

Hackathon

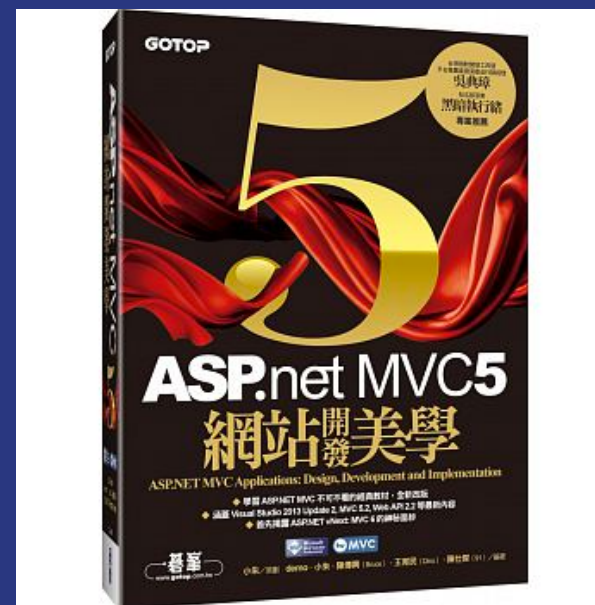
Dino Wang
Build School 講師

請尊重講師的著作權及智慧財產權!

Build School 課程之教材、程式碼等、僅供課程中學習用、請不要任意自行散佈、重製、分享，謝謝

講師介紹 – Dino Wang

- 微軟最有價值專家 – Azure
- twMVC Community Co-funder
- ASP.NET MVC 5 開發美學共同作者
- hexdigits
 - dino@hexdigits.com



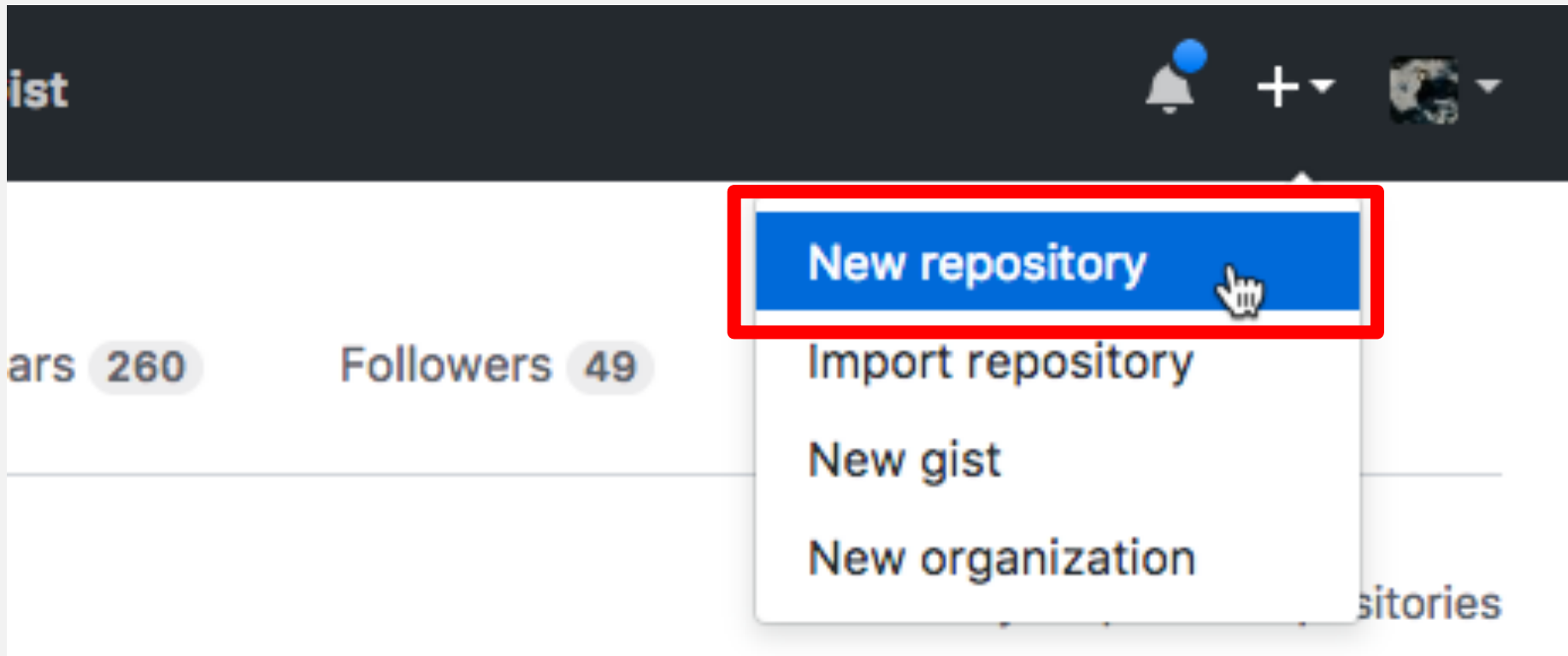
Azure in Action

輕鬆幾個步驟，公開你的作品到雲端 Azure

事前工作

- 作品集 C:\BS2017-Frontend\
 - 作品清單 (檔名和檔案說明)
- GitHub 帳號
- Azure 帳號

建立 GitHub repository



建立 GitHub repository

Create a new repository

A repository contains all the files for your project, including the revision history.

Owner



Repository name

bs2017-frontend



Great repository names are short and memorable. Need inspiration? How about **miniature-spork**.

Description (optional)



Public

Anyone can see this repository. You choose who can commit.



