# Git Lab 2

# 一、 本節目地

● GitHub 基本指令的使用及介紹

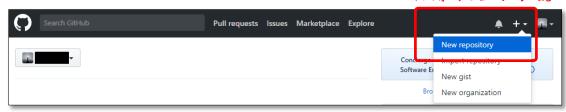
## 二、 設計重點

● 在本地端已經完成專案的初始化及檔案架構後,本次練習是要將建構 好的專案推送到遠端伺服器上

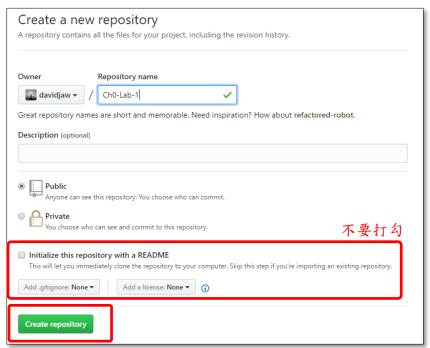
### 三、 設計步驟

1. 於 GitHub 上開設新的 Repository

點開網站上方的+號,並點選第一項

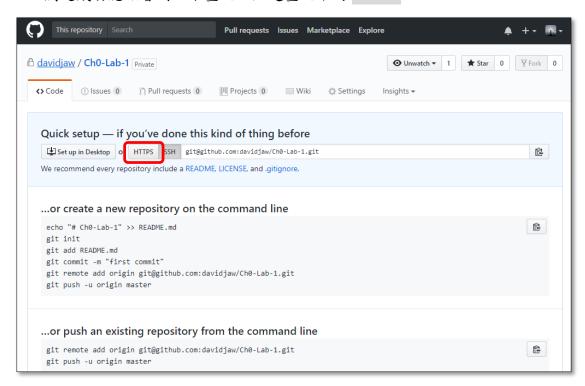


2. 在 Repository name 欄位輸入 Ch0-Lab-1



名稱輸入完畢後點選創建

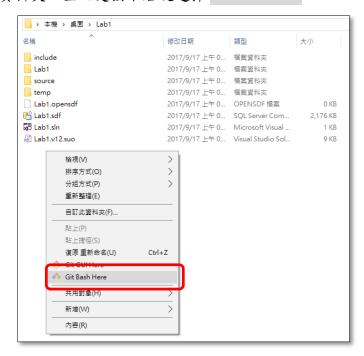
3. 創建成功應該會到以下畫面,點選畫面中的 HTTPS



4. 點選完畢後網址會變成 https 開頭,請複製該欄位內的文字(或點選紅框處)



5. 開啟專案資料夾,空白處按下右鍵選擇 Git Bash Here



6. 在視窗內輸入 git init 來在專案資料夾初始化本地資料庫

```
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1
$ git init
Initialized empty Git repository in C:/Users/Jdway/Desktop/Lab1/.git/
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)
$ |
```

成功的話會在專案資料夾中多出一個.git 的隱藏資料夾

> 本機 > 桌面 > Lab1			
名稱	修改日期	類型	大小
include	2017/9/17 上午 0	檔案資料夾	
Lab1	2017/9/17 上午 0	檔案資料夾	
source	2017/9/17 上午 0	檔案資料夾	
l temp	2017/9/17 上午 0	檔案資料夾	
Lab1.opensdf	2017/9/17 上午 0	OPENSDF 檔案	0 KB
🖺 Lab1.sdf	2017/9/17 上午 0	SQL Server Com	2,176 KB
■ Lab1.sln	2017/9/17 上午 0	Microsoft Visual	1 KB
🖟 Lab1.v12.suo	2017/9/17 上午 0	Visual Studio Sol	9 KB
git	2017/9/17 上午 0	檔案資料夾	

7. 使用 git ststus 以觀察目前檔案狀況

```
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)
$ git status
On branch master

No commits yet

Untracked files:
   (use "git add <file>..." to include in what will be committed)

        Lab1.opensdf
        Lab1.sdf
        Lab1.sln
        Lab1.v12.suo
        Lab1/
        source/
        temp/

nothing added to commit but untracked files present (use "git add" to track)
```

