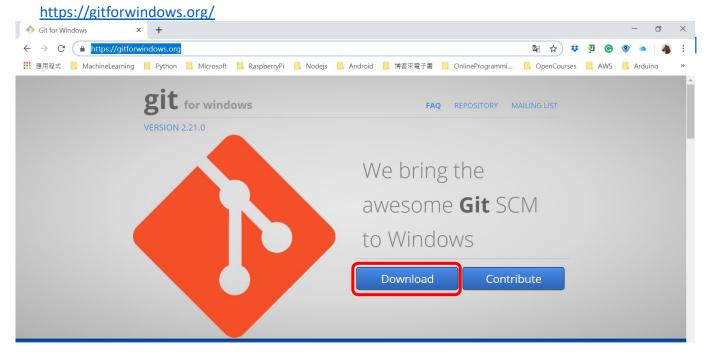
如何利用 Git+GitHub 進行 nodeprj-mathbmi 專案之版本管理

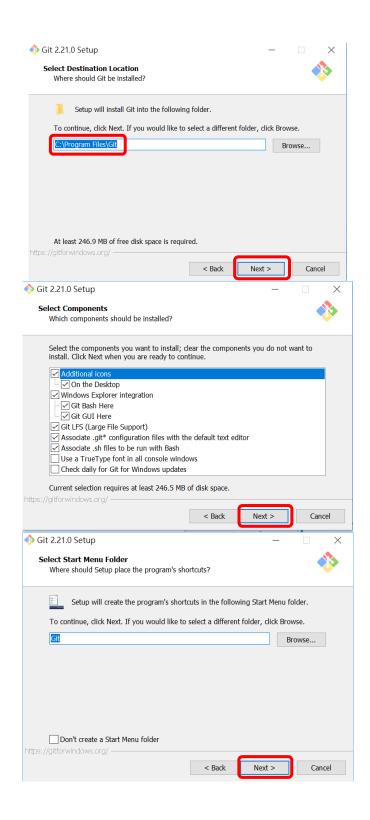
2019/3/3

1. 從以下網址下載 Git for Windows (Git-2.21.0-64-bit.exe):

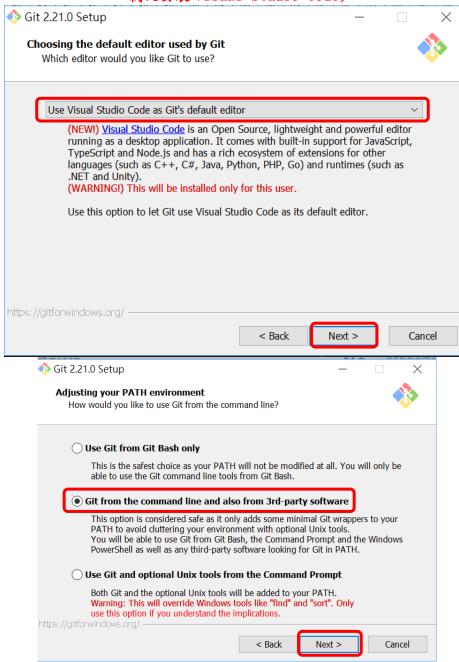


2. 從檔案總管中雙點擊 Git-2.21.0-64-bit.exe 進行安裝:





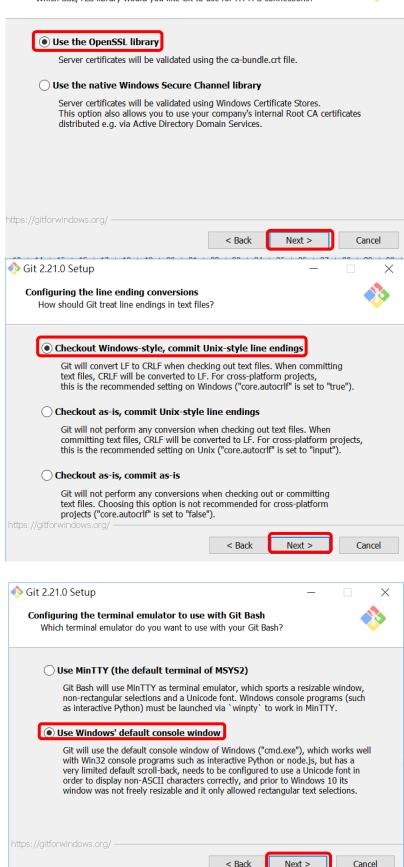
(請參考[Visual Studio Code 之下載、安裝、中文化與使用(20190406)]資料夾之說明,事先下載及安裝 Visual Studio Code)