Private

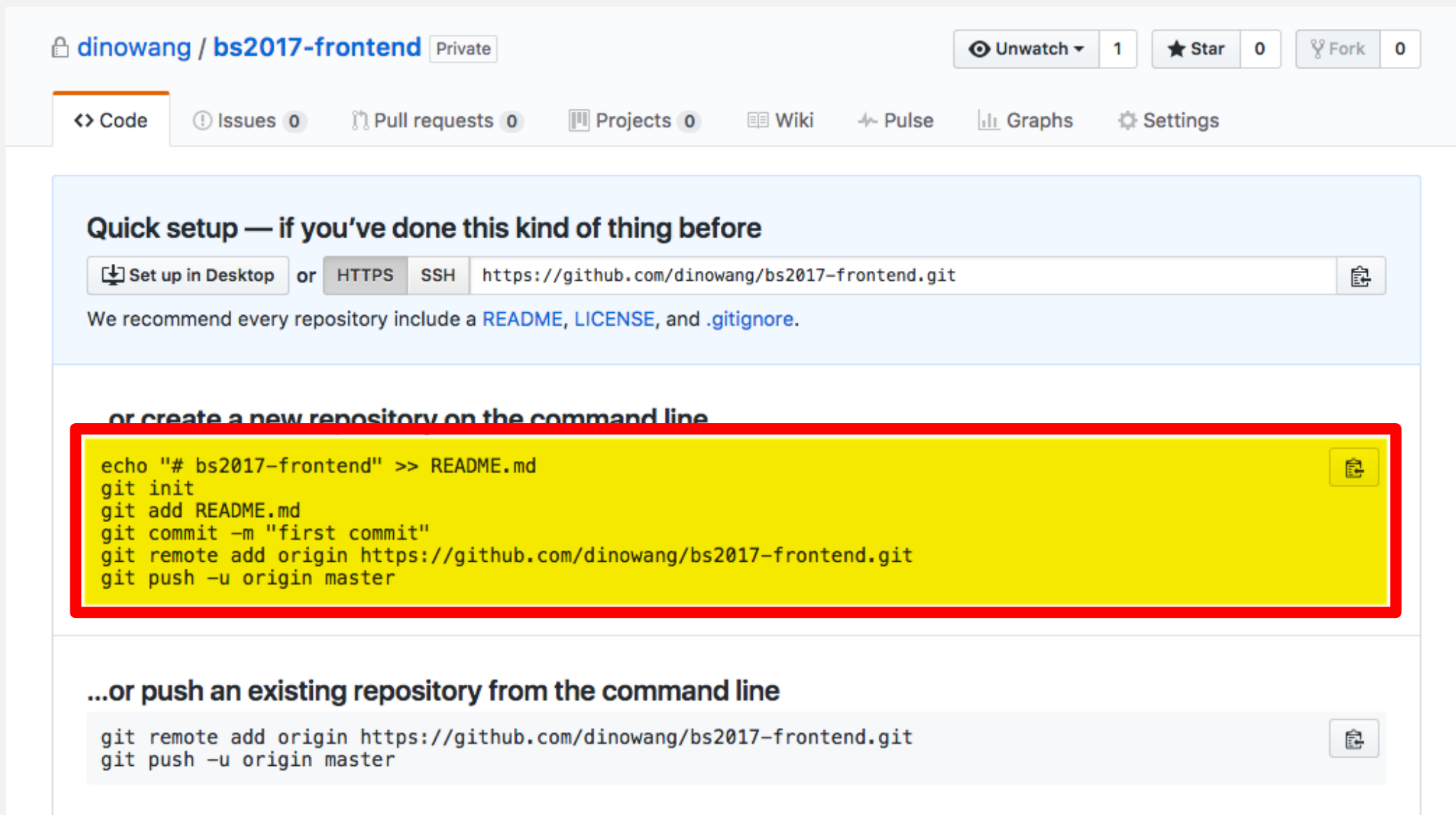
You choose who can see and commit to this repository.



Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

建立 GitHub repository





The screenshot shows the GitHub interface for a repository named 'bs2017-frontend' by user 'dinowang'. The repository is marked as 'Private'. At the top, there are buttons for 'Unwatch' (1), 'Star' (0), and 'Fork' (0). Below these are tabs for 'Code', 'Issues' (0), 'Pull requests' (0), 'Projects' (0), 'Wiki', 'Pulse', 'Graphs', and 'Settings'. The main content area has a light blue header with the title 'Quick setup — if you've done this kind of thing before'. Below this header, there are two options: 'Set up in Desktop' and 'HTTPS' (selected). The 'HTTPS' option shows the repository URL 'https://github.com/dinowang/bs2017-frontend.git'. A note below states: 'We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).' Below this, there is a section titled 'or create a new repository on the command line' which is highlighted with a red border. This section contains a yellow box with the following commands:

```
echo "# bs2017-frontend" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/dinowang/bs2017-frontend.git
git push -u origin master
```

 Below this, there is another section titled '...or push an existing repository from the command line' which contains the following commands:

```
git remote add origin https://github.com/dinowang/bs2017-frontend.git
git push -u origin master
```

Quick setup — if you've done this kind of thing before

 Set up in Desktop or **HTTPS** **SSH** `https://github.com/dinowang/bs2017-frontend.git` 

We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

or create a new repository on the command line

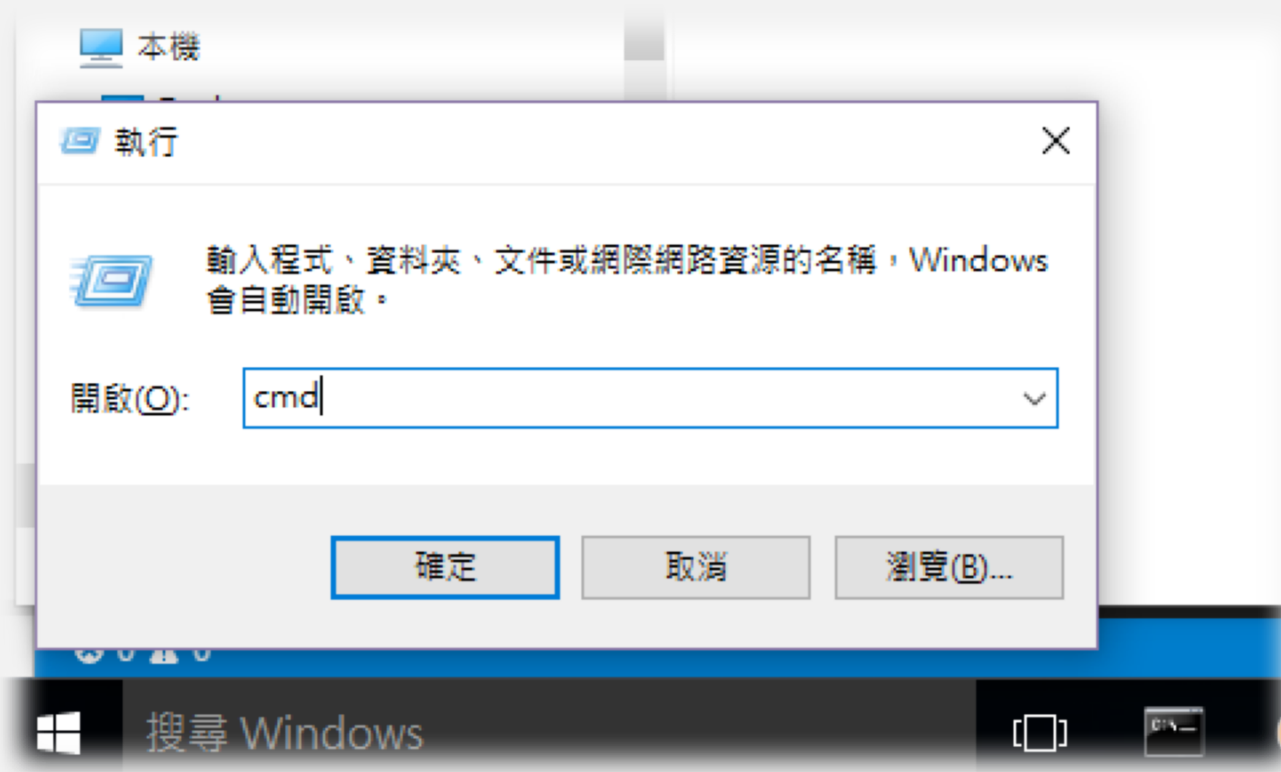
```
echo "# bs2017-frontend" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/dinowang/bs2017-frontend.git
git push -u origin master
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/dinowang/bs2017-frontend.git
git push -u origin master
```


