การติดตั้ง API Connect

เริ่มจากการติดตั้งNodeJS เสร็จแล้วให้ติดตั้งLoopbackจากนั้นจึงมาทำขั้นตอนต่อไปนี้ 1.ค้นหาในช่องค้นหาของWindow ว่า "cmd" จากนั้นคลิกขวาที่ Command Prompt

คลิก Run as administrator



2.หลังจากหน้า administrator command promptขึ้นมาแล้วให้ทำการติดตั้ง Python โดยใช้คำสั่งด้านล่างแล้ว กดปุ่ม Enter จากนั้นรอการติดตั้งจนขึ้นดังภาพ ในระหว่างการติดตั้งจะใช้ระยะเวลาซักพักมีค้างในบางช่วงการ ติดตั้ง ควรรอให้ข้อความขึ้นครบดังภาพด้านล่างหรือมีเคอร์เซอร์รับคำสั่งใหม่ขึ้นมาก่อน

npm install -g windows-build-tools

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Administrator: Command Prompt	-		\times
f a certificate. This usually happens when a package has been damaged. \r\n\r\n**FIX**:: First, select get the name of the damaged package. In File Explorer, delete that package from the ProgramData\Microsoft \Packages folder and try installing Visual Studio again. If you are installing from a local or network la owing the recommended steps to [update a network–based installation of Visual Studio.] (https://docs. en-us/visualstudio/install/update-a-network-installation-of-visual-studio)", "Resources":[["Locale":"en-us" Error 0x80096004:: Signature can't be verified**\r\nThere is a problem verifying the signature of a c is usually happens when a package has been damaged. \r\n\r\n**FIX**:: First, select View Logs to get t damaged package. In File Explorer, delete that package from the ProgramData\Microsoft\VisualStudio\Pac nd try installing Visual Studio again. If you are installing from a local or network layout, try following ed steps to [update a network–based installation of Visual Studio.] (https://docs.microsoft.com/en-us install/update-a-network-installation-of-visual-studio)"]]}], "Precedence":["Win10SDK_Hidden_10.0.10240_2"," 10586.212", "Win10SDK_10.0.14393.795", "Win10SDK_10.0.15063", "Win10SDK_10.0.16299", "Win10SDK_10.0.17134", "Wi 763", "Win10SDK_IDOverUsb", "Win10_Emulator_10.0.14393.0", "Win10_Emulator_10.0.15063", "Win10_Emulator_10.0.17134", "Wi 7645, "Win10SDK_IDOverUsb", "Win10_Emulator_10.0.14393.0", "Win10_Emulator_10.0.15063", "Win10_Emulator_10.0.0. FrorMessage": "**Error -2147024891: Access is denied**\r\nThere is a problem accessing the registry of this machine. This can happen if Windows Defender or other anti-virus software is restricting access. IX**: Please review your anti-virus settings and ensure the Visual Studio Installer has unrestricted registry and file system.", "Resources":[["Locale":"en-us", "Message":"**Error -2147024891: Access is 	View \Visu yout, micros ,"Mess ertifi he nam kages the 1 /visu 8360-(Win10SDF 5254"] or fill \n \r\ acces denic	Logs 1 lalStud try fc soft.cc sage":' icate. ne of 1 folder recomme alstud 5542C6f SDK_10. { 10.0,], "Comm le syst le syst ss to 1 ed**\r	to ^ dio Dll Dm/ Th the end the end to FC9 0. 17 non tem s**F the the to nT
Now configuring the Visual Studio Build Tools and Python			
All done!			
+ windows-build-tools@5.1.0 added 145 packages from 99 contributors in 836.27s			~

3.ให้ทำการเช็คเวอร์ชั่นของPythonโดยคำสั่งด้านล่าง แล้วกดปุ่ม Enter หากขึ้นดังภาพที่3.1ให้ข้ามไปทำข้อที่ 10 ได้เลยหากขึ้นดังภาพที่3.2ให้ทำตามขั้นตอนต่อไป

python -V

สาเหตุที่ต้องลงPython เพราะตัว api connect toolkit จะมี step ที่ต้อง compile code python เลย

จำเป็นต้องลง python ในเครื่องครับ

3.1 แสดงเวอร์ชั่นที่อยู่ในเครื่องให้ข้ามไปขั้นตอนที่ 10ได้เลย

Administrator: Command Prompt



3.2 หากขึ้นดังภาพแสดงว่าหา Python ไม่เจอให้ทำตามขั้นตอนถัดไป

C:\WINDOWS\system32>python -V 'python' is not recognized as an internal or external command, operable program or batch file.