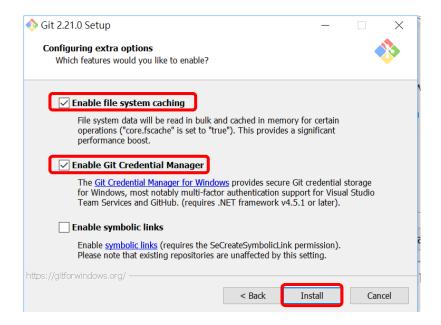


Choosing HTTPS transport backend

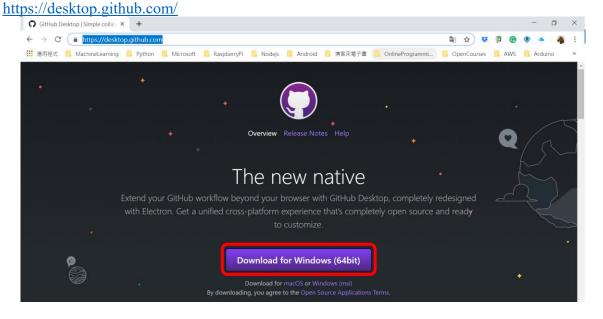
Which SSL/TLS library would you like Git to use for HTTPS connections?





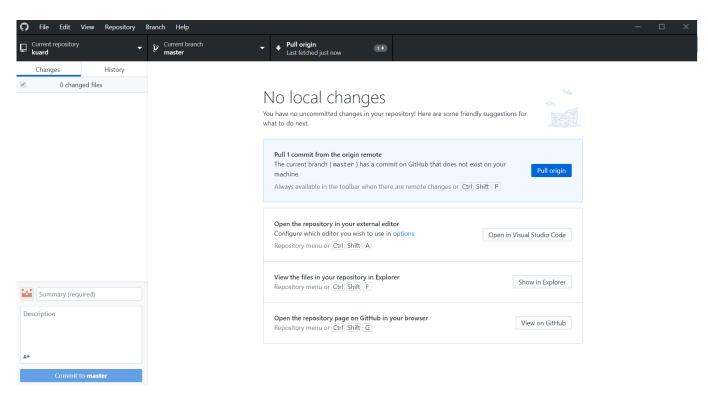


3. 從以下網址下載 GitHub Desktop for Windows (GitHubDesktopSetup. exe):



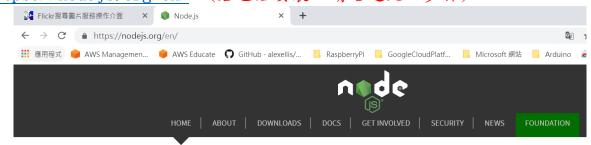
4. 從檔案總管中雙點擊 GitHubDesktopSetup. exe 進行安裝:





5. 從 node js. org 網站下載最新版本之 node js (LTS 版), 然後完成安裝:

https://node is. org/en/ (若已經安裝,請略過此一步驟)



Node.js[®] is a JavaScript runtime built on Chrome's V8 JavaScript engine.

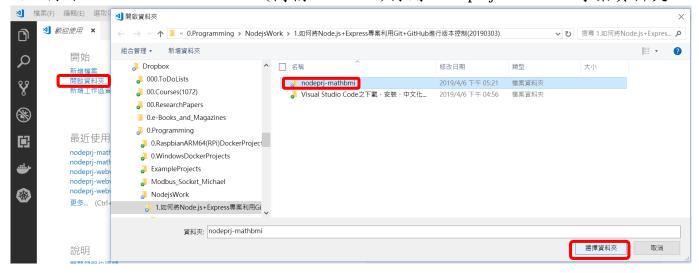
Download for Windows (x64)



Or have a look at the Long Term Support (LTS) schedule.

Sign up for Node.js Everywhere, the official Node.js Monthly Newsletter.