打開命令列視窗

-  +  輸入 cmd，然後按下 enter



```
C:\Users\dinow>cd\
C:\>cd bs2017-frontend
C:\bs2017-frontend>echo "# bs2017-frontend" >> README.md
C:\bs2017-frontend>git init
Initialized empty Git repository in C:/bs2017-frontend/.git/
C:\bs2017-frontend>git add README.md
warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory.
C:\bs2017-frontend>git commit -m "first commit"
[master (root-commit) b5cf61f] first commit
Committer: Dino Wang <Dino Wang>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

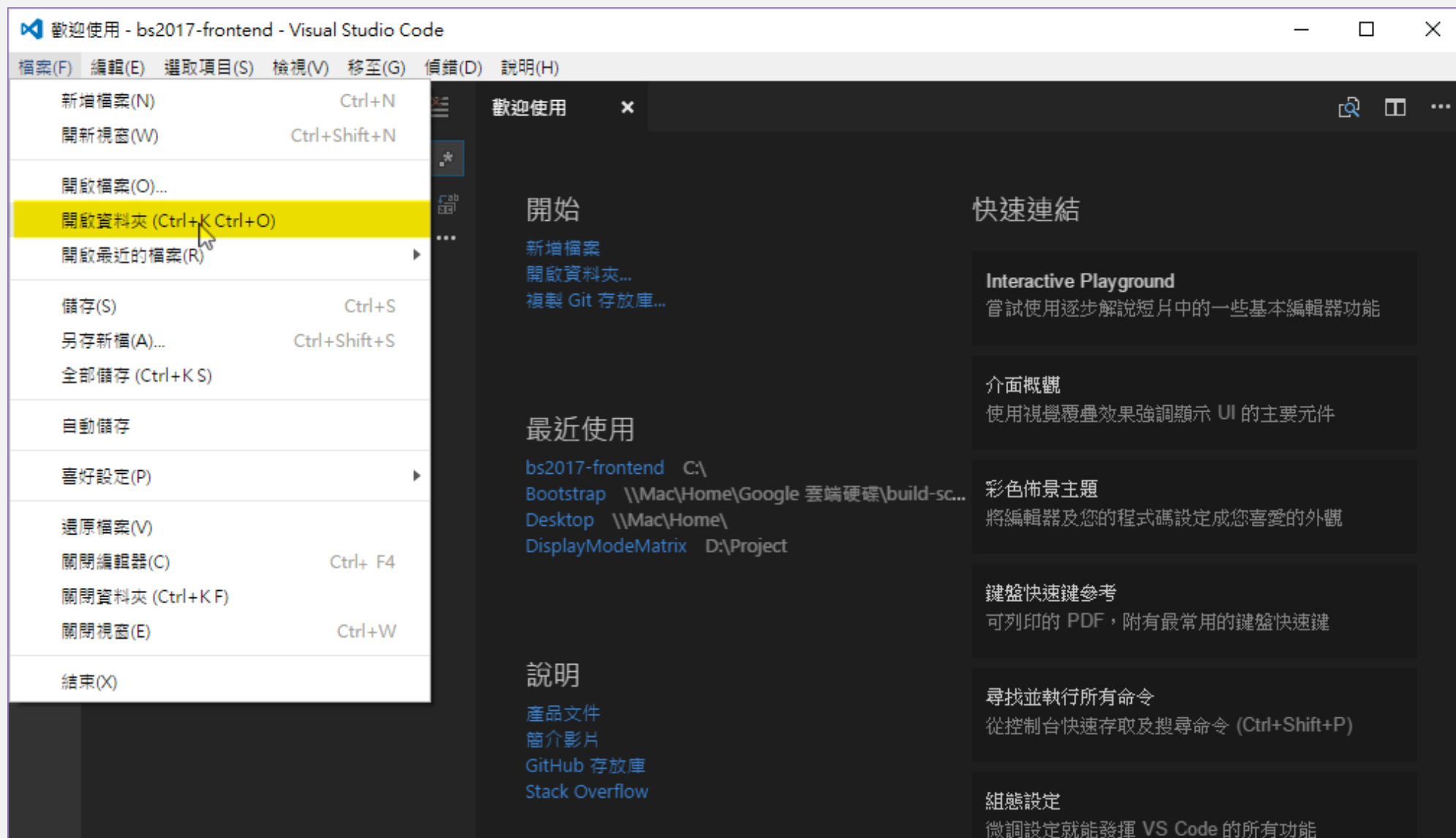
    git config --global --edit

After doing this, you may fix the identity used for this commit with:

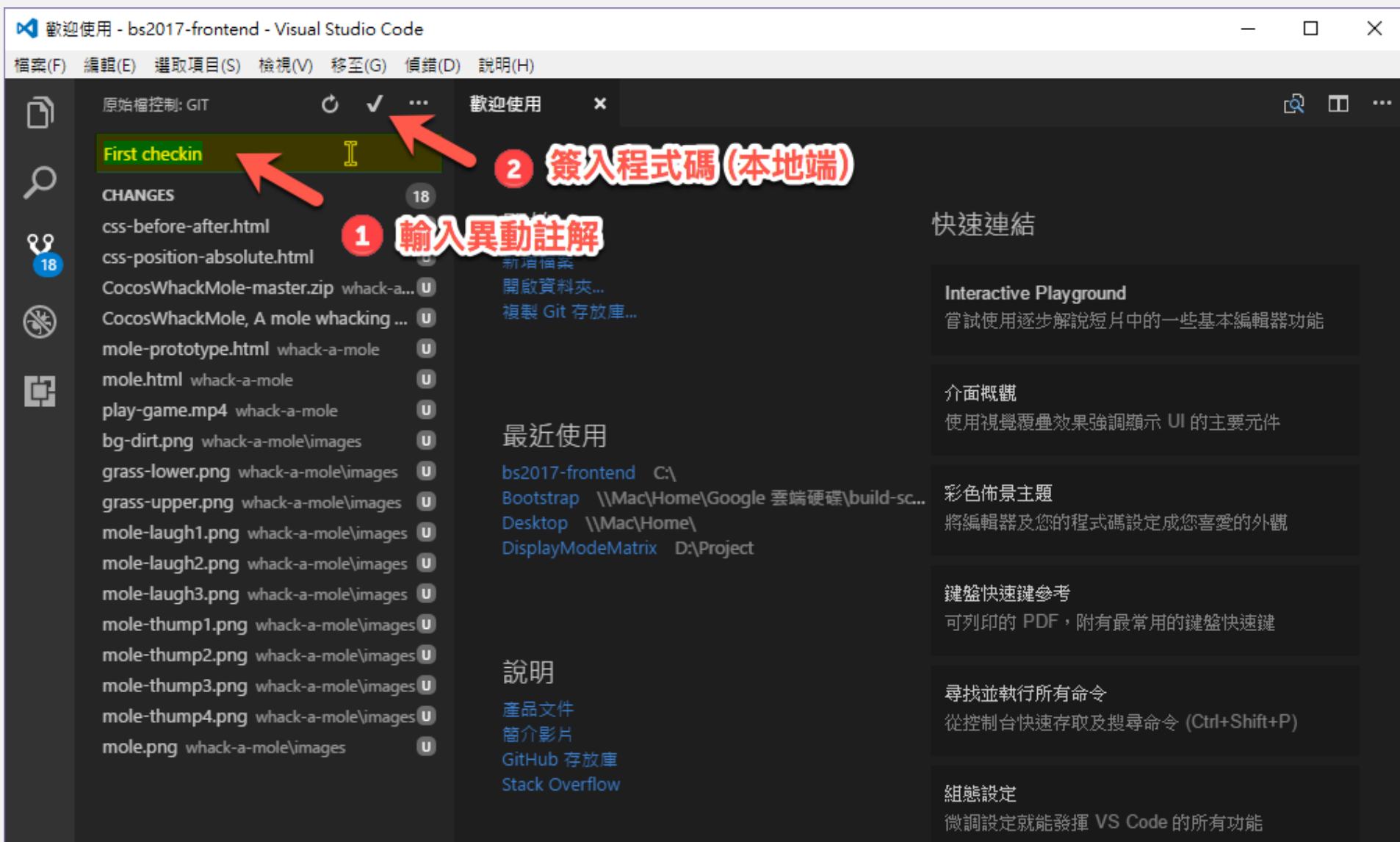
    git commit --amend --reset-author

warning: LF will be replaced by CRLF in README.md.
The file will have its original line endings in your working directory.
1 file changed, 3 insertions(+)
create mode 100644 README.md
C:\bs2017-frontend>git remote add origin https://github.com/dinowang/bs2017-frontend.git
C:\bs2017-frontend>git push -u origin master
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 226 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/dinowang/bs2017-frontend.git
 * [new branch]      master -> master
Branch master set up to track remote branch master from origin
```