4.ให้ทำการค้นหาในไดรฟ์ C ว่ามีโฟลเดอร์ Python27หรือไม่ หากยังไม่มีให้ทำการลงโดยไปที่

https://www.python.org/downloads/release/python-2715/



5.หากมีแล้วให้ทำการตรวจสอบในโฟลเดอร์ Python27 ว่ามี python.exeหรือไม่ หากมีแล้วแสดงว่าหาPathของ Pythonไม่เจอ แล้วให้ไปกำหนดPath ผ่าน systen environment

Search Results in Acer (C:) $ ightarrow$ python27			
Name	Date modified	Туре	Size
📮 DLLs	5/6/2562 9:18	File folder	
📮 Doc	5/6/2562 9:18	File folder	
📮 include	5/6/2562 9:18	File folder	
Lib	5/6/2562 9:46	File folder	
📙 libs	5/6/2562 9:18	File folder	
📙 Scripts	5/6/2562 9:19	File folder	
📙 tcl	5/6/2562 9:18	File folder	
– Tools	5/6/2562 9:18	File folder	
LICENSE	30/4/2561 16:41	Text Document	38 KB
NEWS	30/4/2561 16:37	Text Document	482 KB
Depython	30/4/2561 16:31	Application	28 KB
Pythonw	30/4/2561 16:31	Application	28 KB
README	14/4/2561 22:47	Text Document	56 KB



5.1ให้ทำการคลิกขวาที่ python.exe เลือกที่ Properties ให้คัดลอกในส่วนของ Location เอาไว้

6.กำหนดPath ผ่าน systen environmentโดยให้ทำการปิด administrator command prompt ลงไปก่อน แล้วทำการค้นหาในช่องค้นหาของwindowว่าsystem environment จะขึ้นดังภาพให้คลิกเรียกขึ้นมา

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7.จะขึ้นมาดังช่องที่1 ให้คลิกที่Environment Variables ในช่องที่ 2 จากนั้นให้คลิกที่Pathช่องที่ 3 แล้วคลิกEdit ในช่องที่ 4

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8.จะขึ้นดังภาพให้คลิก New แล้วทำการเพิ่มPathไปยังโฟลเดอร์ที่python.exeอยู่ที่คัดลอกไว้ในข้อ 5.1 จากนั้น

on27	Edit environment variable	×				
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9.ทำการค้นหาในช่องค้นหาของWindow ว่า "cmd" จากนั้นคลิกขวาที่ Command Prompt

คลิก Run as administrator ขึ้นมาอีกรอบตามข้อ 1 ให้ทำการเช็คเวอร์ชั่นของPythonโดยคำสั่งด้านล่าง แล้วกด ปุ่ม Enter