6. 利用 Visual Studio Code (簡稱 VS Code)打開 nodeprj-mathbmi 專案資料夾:

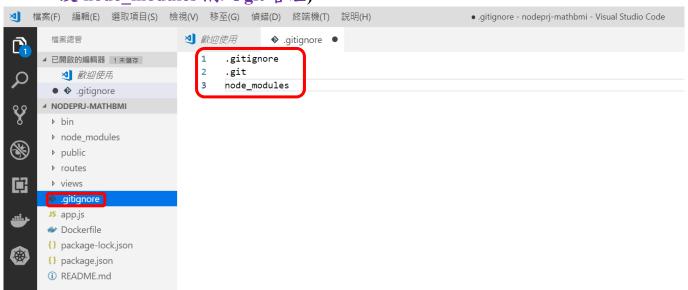


7. 在專案中新增.gitignore 檔案:

● 將滑鼠移到專案名稱上,然後按下右邊之新增檔案符號:

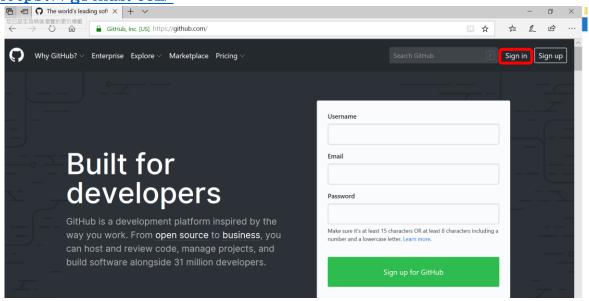


● 輸入檔名.gitignore, 並輸入以下三行(表示不要將.gitnore 檔案、.git 資料夾及 node_modules 納入 git 管理):

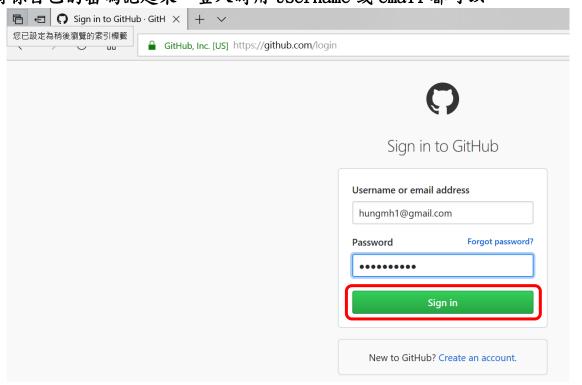


8. 打開瀏覽器,輸入 GitHub. com 網址:切換到專案目錄:

https://github.com/



9. 若還沒有帳號就註冊(Sign up)一個;若已經有了帳號,就登入(Sign in): 例如老師帳號的 Username 為 hmx4, Email 為 hungmhl@gmail.com, 請將你自己的密碼記起來。登入時用 Username 或 email 都可以。



10. 打開 Windows 之命令控制台,輸入以下命令,讓你的電腦知道你的 GitHub 之 Username 及 Email:

>git config --global user.name "hmx4" (老師的 Username)
>git config --global user.email "hungmh1@gmail.com" (老師的 Email)

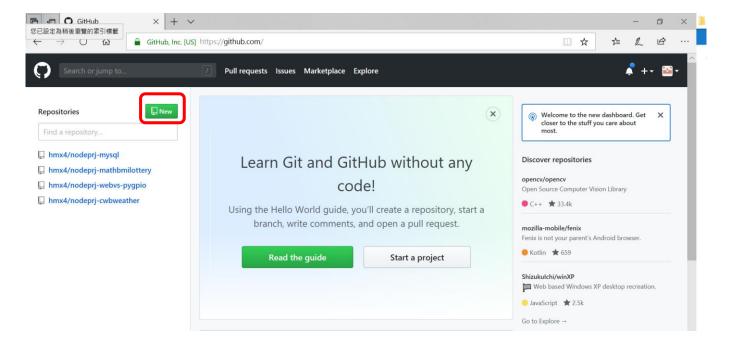
系統管理員: 命令提示字元
Microsoft Windows [版本 10.0.17134.648]
(c) 2018 Microsoft Corporation. 著作權所有,並保留一切權利。

C:\WINDOWS\system32 git config --global user.name "hmx4"

