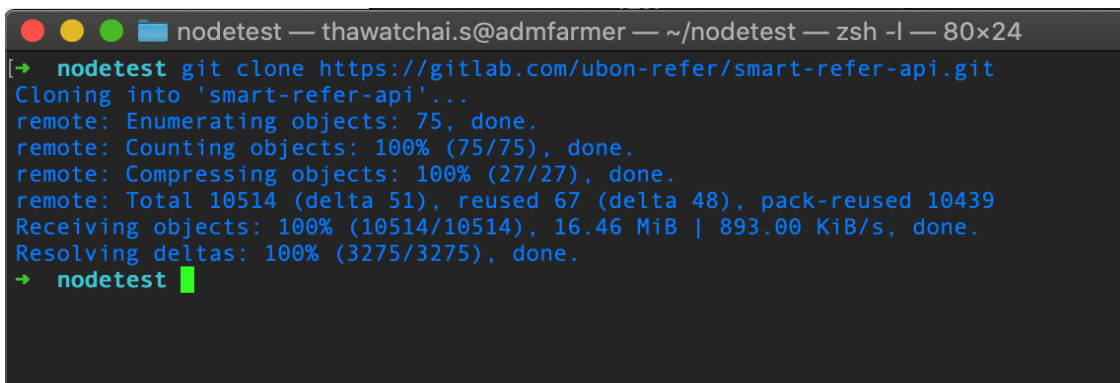
1. download ติดตั้ง nodejs v10.xx.x =>> <https://nodejs.org/dist/v10.18.1/>
2. download ติดตั้ง git v2.xx.xx =>> <https://git-scm.com/downloads>

2. ติดตั้ง API

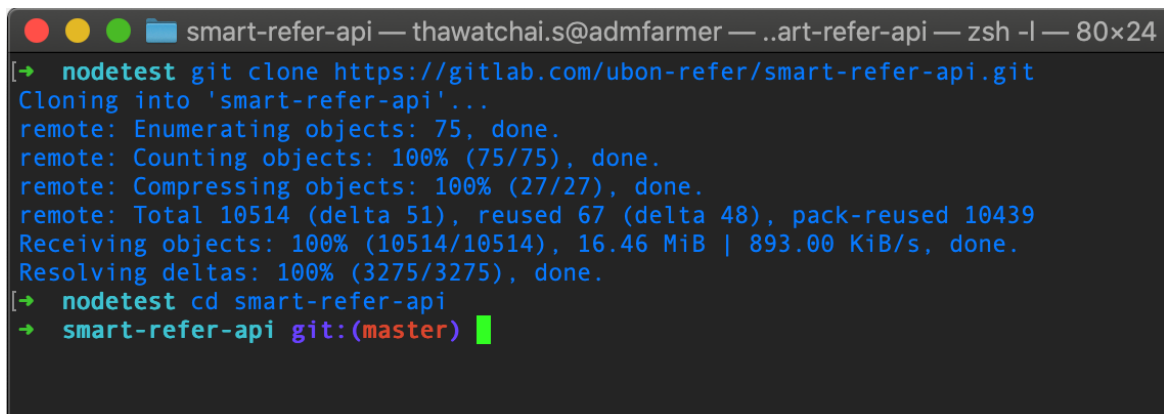
2.1 เปิด command หรือ terminal



2.2 ติดตั้งด้วยคำสั่ง =>> git clone <https://gitlab.com/ubon-refer/smart-refer-api.git>



2.3 เข้าไปที่ โฟลเดอร์ smart-refer-api ด้วยคำสั่ง =>> cd smart-refer-api



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2.4 คัดลอก ไฟล์ config.txt แล้ว เปลี่ยนชื่อ เป็น config ด้วยคำสั่ง =>> cp config.txt config

```
smart-refer-api — thawatchai.s@admfarmer — ..art-refer-api — zsh -l — 80x24
[→ smart-refer-api git:(master) cp config.txt config
→ smart-refer-api git:(master) █
```

2.5 เปิดไฟล์ config เพื่อแก้ไข ด้วยคำสั่ง =>> nano config หรือ =>> vi config

```
smart-refer-api — nano config — nano — nano config — 80x24
GNU nano 2.0.6 File: config
IS_PROVIDER=hi
DB_HOST=localhost
DB_CLIENT=mysql
DB_PORT=3306
DB_NAME=hi
DB_USER=root
DB_PASSWORD=123456789

DB_CHARSET=utf8

HIS_CODE=10957

SERV_API_URL=http://tscenter.moph.go.th/api/svrefer

HIS_API_URL=http://localhost:3004
SECRET_KEY=YourSecretKey

PORT=3004

[ Read 18 lines ]
^G Get Help ^O WriteOut ^R Read File ^Y Prev Page ^K Cut Text ^C Cur Pos
^X Exit ^J Justify ^W Where Is ^V Next Page ^U UnCut Text ^T To Spell
```

