

物聯網實務 HW13

電機碩一 11278008 林佳慧

日期:2023/12/13

Homework 13-1

Deploy your code to firebase hosting

Choose AIoTdemo Project

The screenshot shows the Firebase console interface. On the left sidebar, the 'AloTdemo' project is selected at the top. Below it, the 'Hosting' option is highlighted in the '專案總覽' (Project Overview) section. The main content area displays the 'Hosting' section with the title 'Hosting' and a description: '利用安全的全球內容傳遞網路，在彈指之間部署網路版和行動版網頁應用程式' (Use secure global content delivery network to deploy web and mobile web applications in a flash). A callout box labeled '1. Choose AloTdemo' points to the project name. Another callout box labeled '2. Hosting' points to the 'Hosting' option in the sidebar. A third callout box labeled '3. Get started' points to the '開始使用' (Get started) button. The bottom section features a guide titled '如何踏出第一步?' (How to take the first step?) and a video titled 'Introducing Firebase Hosting'.

1. Choose AloTdemo

2. Hosting

3. Get started

瞭解詳情

如何踏出第一步?
查看相關文件

Introducing Firebase Hosting

稍後觀看 分享

Set up Firebase Hosting

× 設定 Firebase 託管

1 安裝 Firebase CLI

如要透過 Firebase 託管功能來代管您的網站，則必須使用 Firebase CLI 這項指令列工具。

執行下列 [npm](#) 指令，藉此安裝 CLI 或更新至最新版 CLI。

```
$ npm install -g firebase-tools
```

1. Copy



2. Paste

```
npm install -g firebase-tools
```

3



一併顯示將 Firebase JavaScript SDK 新增至網頁應用程式的步驟

這項 SDK 含有 Cloud Firestore、Authentication、Performance Monitoring 等功能。您可以立即新增這項 SDK 或之後再新增。

4

下一步

Set up Firebase Hosting

✓ 安裝 Firebase CLI

2 初始化您的專案

請開啟終端機視窗，然後前往網頁應用程式的根目錄，或為其建立新的根目錄

登入 Google

```
$ firebase login
```

1. Copy

啟動專案

在應用程式的根目錄中執行這個指令：

```
$ firebase init
```

3. Copy

下一步

5

2. Paste

```
firebase login
```

4. Paste


```
firebase init
```

Set up Firebase Hosting

3 註冊應用程式

如果你預計會使用 Cloud Firestore、Authentication 或 Performance Monitoring 等 Firebase 產品，請為網頁應用程式建立暱稱來註冊：

註冊網頁應用程式

應用程式暱稱 

AloTdemoljh

Web App

註冊並繼續

4 新增 Firebase SDK

☐ 使用 npm ☒ 使用 `<script>` 標記

如果不希望使用建構工具，你可以透過這個選項新增及使用 Firebase JS SDK。使用這個選項即可輕鬆展開作業，但不建議用於已正式推出的應用程式。[瞭解詳情](#)。

使用任何 Firebase 服務之前，請先複製這些指令碼並貼到 `<body>` 標記的最下方：

```
<script type="module">
  // Import the functions you need from the SDKs you need
  import { initializeApp } from "https://www.gstatic.com/firebasejs/10.7.1/firebase-app.js";
  import { getAnalytics } from "https://www.gstatic.com/firebasejs/10.7.1/firebase-analytics.js";
  // TODO: Add SDKs for Firebase products that you want to use
  // https://firebase.google.com/docs/web/setup#available-libraries

  // Your web app's Firebase configuration
  // For Firebase JS SDK v7.20.0 and later, measurementId is optional
```

```
// Initialize Firebase
const app = initializeApp(firebaseConfig);
const analytics = getAnalytics(app);
</script>
```

你使用的是 npm，以及 webpack 或 Rollup 這類整合工具嗎？[查看模組 SDK](#)。

如要進一步瞭解適用於網頁應用程式的 Firebase，請查看下列資源：[開始使用](#)、[Web SDK API 參考資料](#)、[使用範例](#)。

下一步

```
<script type="module">
  // Import the functions you need from the SDKs you need
  import { initializeApp } from "https://www.gstatic.com/firebasejs/10.7.1/firebase-app.js";
  import { getAnalytics } from "https://www.gstatic.com/firebasejs/10.7.1/firebase-analytics.js";
  // TODO: Add SDKs for Firebase products that you want to use
  // https://firebase.google.com/docs/web/setup#available-libraries

  // Your web app's Firebase configuration
  // For Firebase JS SDK v7.20.0 and later, measurementId is optional
```

```
// Initialize Firebase
const app = initializeApp(firebaseConfig);
const analytics = getAnalytics(app);
</script>
```