發現目前的修改都沒有被列入到 commit 佇列中

8. 使用 git add. 來將所有變更都加入到 commit 佇列

#### 注意:若沒有把 visual studio 關閉,會出現以下訊息

```
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)
$ git add .
error: open("Lab1.opensdf"): Permission denied
error: unable to index file Lab1.opensdf
fatal: adding files failed

Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)
$ |
```

#### 關閉後使用:

```
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Labl (master)

$ git add .
warning: CRLF will be replaced by LF in Labl.sln.
The file will have its original line endings in your working directory.
warning: CRLF will be replaced by LF in Labl/Labl.vcxproj.
The file will have its original line endings in your working directory.
warning: CRLF will be replaced by LF in Labl/Labl.vcxproj.filters.
The file will have its original line endings in your working directory.
warning: CRLF will be replaced by LF in Labl/Labl.vcxproj.user.
The file will have its original line endings in your working directory.
warning: CRLF will be replaced by LF in source/main.c.
The file will have its original line endings in your working directory.
warning: CRLF will be replaced by LF in temp/debug/Labl.log.
The file will have its original line endings in your working directory.
warning: CRLF will be replaced by LF in temp/debug/Labl.lastbuildstate
.The file will have its original line endings in your working directory.
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Labl (master)

$ |
```

(這些警告是因為助教的換行設定跟 Git 設定的不同,不必理會)

#### 9. 使用 git status 確認目前狀態

如上圖,所有檔案都被加入到 commit 佇列中

10. 使用 git commit 來提交一次檔案更動到本地資料庫中

```
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)

§ git commit -m "Complete Lab1"

[master (root-commit) 29c6bed] Complete Lab1

21 files changed, 145 insertions(+)
create mode 100644 Lab1.sdf
create mode 100644 Lab1.sln
create mode 100644 Lab1.vcxproj
create mode 100644 Lab1/Lab1.vcxproj
create mode 100644 Lab1/Lab1.vcxproj.filters
create mode 100644 Lab1/Lab1.vcxproj.ser
create mode 100644 Lab1/Lab1.vcxproj.user
create mode 100644 temp/debug/Lab1.exe
create mode 100644 temp/debug/Lab1.exe
create mode 100644 temp/debug/Lab1.pdg
create mode 100644 temp/debug/Lab1.pdg
create mode 100644 temp/debug/Lab1.tlog/CL.write.1.tlog
create mode 100644 temp/debug/Lab1.tlog/CL.write.1.tlog
create mode 100644 temp/debug/Lab1.tlog/cl.write.1.tlog
create mode 100644 temp/debug/Lab1.tlog/cl.command.1.tlog
create mode 100644 temp/debug/Lab1.tlog/link.command.1.tlog
create mode 100644 temp/debug/Lab1.tlog/link.read.1.tlog
create mode 100644 temp/debug/Lab1.tlog/link.read.1.tlog
create mode 100644 temp/debug/Lab1.tlog/link.write.1.tlog
create mode 100644 temp/debug/Lab1.tlog/link.write.1.tlog
create mode 100644 temp/debug/wri20.idb
create mode 100644 temp/debug/vri20.idb
create mode 100644 temp/debug/vri20.idb

Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)

§ j
```

語法:git commit -m"<提交訊息>" 將紅字部分替換成提交訊息即可

11. 使用 git push 將本地資料庫同步到遠端資料庫上

直接使用 git push 會發現我們尚未設定遠端資料庫的位置:

```
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)
$ git push
fatal: No configured push destination.
Either specify the URL from the command-line or configure a remote repository using
    git remote add <name> <url>
and then push using the remote name
    git push <name>

Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)
$ |
```

因此,我們將步驟四複製的那串網址設定為遠端伺服器:

```
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)
$ git remote add origin https://github.com/davidjaw/Ch0-Lab-1.git
Jdway@DESKTOP-GBM49C1 MINGW64 ~/Desktop/Lab1 (master)
$ |
```

語法:git remote add origin <url> 將紅字部分替換成複製的網址

#### 12. 使用 git push 將本地資料庫同步到遠端資料庫上

由於尚未設定本地的 branch 與遠端 branch 的關聯,在第一次使用 git push 時必 須如以下語法:

#### git push -u origin master

之後如果要再做提交程就只需要 git push 即可。

### 四、檢查重點

上傳成功後,GitHub 網頁應該會如下圖