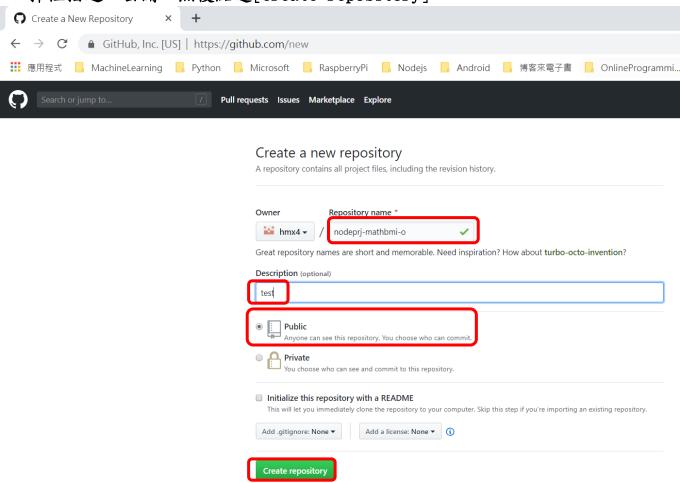
C:\WINDOWS\system32> git config --global user.email "hungmh1@gmail.com"

C:\WINDOWS\system32>

11. 點選左上方[New],以便建立一個新的遠端檔案庫:

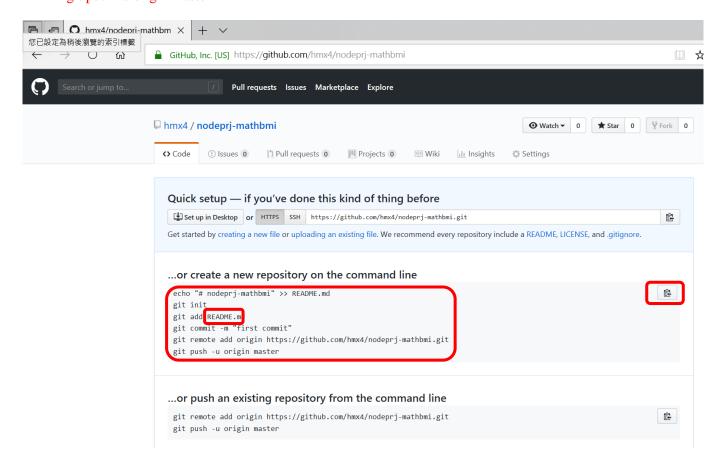


12. 輸入檔案庫名稱(請使用 Local 的專案目錄相同名稱: nodeprj-mathbmi-o),選擇性描述,公開,然後點選[Create repository]:



13. 複製建立一個新的檔案庫之命令,然後將 git add README.md 改為 git add.:

echo "# nodeprj-mathbmi-o" >> README.md
git init
git add .
git commit -m "first commit"
git remote add origin https://github.com/hmx4/nodeprj-mathbmi-o.git
git push -u origin master



14. 打開命令控制台,切換到 nodepr j-mathbmi-o 目錄,然後複製及貼上上述全部 命令,以便建立一個與源自於 GitHub 遠端檔案庫之本地端檔案庫:

C:\WINDOWS\system32 cd C:\Dropbox\00.Courses(1072)\2.e-Automation_G_202-204\第8週之1_如何將Node.js+Express專案利用Git+GitHub進行版本控制_20190409\nodeprj-mathbmi-o