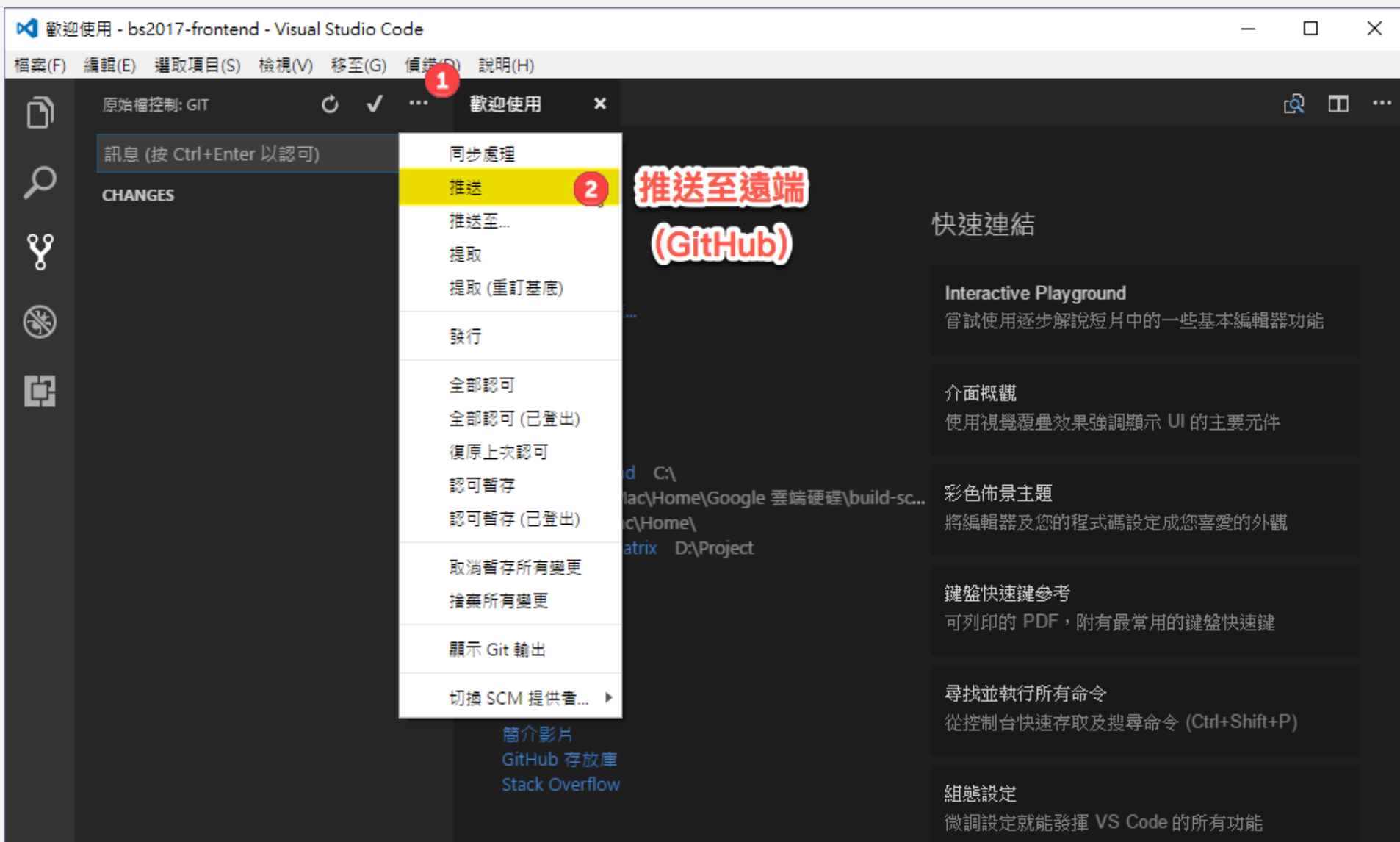
打開 VSCode，開啟資料夾 C:\BS2017-Frontend



簽入並完成程式碼推送至 GitHub



簽入並完成程式碼推送至 GitHub



簽入並完成程式碼推送至 GitHub

The screenshot shows the GitHub interface for a repository named 'bs2017-frontend'. The repository is private and has 1 star, 0 forks, and 0 issues. The 'Code' tab is selected, showing a commit history table. The commit history table has 4 rows, all with the message 'First checkin' and a timestamp of '6 minutes ago' or 'an hour ago'. The repository has 2 commits, 1 branch, 0 releases, and 0 contributors. The 'Clone or download' button is highlighted in green. The repository name 'bs2017-frontend' is visible at the bottom of the page.

GitHub repository page for **bs2017-frontend** (Private).