python -V



10.ทำการติดตั้ง API Connect โดยใช้คำสั่งด้านล่างแล้วกดปุ่ม Enter

npm install -g apiconnect

รอติดตั้งจนเสร็จจะขึ้นดังภาพเป็นอันเสร็จสิ้น

Administrator: Command Prompt	-		×
n.dll to ./plugins\nodeenvplugin.dll 1 file(s) copied. Copying ./omr-agentcore/agentcore.dll to ./agentcore.dll 1 file(s) copied.			
<pre>> spawn-sync@1.0.15 postinstall C:\Users\User\AppData\Roaming\npm\node_modules\apiconnect\node_modules\spa > node postinstall</pre>	awn-sy	nc	
> apiconnect-mgmt-lite-datapower@1.1.10 postinstall C:\Users\User\AppData\Roaming\npm\node_modules\apiconn es\apiconnect-mgmt-lite-datapower > node ./update-env.js	iect\n	ode_mo	odul
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: npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for modern-syslog@1.2.0: wanted {"os": ""any"} (current: {"os":"win32", "arch":"%64"}) npm WARN optional SKIPPING OPTIONAL DEPENDENCY: sqlite3@3.1.13 (node_modules\apiconnect\node_modules\sqlit npm WARN optional SKIPPING OPTIONAL DEPENDENCY: sqlite3@3.1.13 install: `node-pre-gyp installfallback-t npm WARN optional SKIPPING OPTIONAL DEPENDENCY: Exit status 1	'!win3 te3): to-bui	2", "aı 1d`	rch"
+ apiconnect@4.0.24 added 2684 packages from 2062 contributors in 404.492s			
C+\WINDOWS\overtow99\			

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ติดตั้งเครื่องมือStrongloop



11.ใส่คำสั่งด้านล่างจากนั้นกด ENTER แล้วรอติดตั้งจนเสร็จ

npm install -g strongloop

Command Prompt

> core-js@2.6.9 postinstall C:\Users\User\AppData\Roaming\npm\node_modules\strongloop\node_modules\core-js > node scripts/postinstall echo "ignore"
(node:18148) MaxListenersExceededWarning: Possible EventEmitter memory leak detected. 11 SIGINT listeners added. Use emitter.setMaxListeners() to increase limit Thank you for using core-js (https://github.com/clainedkanare/js) for polyfilling JavaScript standard library!
The project needs your help! Please consider supporting of core-js on Open Collective or Patreon:
> spawn-sync@1.0.15 postinstall C:\Users\User\AppData\Roaming\npm\node_modules\strongloop\node_modules\spawn-sync > node postinstall
<pre>npm Mix acorm-dynamic-import@4.0.0 requires a peer of acorm@6.0.0 but none is installed. You must install peer dependencies yourself. npm Mix acorm-dynamic-import@4.0.0 requires a peer of acorm@6.0.0 but none is installed. You must install peer dependencies yourself. npm Mix acorm. SkiPPING OPTIONAL DEFENDENCY: installed.2.0 (node_modules/strongloop/node_modules/acord=rsyslog]: npm Mix acord=rsyslog]: npm</pre>
* strongloog86.0.3 sided 1674 packages from 1193 contributors in 345,776s C:\Users\Users\Users

12.เพื่อแน่ใจว่าได้ติดตั้ง npm package แล้วให้ทำการใส่คำสั่งข้างล่างแล้วEnter

npm install -g semver



13.หากไม่ขึ้น Error ให้ใส่คำสั้งด้านล่างต่อ แล้วกด Enter จะจะเห็นคำสั่งพื้นฐานขึ้นดังรูป

semver –help

Command Prompt
C:\Users\User≻semverhelp SemVer 6.1.1
A JavaScript implementation of the https://semver.org/ specification Copyright Isaac Z. Schlueter
Jsage: semver [options] <version> [<version> []] Prints valid versions sorted by SemVer precedence</version></version>
Dptions: -rrange <range> Print versions that match the specified range.</range>
-iincrement [<level>] Increment a version by the specified level. Level can be one of: major, minor, patch, premajor, preminor, prepatch, or prerelease. Default level is 'patch'. Only one version may be specified.</level>
preid <identifier> Identifier to be used to prefix premajor, preminor, prepatch or prerelease version increments.</identifier>
-1loose Interpret versions and ranges loosely
-pinclude-prerelease Always include prerelease versions in range matching
-ccoerce Coerce a string into SemVer if possible (does not implyloose)
Program exits successfully if any valid version satisfies all supplied ranges, and prints all satisfying versions.
If no satisfying versions are found, then exits failure.
Versions are printed in ascending order, so supplying multiple versions to the utility will just sort them.
C:\Users\User>