C:\Dropbox\00.Courses(1072)\2.e-Automation_G_202-204\第8週之1_如何將Node.js+Express專案利用Git+GitHub進行版本控制_20190409\nodeprj-mathbmi-o>echo "# nodeprj-mathbmi-o" >> README.md C:\Dropbox\00.Courses(1072)\2.e-Automation_G_202-204\第8週之1_如何將Node.js+Express專案利用Git+GitHub進行版本控制_20190409\nodeprj-mathbmi-o>git init Initialized empty Git repository in C:/Dropbox/00.Courses(1072)/2.e-Automation_G_202-204/第8週之1_如何將Node.js+Express專案利用Git+GitHub進行版本控制_2019040 9/nodeprj-mathbmi-o/.git/ C:\Dropbox\00.Courses(1072)\2.e-Automation_G_202-204\第8週之1_如何將Node.js+Express專案利用Git+GitHub進行版本控制_20190409\nodeprj-mathbmi-o>git add . warning: LF will be replaced by CRLF in app.js.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in bin/www.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in package-lock.json.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in package-lock.json.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in public/javascripts/bootstrap.min.js.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in public/javascripts/bootstrap.min.css.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in public/stylesheets/bootstrap.min.css.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in public/stylesheets/style.css.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in routes/index.js.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in routes/sindex.js.
The file will have its original line endings in your working directory warning: LF will be replaced by CRLF in views/layout.ejs.
The file will have its original line endings in your working directory
Warning: LF will be replaced by CRLF in views/layout.ejs.
The file will have its original line endings in your working directory
Warning: LF will be replaced by CRLF in views/layout.ejs.
The file will have its original line endings in your working directory
Warning: LF will be replaced by CRLF in views/layout.ejs. C:\Dropbox\00.Courses(1072)\2.e-Automation_G_202-204\第8週之1_如何將Node.js+Express專案利用Git+GitHub進行版本控制_20190409\nodeprj-mathbmi-o>git commit -m "f irst commit"
[master (root-commit) 52a631a] first commit
17 files changed, 1473 insertions(+)
create mode 100644 Bockerfile
create mode 100644 README.md
create mode 100644 app.js
create mode 100644 package-lock.json
create mode 100644 package.json
create mode 100644 public/favicon.ico
create mode 100644 public/savascripts/boots
create mode 100644 public/stylesheets/boots
create mode 100644 public/stylesheets/style
create mode 100644 public/stylesheets/style
create mode 100644 routes/index.js create mode 100644 bin/www
create mode 100644 package-lock.json
create mode 100644 package.json
create mode 100644 public/favicon.ico
create mode 100644 public/javascripts/bootstrap.min.js
create mode 100644 public/stylesheets/bootstrap.min.css
create mode 100644 public/stylesheets/style.css
create mode 100644 routes/index.js
create mode 100644 routes/users.js
create mode 100644 views/bmi.ejs
create mode 100644 views/ror.ejs
create mode 100644 views/rindex.ejs
create mode 100644 views/lavout.ejs
create mode 100644 views/layout.ejs
create mode 100644 views/layout.ejs
create mode 100644 views/layout.ejs C:\Dropbox\00.Courses(1072)\2.e-Automation_G_202-204\第8週之1_如何將Node.js+Express專案利用Git+GitHub進行版本控制_20190409\nodeprj-mathbmi-o>git remote add o rigin https://github.com/hmx4/nodeprj-mathbmi-o.git C:\Dropbox\00.Courses(1072)\2.e-Automation_G_202-204\第8週之1_如何將Node.js+Express專案利用Git+GitHub進行版本控制_20190409\nodeprj-mathbmi-o>git push -u orig in master

Enumerating objects: 25, done.

Counting objects: 100% (25/25), done.

Delta compression using up to 4 threads

Compressing objects: 100% (21/21), done.

Writing objects: 100% (25/25), 47.90 KiB | 2.82 MiB/s, done.

Total 25 (delta 2), reused 0 (delta 0)

remote: Resolving deltas: 100% (2/2), done.

To https://github.com/hmx4/nodeprj-mathbmi-o.git

* Inew branch | master -> master

* [new branch] master -> master Branch 'master' set up to track remote branch 'master' from 'origin'.

C:\Dropbox\00.Courses(1072)\2.e-Automation_G_202-204\第8週之1_如何將Node.js+Express專案利用Git+GitHub進行版本控制_20190409\nodeprj-mathbmi-o>

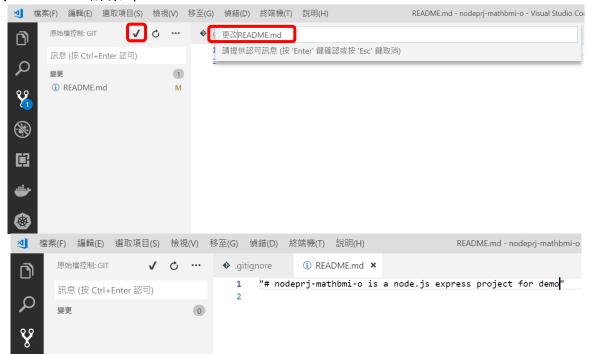
15. 切換到 VS Code, 然後更改 README. md 之內容如下:



16. 點選[原始檔控制]符號,看到變更之下有內容,表示專案有變更:



17. 點選[認可符號](勾號),然後輸入認可訊息,然後按下[Enter],以便將變更 存入 local 檔案庫:



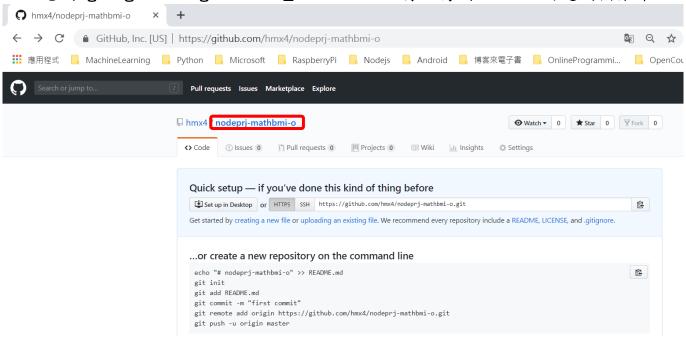
18. 點選[…]符號,選擇[推送至…]:

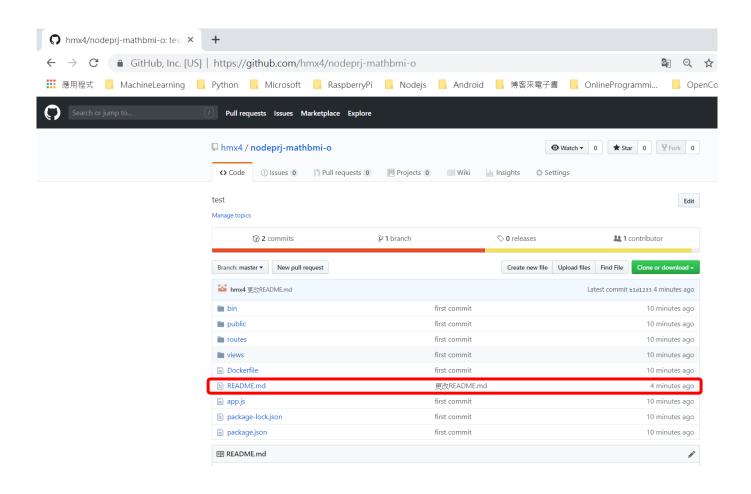


19. 用滑鼠點選[origin https://github.com/hmx4/nodeprj-mathbmi-o],以便將 最新之 local 檔案庫推送到相對應之 GitHub 遠端檔案庫:



20. 到 GitHub 網站打開 nodeprj-mathbmi-o 專案,便可看到剛剛的變更,同時注意到.gitignore、.git、node_modules 並沒有上傳到 GitHub 的遠端檔案庫:





21. 從 GitHub 下載並測試 nodeprj-mathbmi-o 專案:

● 打開 Windows 之命令視窗,切換到 C:\, 然後輸入以下命令: >cd c:\

>git clone https://github.com/hmx4/nodeprj-mathbmi-o.git

```
C:\WINDOWS\system32 cd c:\
c:\>git clone https://github.com/hmx4/nodeprj-mathbmi-o.git
Cloning into 'nodeprj-mathbmi-o'...
remote: Enumerating objects: 28, done.
remote: Counting objects: 100% (28/28), done.
remote: Compressing objects: 100% (21/21), done. remote: Total 28 (delta 3), reused 28 (delta 3), pack-reused 0 Unpacking objects: 100% (28/28), done.
c:\>dir
磁碟區 C 中的磁碟是 Windows
 磁碟區序號: FA82-371B
 c:\ 的目錄
                下午 05:35
下午 09:29
2018/09/11
                                  <DIR>
                                                       arduino-1.8.7
2019/04/08
                                                       Dropbox
                                  <DIR>
               下午 09:29
下午 03:54
下午 04:31
下午 12:24
2019/02/09
                                   <DIR>
                                                       GoogleDrive
                                                       IdeaProjects
2018/08/12
                                   <DIR>
2019/02/13
                                   <DIR>
                                                       inetpub
                下午 02:20
上午 11:03
下午 10:45
2019/01/30
                                   <DIR>
                                                       Intel
2019/04/09
                                   <DIR>
                                                   nodeprj-mathbmi-o
2018/07/22
                                   <DIR>
                                                       PerfLogs
                下午 05:06
下午 04:06
下午 05:09
2019/04/06
                                   <DIR>
                                                       Program Files
2019/03/31
                                                       Program Files (x86)
                                   <DIR>
2019/03/31
                                                       Python
                                   <DIR>
               上午 10:09
下午 10:57
下午 10:11
2019/03/01
                                   <DIR>
                                                       SQL Server 2000 Sample Databases
2019/02/13
                                   <DIR>
                                                       SQLServer2017Media
                                                       SWSETUP
2018/08/05
                                   <DIR>
                下午 09:58
下午 11:25
下午 06:03
2019/04/08
                                   <DIR>
                                                       test
2019/02/13
                                  <DIR>
                                                       Users
2019/04/08
                                  <DIR>
                                                       Windows
                下午 05:58
0 個檔案
                                <DIR> xampp
0 位元組
11,806,339,072 位元組可用
2019/03/27
                   18 個目錄
c:\>
```

● 切換到 nodeprj-mathbmi-o 目錄,並檢視專案內容(注意:此時並沒有包含 node modules 目錄):

```
c:\>cd nodeprj-mathbmi-o
c:\nodeprj-mathbmi-d>dir
 磁碟區 C 中的磁碟是 Windows
磁碟區序號: FA82-371B
c:\nodeprj-mathbmi-o 的目錄
            上午 11:03
2019/04/09
                         <DIR>
            上午 11:03
上午 11:03
2019/04/09
                          <DIR>
                                   1,362 app.js
2019/04/09
            上午 11:03
2019/04/09
                          <DIR>
                                        bin
2019/04/09
            上午 11:03
                                    184 Dockerfile
2019/04/09
            上午 11:03
                                  32,103 package-lock.json
            上午 11:03
2019/04/09
                                    511 package.json
            上午 11:03
2019/04/09
                         <DIR>
                                         public
            上午 11:03
2019/04/09
                                     62 README.md
            上午 11:03
2019/04/09
                         <DIR>
                                         routes
            上午 11:03
2019/04/09
                          <DIR>
                                         views
              5 個檔案
6 個目錄
                                 34,222 位元組
                         11,808,129,024 位元組可用
c:\nodeprj-mathbmi-o>
```

執行以下命令以根據 package. json 的內容安裝此專案需要之套件。然後再次 檢視專案內容,這時候已經新增了 node_modules 目錄:

```
>npm install
```

```
c:\nodeprj-mathbmi-opnpm install
added 112 packages from 92 contributors and audited 251 packages in 4.079s
found 0 vulnerabilities
c:\nodepri-mathbmi-o>dir
 磁碟區 C 中的磁碟是 Windows
 磁碟區序號: FA82-371B
c:\nodeprj-mathbmi-o 的目錄
            上午 11:09
上午 11:09
2019/04/09
                         <DIR>
2019/04/09
                          <DIR>
            上午 11:03
2019/04/09
                                   1,362 app.js
            上午 11:03
2019/04/09
                         <DIR>
                                        bin
2019/04/09
            上午 11:03
                                    184 Dockerfile
            上午 11:09
2019/04/09
                         <DIR>
                                        node modules
            上午 11:03
                                 32,103 package-lock.json
2019/04/09
2019/04/09
                11:03
                                    511 package.json
2019/04/09
                11:03
                         <DIR>
                                        public
2019/04/09
                11:03
                                     62 README.md
           上午 11:03
2019/04/09
                         <DIR>
                                        routes
           上午 11:03
2019/04/09
                         <DIR>
                                        views
                個檔案
                                 34,222 位元組
              7 個目錄
                         11,806,027,776 位元組可用
c:\nodepri-mathbmi-o>
```

執行專案:

>node ./bin/www

c:\nodeprj-mathbmi-o>node ./bin/www Server IP=172.28.231.113

22. 打開瀏覽器,輸入PC的網址或 localhost:3000 (port 為 3000):



23. 操作介面截圖:



數學服務操作介面之截圖



計算 BMI 服務操作介面之截圖