Navigation: [Pull requests](#) [Issues](#) [Gist](#)

Repository stats: [Unwatch](#) 1 [Star](#) 0 [Fork](#) 0

Repository tabs: [Code](#) [Issues](#) 0 [Pull requests](#) 0 [Projects](#) 0 [Wiki](#) [Pulse](#) [Graphs](#) [Settings](#)

No description, website, or topics provided. [Edit](#)

[Add topics](#)

Repository stats: 2 commits 1 branch 0 releases 0 contributors

Branch: master [New pull request](#) [Create new file](#) [Upload files](#) [Find file](#) [Clone or download](#)

Commit	Message	Time
Dino Wang	First checkin	Latest commit e94f519 6 minutes ago
[redacted]	First checkin	6 minutes ago
README.md	first commit	an hour ago
[redacted]	First checkin	6 minutes ago
[redacted]	First checkin	6 minutes ago

[README.md](#)

bs2017-frontend

建立 Azure Web App (<https://portal.azure.com/>)

Microsoft Azure

Search resources

dino.wang@msa.hinet...
DINOWANG

儀表板

+ New dashboard Edit dashboard Share Fullscreen Clone Delete

+ New

Dashboard

Resource groups

All resources

Recent

App Services

Virtual machines (classic)

Virtual machines

SQL databases

Cloud services (classic)

Subscriptions

SQL servers

All resources
ALL SUBSCRIPTIONS

buildschool-chu	App Service
hexdigits	SendGrid Account
twmvc23demo	Storage account

See more

Service health
MY RESOURCES

twmvc23demo
FUNCTION APP

Running

Marketplace

Subscriptions
Forecast expenses and costs to optimize your apps

Help + support

Feedback

建立 Azure Web App

The screenshot displays the Microsoft Azure portal interface. At the top, the header shows 'Microsoft Azure' followed by 'New > Web + Mobile'. The left sidebar contains a navigation menu with icons for various services. The 'Web + Mobile' category is highlighted with a red box. The main content area is divided into two panels. The left panel, titled 'New', includes a search bar and a list of categories: Compute, Networking, Storage, Web + Mobile (highlighted with a red box), Databases, Intelligence + analytics, Internet of Things, Enterprise Integration, Security + Identity, and Developer tools. The right panel, titled 'Web + Mobile', features a 'FEATURED APPS' section. This section lists four services: 'Web App' (highlighted with a red box), 'Mobile App', 'Logic App', and 'Web App On Linux (preview)'. Each service entry includes an icon, a title, and a brief description. The 'Web App' entry is described as 'Enjoy secure and flexible development, deployment, and scaling options for your web app.' The 'Web App On Linux (preview)' entry includes a 'PREVIEW' badge.

Microsoft Azure New > Web + Mobile

Search the marketplace

MARKETPLACE See all

- Compute >
- Networking >
- Storage >
- Web + Mobile >**
- Databases >
- Intelligence + analytics >
- Internet of Things >
- Enterprise Integration >
- Security + Identity >
- Developer tools >

FEATURED APPS See all

- Web App**
Enjoy secure and flexible development, deployment, and scaling options for your web app.
- Mobile App**
A scalable and secure backend that can be used to power apps on any platform – iOS, Android, Windows or
- Logic App**
Automate the access and use of data across clouds without writing code
- Web App On Linux (preview)**
Enjoy your web app natively hosted on Linux.
PREVIEW

dino.wang@msa.hinet... DINOWANG

建立 Azure Web App

Microsoft Azure

New > Web + Mobile > Web App



dino.wang@msa.hinet...
DINOWANG



Web App

Create



* App name

dino-bs2017-frontend



.azurewebsites.net

* Subscription

Visual Studio Ultimate with MSDN



* Resource Group ⓘ

☒ Create new

☐ Use existing

buildschool

* App Service plan/Location

buildschool-chu-Plan(East Asia)



Application Insights ⓘ

On

Off

App name 例：dino-bs2017-frontend

取一個自己網站的名字
這裡是全球唯一的名稱
不能與他人重複

Resource Group "buildschool"

網站：dino-bs2017-fronend.azurewebsites.net

建立 Azure Web App

Microsoft Azure All resources

Search, Notifications (3), Settings, Feedback, Help, Profile: dino.wang@msa.hinet... DINOWANG








All resources dinowang

+ Add Columns Refresh

Subscriptions: Visual Studio Ultimate with MSDN – Don't see a subscription? [Switch directories](#)

Filter by name...

15 items

NAME	RESOURCE GROUP	LOCATION	SUBSCRIPTION
 buildschool-chu	hexdigits	East Asia	Visual Studio Ultimate with MS..
 buildschool-chu-Plan	hexdigits	East Asia	Visual Studio Ultimate with MS..
 dino-bs2017-frontend	dino-bs2017-frontend	East Asia	Visual Studio Ultimate with MS..
 hexdigits	Default-Storage-EastAsia	East Asia	Visual Studio Ultimate with MS..
 hexdigits	hexdigits	East Asia	Visual Studio Ultimate with MS..
 SoutheastAsiaPlan	twmvc23demo	Southeast Asia	Visual Studio Ultimate with MS..
 twmvc23demo	twmvc23demo	Southeast Asia	Visual Studio Ultimate with MS..

School

Azure App Service 連結 GitHub repository

Microsoft Azure All resources > dino-bs2017-frontend

dino-bs2017-frontend App Service

Search (Ctrl+/)

Diagnose and solve problems

DEPLOYMENT

- Quickstart
- Deployment credentials
- Deployment slots
- Deployment options**
- Continuous Delivery (Preview)

SETTINGS

- Application settings
- Authentication / Authorization

Browse Stop Swap Restart Delete More

Click here to access our Quickstart guide for deploying code to your app →

Essentials ^

Resource group (change)	URL
dino-bs2017-frontend	http://dino-bs2017-frontend.azurewebsites...
Status	App Service plan/pricing tier
Running	buildschool-chu-Plan (Basic: 1 Small)
Location	FTP/deployment username
East Asia	dino-bs2017-frontend\comcamp2
Subscription name (change)	FTP hostname
Visual Studio Ultimate with MSDN	ftp://waws-prod-hk1-019.ftp.azurewebsites...
Subscription ID	FTPS hostname
dad37e7b-e8a1-47d1-a7fb-f605e298ee13	https://waws-prod-hk1-019.azurewebsite...

Monitoring

RequestsAndErrors
WEBSITEEXTENSION

Azure App Service 連結 GitHub repository

The screenshot shows the Microsoft Azure portal interface. The breadcrumb navigation at the top indicates the path: **Microsoft Azure** < dino-bs2017-frontend > Deployment source > Choose source. The user profile at the top right is dino.wang@msa.hinet... DINOWANG.

On the left, the 'Deployment source' pane is open, showing a red circle with the number '1' next to the 'Choose Source' button. The main area displays the 'Choose source' pane with a list of deployment providers:

- Visual Studio Team Services (By Microsoft)
- OneDrive (By Microsoft)
- Local Git Repository (By Git)
- GitHub (By GitHub)** - This option is highlighted with a red circle containing the number '2' and a mouse cursor icon.
- Bitbucket (By Atlassian)
- Dropbox (By Dropbox)
- External Repository

Overlaid on the right side of the screenshot is the red Chinese text: 部署來源選擇為 GitHub (Deployment source selected as GitHub).