14.จากนั้นติดตั้งส่วนเสริมของNodeโดยใส่คำสั่งด้านล่าง แล้วกดEnter จากนั้นรอจนขึ้นดังรูป

npm install -g buffertools

Command Prompt	- a ×
c:\user\user\node-gyp\10.16.0\include\node\v8.h(2891): note: see declaration of 'v8::String;: :\users\user\appdata\rousing\npm\node_modules\buffertools\buffertools.cc(266): warning C4996; 'w :\users\user\appdata\rousing\nym\node_modules\buffertools\buffertools.cc(266): warning C4996; 'w	Utf8Value::Utf8Value' 8::Value::ToObject': was declared deprecated [C:\Users\User\AppData\Roaming\npm\node_module
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es/unirertools/uni/aunirertools.vexproj) c:\users\user\.node_gypl0.16.6\user\.node_ypl0.16.6\user\s.h(2478): note: see declaration of 'v8::Value:;1 :\users\user\user\appdnta\roaming\npm\node_modules\buffertools\buffertools.cc(452): warning C4996: 'v	nt32Value' 8::Value::ToObject': was declared deprecated [C:\Users\User\AppData\Rouming\npm\node_module
\Durretools\DurlayDertools\DurlayDertools,vexprojj c:\users\user\angletoolsev\node_gyp\10.16.0\nclude\node\v8.h(10046): note: see declaration of 'v8::Value:: :\users\user\appdata\roaming\npm\node_modules\buffertools\buffertools.cc(470): warning C4996: 'v	ToObject' S::String::Utf8Value::Utf8Value': was declared deprecated [C:\Users\User\AppData\Roaming\np
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c:\users\user\user\node_gyp\10.16.0\include\node\v8.h(10046): note: see declaration of 'v8::Value:: Creating library C:\Users\User\AppData\Rouming\npm\node_modules\buffertools\build\Release\bu elesse\buffertools.exp	ToObject' ffertools.lib and object C:\Users\User\AppDuta\Roaming\npm\node_modules\buffertools\build\R
All 146 functions were compiled because no usable IPDB/IOBJ from previous compilation was found Finished generating code	
hoffertools,vexproj -> C:\Users\User\AppButa\Rosming\npm\node_modules\buffertools\build\Release buffertools#2.1.6 dded 1 package from 6 contributors in 8.453s	\buffertools.node

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เริ่มการสร้าง API Application

1.เริ่มจากใส่คำสั่งด้านล่างลงไปจะมีการการสอบถามเล็กน้อยในครั้งแรกจากนั้นจะให้ตั้งชื่อแอพที่เรากำลังจะทำให้

ใส่ชื่อของแอพ loopback-getting-started และชื่อจัดทำให้ใส่เช่นเดียวกันชื่อแอพ

l	lb		
C ? ?	<pre>C:\Users\User>lb ? What's the name of your application? loopback-getting-started ? Enter name of the directory to contain the project: loopback-getting-started info change the working directory to loopback-getting-started</pre>		
2	2. หลังจากใส่ชื่อแอพและผู้จัดทำแล้วจะมีตัวเลือกให้เลือกเวอร์ชั่น ซึ่ง ณตอนนี้มีตัวเลือกเดียวคือ 3.x		
	mpm — — —	×	



3.จากนั้นจะมีขึ้นตัวเลือกให้เลือก api-server

att npm	-		\times
at C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\async\dist\async.js:1140:9 at C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\async\dist\async.js:473:16 at iteratorCallback (C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\async\dis 64:12)	st\asy	nc.j	^ s:10
at C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\async\dist\async.js:969:16 at C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\async\dist\async.js:1137:15 at buildResult (C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\loopback-datas	8 source	e-jugg	gler
\11b\dao.js:1685:11) at C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\loopback-datasource-juggles	r\lib\	dao.	js:1
699:13 at doNotify (C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\loopback-datasou b\observer is:155:49)	cce−ju	ıgglei	r\li
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b\observer. js:155:49) Fmitted 'error' event at:	ce ju	188161	. /11
at Immediates setImmediate (C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\yee \lib\index.js:433:22)	oman-g	genera	ator
at runCallback (timers.js:705:18) at tryOnImmediate (timers.js:676:5) at processImmediate (timers.js:658:5)			
C:\User>\cd loopback-getting-started			~