3. ติดตั้ง node modules

3.1 ด้วยคำสั่ง =>> npm i

```
smart-refer-api — npm i — npm — npm TMPDIR=/var/folders/_k/f2pt0gq947x...
[→ nodetest git clone https://gitlab.com/ubon-refer/smart-refer-api.git
Cloning into 'smart-refer-api'...
remote: Enumerating objects: 75, done.
remote: Counting objects: 100% (75/75), done.
remote: Compressing objects: 100% (27/27), done.
remote: Total 10514 (delta 51), reused 67 (delta 48), pack-reused 10439
Receiving objects: 100% (10514/10514), 16.46 MiB | 893.00 KiB/s, done.
Resolving deltas: 100% (3275/3275), done.
[→ nodetest cd smart-refer-api
[→ smart-refer-api git:(master) npm i
(( )) :: refresh-package-json:@types/body-parser: sill refresh-pa
```

3.2 สั่ง compile typescript ด้วยคำสั่ง =>> tsc

```
smart-refer-api — thawatchai.s@admfarmer — ..art-refer-api — zsh -l — 80x24
Thank you for using node-cron!
If you rely on this package, please consider supporting our open collective:
> https://opencollective.com/node-cron/donate

> nodemon@1.19.4 postinstall /Users/thawatchai.s/nodetest/smart-refer-api/node_modules/nodemon
> node bin/postinstall || exit 0

added 596 packages from 456 contributors and audited 6096 packages in 17.157s
found 4 vulnerabilities (1 low, 1 moderate, 2 high)
  run `npm audit fix` to fix them, or `npm audit` for details

New minor version of npm available! 6.11.3 → 6.13.6
Changelog: https://github.com/npm/cli/releases/tag/v6.13.6
  Run npm install -g npm to update!

[→ smart-refer-api git:(master) tsc
[→ smart-refer-api git:(master) █
```

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3.3 ติดตั้ง pm2 ด้วยคำสั่ง =>> npm i -g pm2

```
smart-refer-api — thawatchai.s@admfarmer — ..art-refer-api — zsh -l — 80x24

added 596 packages from 456 contributors and audited 6096 packages in 17.157s
found 4 vulnerabilities (1 low, 1 moderate, 2 high)
  run `npm audit fix` to fix them, or `npm audit` for details

New minor version of npm available! 6.11.3 → 6.13.6
Changelog: https://github.com/npm/cli/releases/tag/v6.13.6
  Run npm install -g npm to update!

[→ smart-refer-api git:(master) tsc
[→ smart-refer-api git:(master) npm i -g pm2
/usr/local/bin/pm2-runtime -> /usr/local/lib/node_modules/pm2/bin/pm2-runtime
/usr/local/bin/pm2 -> /usr/local/lib/node_modules/pm2/bin/pm2
/usr/local/bin/pm2-docker -> /usr/local/lib/node_modules/pm2/bin/pm2-docker
/usr/local/bin/pm2-dev -> /usr/local/lib/node_modules/pm2/bin/pm2-dev
+ pm2@4.2.1
added 16 packages from 19 contributors, removed 196 packages, updated 41 packages
and moved 2 packages in 13.482s
[→ smart-refer-api git:(master)
```

3.4 ตรวจสอบว่ามีระบบอะไรบ้างที่ทำงานอยู่ใน Server ด้วยคำสั่ง =>> pm2 list

```
smart-refer-api — thawatchai.s@admfarmer — ..art-refer-api — zsh -l — 80x24

Start and Daemonize any application:
$ pm2 start app.js

Load Balance 4 instances of api.js:
$ pm2 start api.js -i 4

Monitor in production:
$ pm2 monitor

Make pm2 auto-boot at server restart:
$ pm2 startup

To go further checkout:
http://pm2.io/

-----

[PM2] Spawning PM2 daemon with pm2_home=/Users/thawatchai.s/.pm2
[PM2] PM2 Successfully daemonized



| id | name | mode | ๗ | status | cpu | memory |
|----|------|------|---|--------|-----|--------|
|----|------|------|---|--------|-----|--------|



[→ smart-refer-api git:(master)
```