Azure App Service 連結 GitHub repository

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, the breadcrumb path 'dino-bs2017-frontend > Deployment source > Choose project', and a user profile 'dino.wang@msa.hinet... DINOWANG'. The main content area is divided into two panels. The left panel, titled 'Deployment source', lists steps for setting up the deployment source: 'Choose Source GitHub', 'Authorization dinowang' (marked with a red circle 1), 'Choose your organization Personal (dinowang)' (marked with a red circle 2), 'Choose project bs2017-frontend' (marked with a red circle 3 and highlighted by a mouse cursor), 'Choose branch master', and 'Performance Test Not Configured'. The right panel, titled 'Choose project', shows a list of projects with 'bs2017-frontend' selected (marked with a red circle 4). To the right of the panels, a list of four steps in red text is displayed: 1. 設置 GitHub 帳號, 2. 設置 GitHub 組織, 3. 選取要部署的專案, and 4. 選 bs2017-frontend.

Microsoft Azure « dino-bs2017-frontend > Deployment source > Choose project

dino.wang@msa.hinet... DINOWANG

Deployment source Set up deployment source

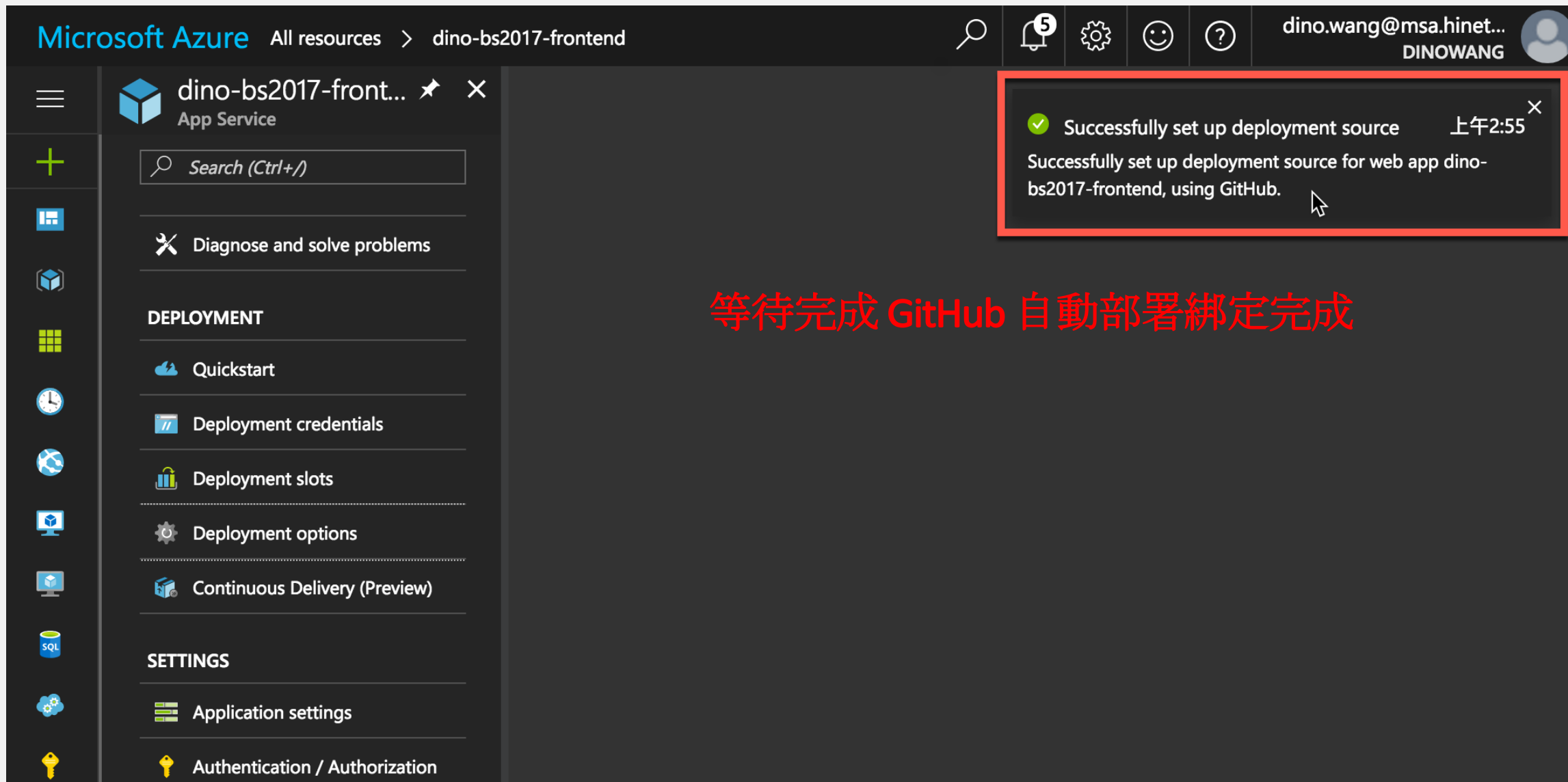
- * Choose Source GitHub
- * Authorization dinowang 1
- * Choose your organization Personal (dinowang) 2
- * Choose project bs2017-frontend 3
- * Choose branch master
- Performance Test Not Configured

Choose project

bs2017-frontend 4

1. 設置 GitHub 帳號
2. 設置 GitHub 組織
3. 選取要部署的專案
4. 選 bs2017-frontend

Azure App Service 連結 GitHub repository



Microsoft Azure All resources > dino-bs2017-frontend

dino.wang@msa.hinet... DINOWANG

Successfully set up deployment source 上午2:55

Successfully set up deployment source for web app dino-bs2017-frontend, using GitHub.

DEPLOYMENT

- Quickstart
- Deployment credentials
- Deployment slots
- Deployment options
- Continuous Delivery (Preview)

SETTINGS

- Application settings
- Authentication / Authorization

等待完成 GitHub 自動部署綁定完成

Azure App Service 連結 GitHub repository

The screenshot shows the Microsoft Azure portal interface. At the top, the breadcrumb navigation reads "All resources > dino-bs2017-frontend - Deployment options". The main header area includes the Microsoft Azure logo, a search icon, a notification bell icon (highlighted with a red box), a settings gear icon, a smiley face icon, a help icon, and the user profile "dino.wang@msa.hinet... DINOWANG".

The left sidebar contains a navigation menu with icons for various Azure services. The main content area is titled "dino-bs2017-frontend - Deployment options" and "App Service". It features a search bar and a list of navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, and a DEPLOYMENT section with links for Quickstart, Deployment credentials, Deployment slots, and Deployment options (which has a red badge with the number 1).