4.จากนั้นใส่คำสั่งด้านล่างแล้วกดEnter

cd loopback-getting-started

at npm	-		<
64:13)			\sim
at C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\async\dist\async, is:969:16			
at C:\Users\User\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\async\dist\async, is:1137:13	\$		
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b\observer.js:155:49)			
Emitted 'error' event at:			
at Immediate.setImmediate (C:\Users\User\AppData\Roaming\npm\node_modules\loopback-cli\node_modules\yee	man-g	enerato	r
\lib\index. js:433:22)			
at runCallback (timers.js:705:18)			
at tryOnImmediate (timers.js:676:5)			
at processImmediate (timers.js:658:5)			
C:\Users\User>cd loopback-getting-started			
C: (Users User (Toopback-getting-started>1D model			
parning: Found no data sources to attach model. Inere Will be no data-access methods available until datase	urces	are at	v

5.จากนั้นใส่คำสั่งด้านล่างแล้วกดEnter

lb model

```
C:\Users\User>cd loopback-getting-started
C:\Users\User\loopback-getting-started>lb model
Warning: Found no data sources to attach model. There will be no data-access methods available until datasour
ached.
2. Enter the model name: CoffeeSbop
```

5.จะขึ้นให้ใส่ชื่อโมเดลให้ใส่ว่า CoffeeShop

C:\Users\User\loopback-getting-started>lb model Warning: Found no data sources to attach model. There will be no data-access methods available until datasources are a ached. ? Enter the model name: CoffeeShop ? Select model's base class PersistedModel

6.จะขึ้นถามว่าต้องการแนบโมเดลไปแหล่งข้อมูลอื่นไหม ตอนนี้เรามีเพียงแหล่งข้อมูลเบื้องต้นเท่านั้นกดEnterเพื่อ

เลือก PersistedModel แล้วกด Enter

```
? Enter the model name: CoffeeShop
? Select model's base class PersistedModel
? Expose CoffeeShop via the REST API? (Y/n)
```

7.จะขึ้นถามให้กด Enterเพื่อไปขั้นตอนถัดไป



8.จากนั้นให้กด Enter อีกรอบเพื่อใช้ค่าตั้งต้น



9.จะขึ้นตัวเลือกว่าจะใช้แบบจำลองในserverเท่านั้นหรือจะสร้างบน/common ให้คุณเลือกค่าเริ่มต้นแม้ว่าจะใช้

แค่บนserverก็ตาม



10.จากนั้นจะขึ้นถาม property name ให้ใส่ "name"แล้วกด Enter



11.จากนั้นให้กด Enter เพื่อเลือกค่าเดิมในตัวเลือก (string)



12.แต่ละลักษณะเป็นตัวเลือกหรือต้องการจะตั้งชื่อให้ตอบyเพื่อตั้งชื่อที่ต้องการ



13.จากนั้นให้กด Enter เพื่อเลือกค่าดังเดิม



14.จากนั้นให้ตั้งค่าคุณสมบัติอื่นอีกโดยใช้ชื่อว่า "city"

```
Enter an empty property name when done.

? Property name: name

? Property type: string

? Required? Yes

? Default value[leave blank for none]:

Let's add another CoffeeShops property.

Enter an empty property name when done.

? Property name: city

? Property type: string

? Required? Yes

? Default value[leave blank for none]:

Let's add another CoffeeShops property.

Enter an empty property name when done.

? Property name:

C:\Users\User\loopback-getting-started>_
```

15.จากนั้นให้กดEnterเพื่อออกจากการตั้งค่าแบบจำลองเซิฟเวอร์จะสร้างไฟล์ขึ้นมาสองไฟล์คือ coffee-

shop.json ແລະ coffee-shop.js.