2. Paste

1. Copy

3

2. Paste

```
firebase deploy
```

5 部署至 Firebase 託管

準備就緒後，即可部署網頁應用程式
將 HTML、CSS 和 JS 等靜態檔案加入應用程式的部署目錄 (預設為「公開」)。接著，從應用程式
的根目錄執行下列指令：

```
$ firebase deploy
```



1. Copy

部署完成之後，請前往「aiotdemo-f60d9.web.app」查看應用程式
需要協助嗎？您可以參閱[代管說明文件](#)

3

前往控制台

Open the Web App

Hosting

管理網站

資訊主頁

用量

舊有版本

正在等待你建立第一個版本

操作說明

網域

[aiotdemo-f60d9.web.app](#) 

預設

[aiotdemo-f60d9.firebaseio.com](#) 

預設

新增自訂網域

查看全部 2 個網域 →

Web App

Site Not Found

Why am I seeing this?

There are a few potential reasons:

1. You haven't deployed an app yet.
2. You may have deployed an empty directory.
3. This is a custom domain, but we haven't finished setting it up yet.

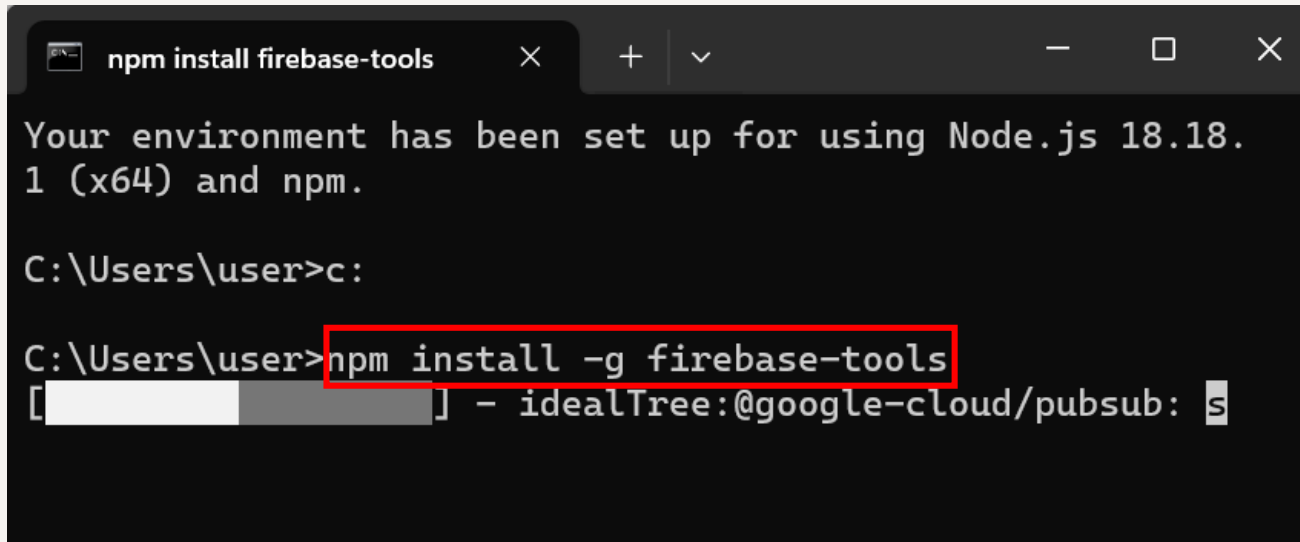
How can I deploy my first app?

Refer to our [hosting documentation](#) to get started.