At the top of the main content area, there are action buttons: Setup, Sync, Disconnect, and Configure Performance Test. Below these, a red-bordered box highlights a status message:

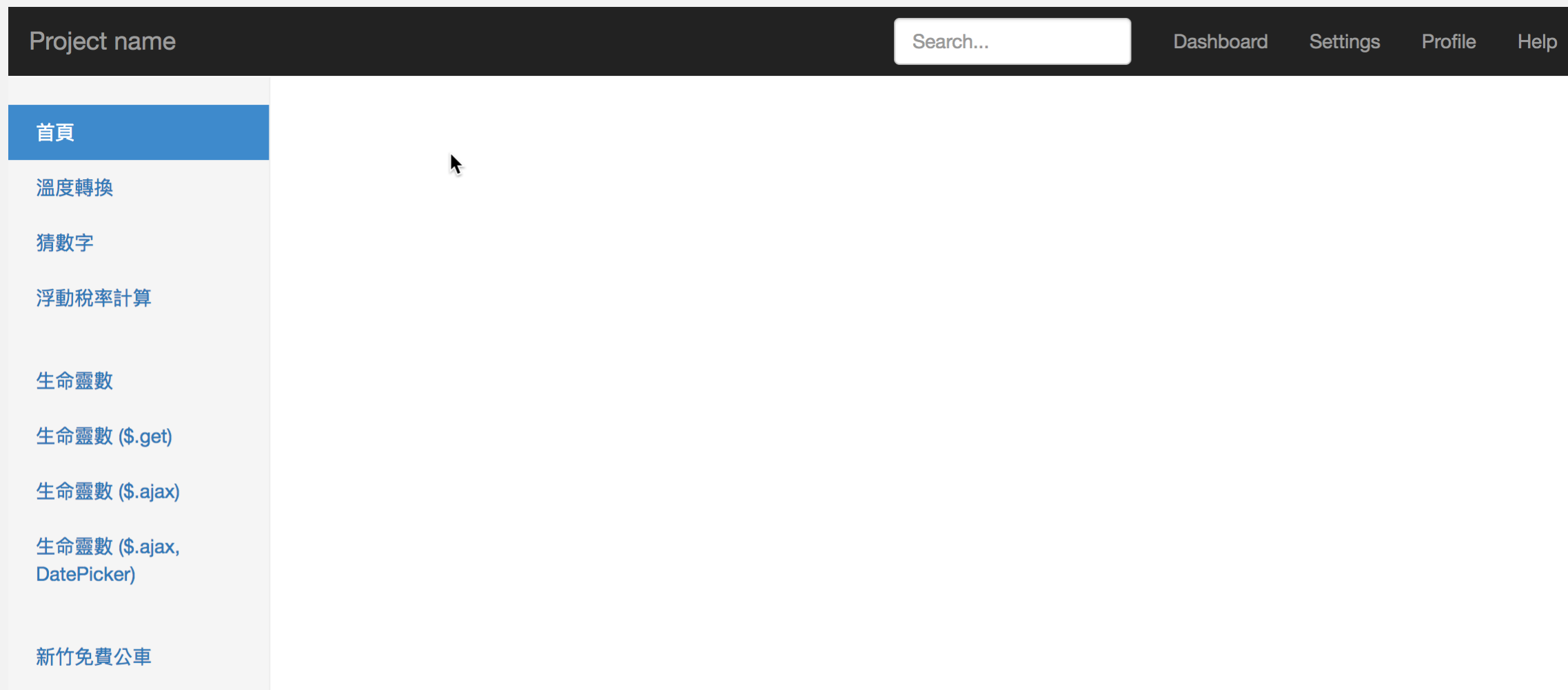
TUE 04/25

✓	First checkin GitHub Active 2:58 AM
---	--

Below this box, there is a red text overlay that reads: "由上方的簽入註解與時間可確定完成最新版本同步" (From the sign-in annotation and time, it can be determined that the latest version has been synchronized).