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3.5 รันระบบด้วย pm2 ด้วยคำสั่ง =>> pm2 start nodemon --name smart-refer-api

```
smart-refer-api — thawatchai.s@admfarmer — ..art-refer-api — zsh -l — 80x24

Make pm2 auto-boot at server restart:
$ pm2 startup

To go further checkout:
http://pm2.io/

-----

[PM2] Spawning PM2 daemon with pm2_home=/Users/thawatchai.s/.pm2
[PM2] PM2 Successfully daemonized
```

id	name	mode	๓	status	cpu	memory
0	smart-refer-api	fork	0	online	0%	10.4mb

```
[→ smart-refer-api git:(master) pm2 start nodemon --name smart-refer-api
[PM2] Starting /usr/local/bin/nodemon in fork_mode (1 instance)
[PM2] Done.

id name mode ๓ status cpu memory
0 smart-refer-api fork 0 online 0% 10.4mb

→ smart-refer-api git:(master)
```

3.6 บันทึก pm 2 ให้ทำงานทุกครั้งที่มีการเปิดเครื่องใหม่ ด้วยคำสั่ง =>> pm2 save และ =>> pm2 startup

```
smart-refer-api — thawatchai.s@admfarmer — ..art-refer-api — zsh -l — 80x24

-----

[PM2] Spawning PM2 daemon with pm2_home=/Users/thawatchai.s/.pm2
[PM2] PM2 Successfully daemonized
```

id	name	mode	๓	status	cpu	memory
0	smart-refer-api	fork	0	online	0%	10.4mb

```
[→ smart-refer-api git:(master) pm2 save
[PM2] Saving current process list...
[PM2] Successfully saved in /Users/thawatchai.s/.pm2/dump.pm2
[→ smart-refer-api git:(master) pm2 startup
[PM2] Init System found: launchd
[PM2] To setup the Startup Script, copy/paste the following command:
sudo env PATH=$PATH:/usr/local/Cellar/node@10/10.17.0/bin /usr/local/lib/node_modules/pm2/bin/pm2 startup launchd -u thawatchai.s --hp /Users/thawatchai.s
→ smart-refer-api git:(master)
```

4. อัปเดตระบบ Ubon Refer

4.1 ด้วยคำสั่ง =>> git pull

```
smart-refer-api — thawatchai.s@admfarmer — ..art-refer-api — zsh -l — 80x24
[→ smart-refer-api git:(master) git pull
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 5 (delta 4), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), done.
From https://gitlab.com/ubon-refer/smart-refer-api
   bb63142..8ad8b34  master    -> origin/master
Updating bb63142..8ad8b34
Fast-forward
 src/models/his_hi.model.ts | 4 ++--
 1 file changed, 2 insertions(+), 2 deletions(-)
→ smart-refer-api git:(master)
```

4.2 สั่ง compile typescript ด้วยคำสั่ง =>> tsc

```
smart-refer-api — thawatchai.s@admfarmer — ..art-refer-api — zsh -l — 80x24
[→ smart-refer-api git:(master) git pull
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 5 (delta 4), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), done.
From https://gitlab.com/ubon-refer/smart-refer-api
   bb63142..8ad8b34  master    -> origin/master
Updating bb63142..8ad8b34
Fast-forward
 src/models/his_hi.model.ts | 4 ++--
 1 file changed, 2 insertions(+), 2 deletions(-)
[→ smart-refer-api git:(master) tsc
→ smart-refer-api git:(master) █
```

4.3 รัน API ใหม่ ด้วยคำสั่ง =>> pm2 restart smart-refer-api

```
smart-refer-api — thawatchai.s@admfarmer — ..art-refer-api — zsh -l — 80x24
[→ smart-refer-api git:(master) git pull
remote: Enumerating objects: 9, done.
remote: Counting objects: 100% (9/9), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 5 (delta 4), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (5/5), done.
From https://gitlab.com/ubon-refer/smart-refer-api
   bb63142..8ad8b34  master    -> origin/master
Updating bb63142..8ad8b34
Fast-forward
 src/models/his_hi.model.ts | 4 ++--
 1 file changed, 2 insertions(+), 2 deletions(-)
[→ smart-refer-api git:(master) tsc
[→ smart-refer-api git:(master) pm2 restart smart-refer-api
Use --update-env to update environment variables
[PM2] Applying action restartProcessId on app [smart-refer-api](ids: 0)
[PM2] [smart-refer-api](0) ✓
```

id	name	mode	♾	status	cpu	memory
0	smart-refer-api	fork	1	online	0%	1.6mb

```
→ smart-refer-api git:(master)
```