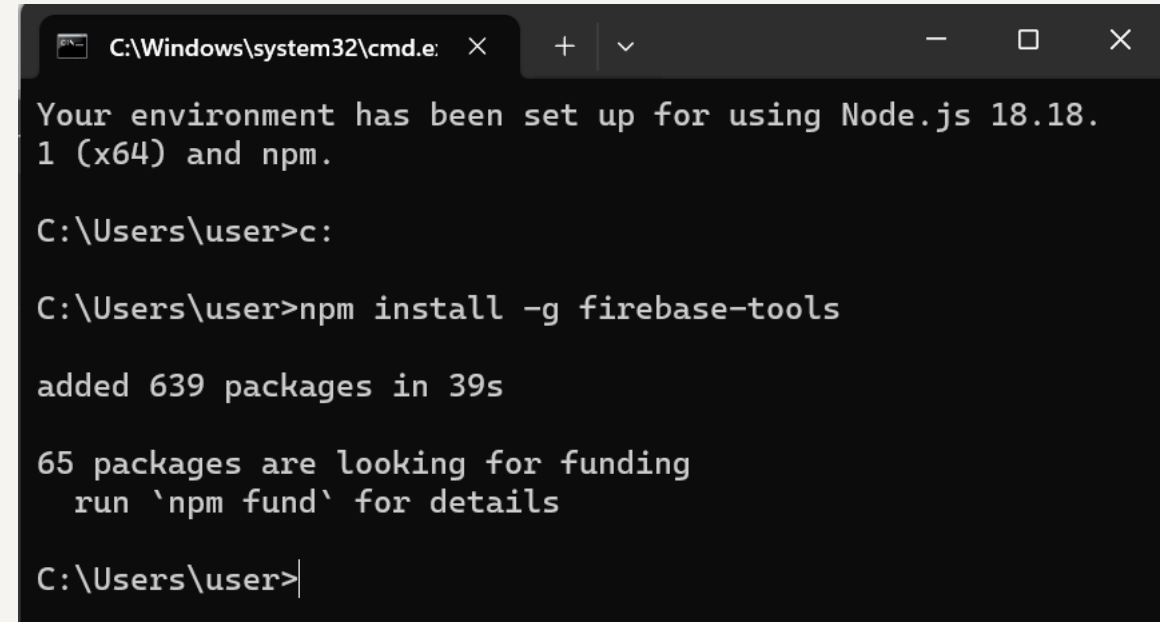
Node.js command

1. npm install -g firebase-tools



```
npm install firebase-tools
Your environment has been set up for using Node.js 18.18.1 (x64) and npm.
C:\Users\user>c:
C:\Users\user>npm install -g firebase-tools
[Progress bar] - idealTree:@google-cloud/pubsub: S
```

2. Install finished



```
C:\Windows\system32\cmd.e:
Your environment has been set up for using Node.js 18.18.1 (x64) and npm.
C:\Users\user>c:
C:\Users\user>npm install -g firebase-tools
added 639 packages in 39s
65 packages are looking for funding
  run 'npm fund' for details
C:\Users\user>
```

Node.js command

3. Use “mkdir” to new a folder

```
C:\Windows\system32\cmd.e: X + v - □ X

Your environment has been set up for using Node.js 18.18.1 (x64) and npm.

C:\Users\user>c:

C:\Users\user>npm install -g firebase-tools

added 639 packages in 39s

65 packages are looking for funding
  run `npm fund` for details

C:\Users\user>mkdir ljh1213
```

4. Use “cd” to go to the folder

```
C:\Windows\system32\cmd.e: X + v - □ X

Your environment has been set up for using Node.js 18.18.1 (x64) and npm.

C:\Users\user>c:

C:\Users\user>npm install -g firebase-tools

added 639 packages in 39s

65 packages are looking for funding
  run `npm fund` for details

C:\Users\user>mkdir ljh1213

C:\Users\user>cd ljh1213
```

Node.js command

5. Firebase login

```
C:\Windows\system32\cmd.e: x + v - □ x
Your environment has been set up for using Node.js 18.18.1 (x64) and npm.
C:\Users\user>c:
C:\Users\user>npm install -g firebase-tools
added 639 packages in 39s
65 packages are looking for funding
  run `npm fund` for details
C:\Users\user>mkdir ljh1213
C:\Users\user>cd ljh1213
C:\Users\user\ljh1213>firebase login
i Firebase optionally collects CLI and Emulator Suite usage and error reporting information to help improve our products. Data is collected in accordance with Google's privacy policy (https://policies.google.com/privacy) and is not used to identify you.
? Allow Firebase to collect CLI and Emulator Suite usage and error reporting information? (Y/n) Y
```