變更原始碼，重新簽入

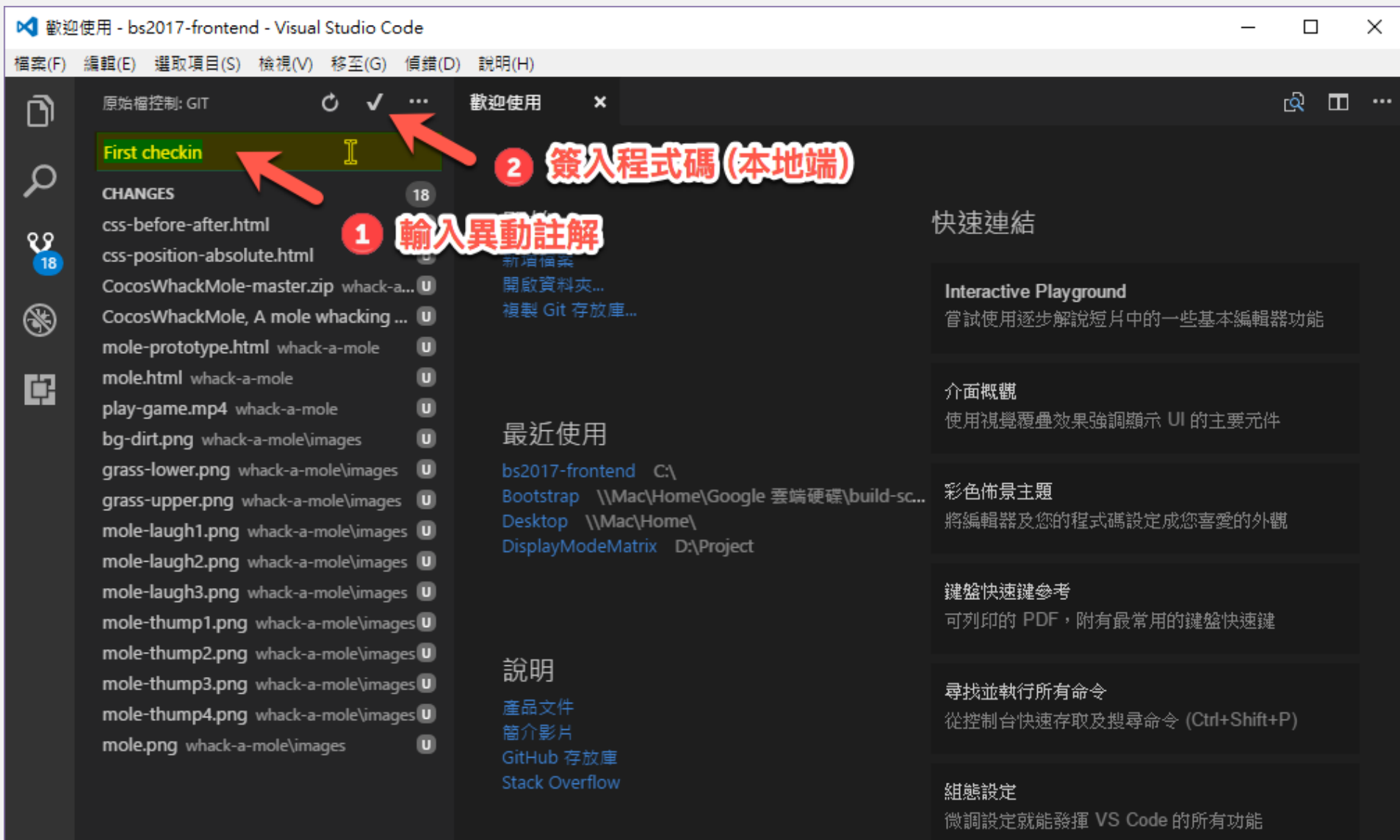
- 產生 index.html



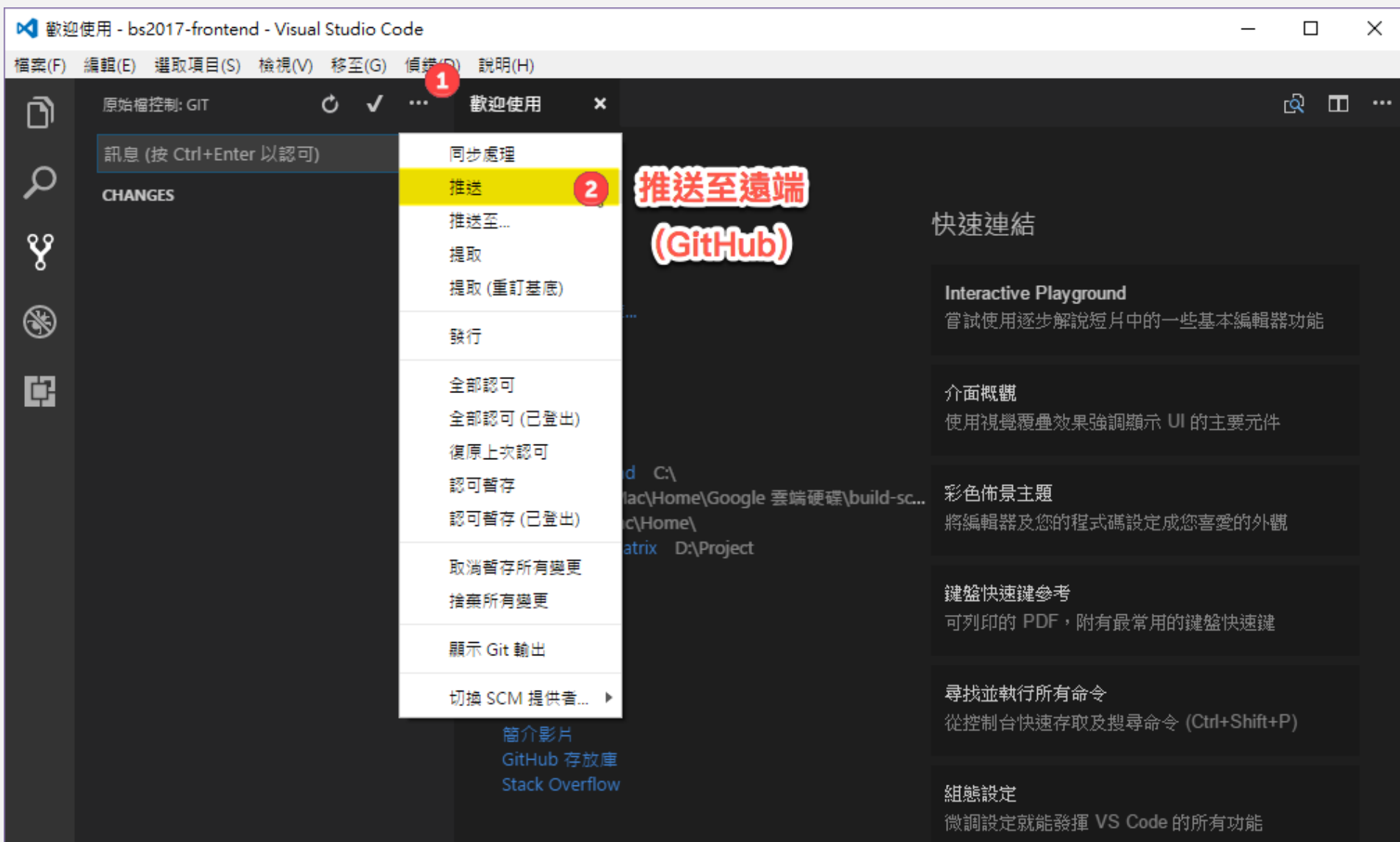
index.html

```
<div class="container-fluid">
  <div class="row">
    <div class="col-sm-3 col-md-2 sidebar">
      <ul class="nav nav-sidebar">
        <li class="active"><a href="index.html">首頁 <span class="sr-only">(current)</span></a></li>
        <li><a href="temperature-convert-complete.html">溫度轉換</a></li>
        <li><a href="guess-number-complete.html">猜數字</a></li>
        <li><a href="tax-rate-level-complete.html">浮動稅率計算</a></li>
      </ul>
      <ul class="nav nav-sidebar">
        <li><a href="horoscope-complete.html">生命靈數</a></li>
        <li><a href="horoscope-$get-complete.html">生命靈數 ($.get)</a></li>
        <li><a href="horoscope-ajax-complete.html">生命靈數 ($.ajax)</a></li>
        <li><a href="horoscope-ajax-ui-complete.html">生命靈數 ($.ajax, DatePicker)</a></li>
      </ul>
      <ul class="nav nav-sidebar">
        <li><a href="hsinchu-freebus-complete.html">新竹免費公車</a></li>
      </ul>
      <ul class="nav nav-sidebar">
        <li><a href="parking-complete.html">路外停車資訊</a></li>
        <li><a href="parking-$tmpl-gmap-complete.html">路外停車資訊 (樣板, 地圖)</a></li>
      </ul>
      <ul class="nav nav-sidebar">
        <li><a href="youbike-$tmpl-gmap-complete.html">Youbike (樣板, 地圖)</a></li>
        <li><a href="youbike-$tmpl-gmap-waterfall-complete.html">Youbike (樣板, 地圖, 瀑布流)</a></li>
      </ul>
    </div>
    <div class="col-sm-9 col-sm-offset-3 col-md-10 col-md-offset-2 main">
      <div class="container-fluid">
        <div class="row">
          <div class="col-md-12">
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

簽入並完成程式碼推送至 GitHub



簽入並完成程式碼推送至 GitHub



在這裏你將學到

Learn How to Learn

- 學新東西、新技術的能力
- 尋找解答的能力
- 隨時吸取新知識的能力

跟著你一輩子的能力 ...

對學生的好處

不只是就業銜接，培養自我解決問題的能力及信心！



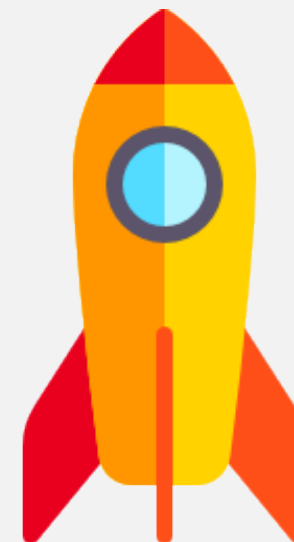
解決問題能力 (Problem-Solving)

- Learn how to learn
- Peer Learning
- Project-based



就業銜接 (Professional skills ready)

- Technical +
Soft Skill



擴散及影響 (Make impacts)

- Mentor
Networks

Q&A

課程資料 – <http://xxx.xxx>