「Firebase CLI」想要存取您的 Google 帳戶



lindahui0204@gmail.com

這麼做將允許「**Firebase CLI**」進行以下操作：

- 查看、編輯、設定和刪除您的 Google Cloud 資料，以及查看您 Google 帳戶的電子郵件地址。
-  查看及管理您的所有 Firebase 資料和設定。
- 查看您的 Cloud Platform 專案。

確認「**Firebase CLI**」是您信任的應用程式

這麼做可能會將機密資訊提供給這個網站或應用程式。
您隨時可以前往 [Google 帳戶](#) 頁面查看或移除存取權。

瞭解 Google 如何協助您[安全地分享資料](#)。

詳情請參閱「**Firebase CLI**」的《[隱私權政策](#)》和《[服務條款](#)》。

取消

允許

Woohoo!

Firebase CLI Login Successful

You are logged in to the Firebase Command-Line interface. You can immediately close this window and continue using the CLI.

```
C:\Windows\system32\cmd.exe X + - □ X

C:\Users\user>cd ljh1213

C:\Users\user\ljh1213>firebase login
i  Firebase optionally collects CLI and Emulator Suite usage and error reporting information to help improve our products. Data is collected in accordance with Google's privacy policy (https://policies.google.com/privacy) and is not used to identify you.

? Allow Firebase to collect CLI and Emulator Suite usage and error reporting information? Yes
i  To change your data collection preference at any time, run `firebase logout` and log in again.

Visit this URL on this device to log in:
https://accounts.google.com/o/oauth2/auth?client_id=563584335869-fgrhgmd47bqnekij5i8b5pr03ho849e6.apps.googleusercontent.com&scope=email%20openid%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloudplatformprojects.readonly%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Ffirebase%20https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform&response_type=code&state=693628355&redirect_uri=http%3A%2F%2Flocalhost%3A9005

Waiting for authentication...

+ Success! Logged in as lindahui0204@gmail.com

C:\Users\user\ljh1213>
```

Success log in

Firestore init

```
C:\Users\user\ljh1213>firebase init
```

```
#####  #####  #####  #####  #####  #####  #####  #####  
##      ##  ##      ##  ##      ##      ##  ##      ##  
#####  ##  #####  #####  #####  #####  #####  #####  
##      ##  ##      ##  ##      ##      ##  ##      ##  
##      #####  ##  #####  #####  ##      ##  #####  #####
```

```
You're about to initialize a Firebase project in this directory:  
C:\Users\user\ljh1213
```

```
? Are you ready to proceed? (Y/n) Y
```

enter

```
C:\Users\user\ljh1213
```

```
? Are you ready to proceed? Yes
```

```
? Which Firebase features do you want to set up for this  
directory? Press Space to select features, then Enter to  
confirm your choices. (Press <space> to select, <a> to toggle  
all, <i> to invert selection, and <enter> to proceed)
```

```
Firestore
```

```
( ) Functions: Configure a Cloud Functions directory and its  
files
```

```
>( ) Hosting: Configure files for Firebase Hosting and  
(optionally) set up GitHub Action deploys
```

```
( ) Hosting: Set up GitHub Action deploys
```

```
( ) Storage: Configure a security rules file for Cloud Storage(Move up and  
down to reveal more choices)
```

Up and down keyboads

You're about to initialize a Firebase project in this directory:

C:\Users\user\ljh1213

? Are you ready to proceed? **Yes**

? Which Firebase features do you want to set up for this directory? Press Space to select features, then Enter to confirm your choices. (Press **<space>** to select, **<a>** to toggle all, **<i>** to invert selection, and **<enter>** to proceed)

Database and (optionally) provision default instance

() Firestore: Configure security rules and indexes files for Firestore

() Functions: Configure a Cloud Functions directory and its files

>(*) Hosting: Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys

() Hosting: Set up GitHub Action deploys

() Storage: Configure a security rules file for Cloud Storage

(Move up and down to reveal more choices)

1. "space" keyboard

2. "enter" keyboard

C:\Users\user\ljh1213

? Are you ready to proceed? **Yes**

? Which Firebase features do you want to set up for this directory? Press Space to select features, then Enter to confirm your choices. **Hosting: Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys**

=== Project Setup

First, let's associate this project directory with a Firebase project. You can create multiple project aliases by running `firebase use --add`, but for now we'll just set up a default project.

? Please select an option: (Use arrow keys)

> Use an existing project

Create a new project

Add Firebase to an existing Google Cloud Platform project

Don't set up a default project

enter

You're about to initialize a Firebase project in this directory:

C:\Users\user\ljh1213

? Are you ready to proceed? **Yes**

? Which Firebase features do you want to set up for this directory? Press Space to select features, then Enter to confirm your choices. **Hosting:**
Configure files for Firebase Hosting and (optionally) set up GitHub Action deploys

=== Project Setup

First, let's associate this project directory with a Firebase project. You can create multiple project aliases by running `firebase use --add`, but for now we'll just set up a default project.

? Please select an option: **Use an existing project**

? Select a default Firebase project for this directory: (Use arrow keys)

> **aiotdemo-f60d9 (AIoTdemo)**

totoras-57d56 (totoras)

enter

? Please select an option: **Use an existing project**

? Select a default Firebase project for this directory: **aiotdemo-f60d9**
(AIoTdemo)

i Using project aiotdemo-f60d9 (AIoTdemo)

=== Hosting Setup

Your public directory is the folder (relative to your project directory) that will contain Hosting assets to be uploaded with `firebase deploy`. If you have a build process for your assets, use your build's output directory.

enter

? What do you want to use as your public directory? (public) |

```
? Please select an option: Use an existing project
? Select a default Firebase project for this directory: aiotdemo-f60d9
(AIoTdemo)
i Using project aiotdemo-f60d9 (AIoTdemo)
```

=== Hosting Setup

Your public directory is the folder (relative to your project directory) that will contain Hosting assets to be uploaded with firebase deploy. If you have a build process for your assets, use your build's output directory.

```
? What do you want to use as your public directory? public
? Configure as a single-page app (rewrite all urls to /index.htm
? Configure as a single-page app (rewrite all urls to
/index.html)? (y/N) N
```

enter

=== Hosting Setup

Your public directory is the folder (relative to your project directory) that will contain Hosting assets to be uploaded with firebase deploy. If you have a build process for your assets, use your build's output directory.

```
? What do you want to use as your public directory? public
? Configure as a single-page app (rewrite all urls to /index.htm
? Configure as a single-page app (rewrite all urls to
/index.html)? No
? Set up automatic builds and deploys with GitHub? (y/N) N
```

enter

=== Hosting Setup

Your public directory is the folder (relative to your project directory) that

will contain Hosting assets to be uploaded with `firebase deploy`.

If you have a build process for your assets, use your build's output directory.

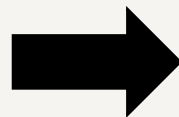
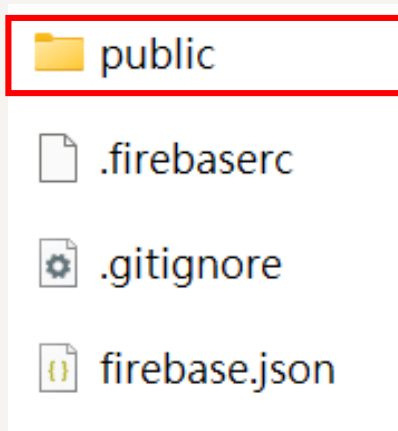
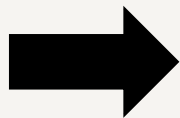
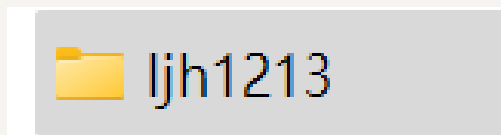
```
? What do you want to use as your public directory? public
? Configure as a single-page app (rewrite all urls to /index.htm
? Configure as a single-page app (rewrite all urls to
/index.html)? No
? Set up automatic builds and deploys with GitHub? No
+ Wrote public/404.html
+ Wrote public/index.html

i Writing configuration info to firebase.json...
i Writing project information to .firebaserc...
i Writing gitignore file to .gitignore...

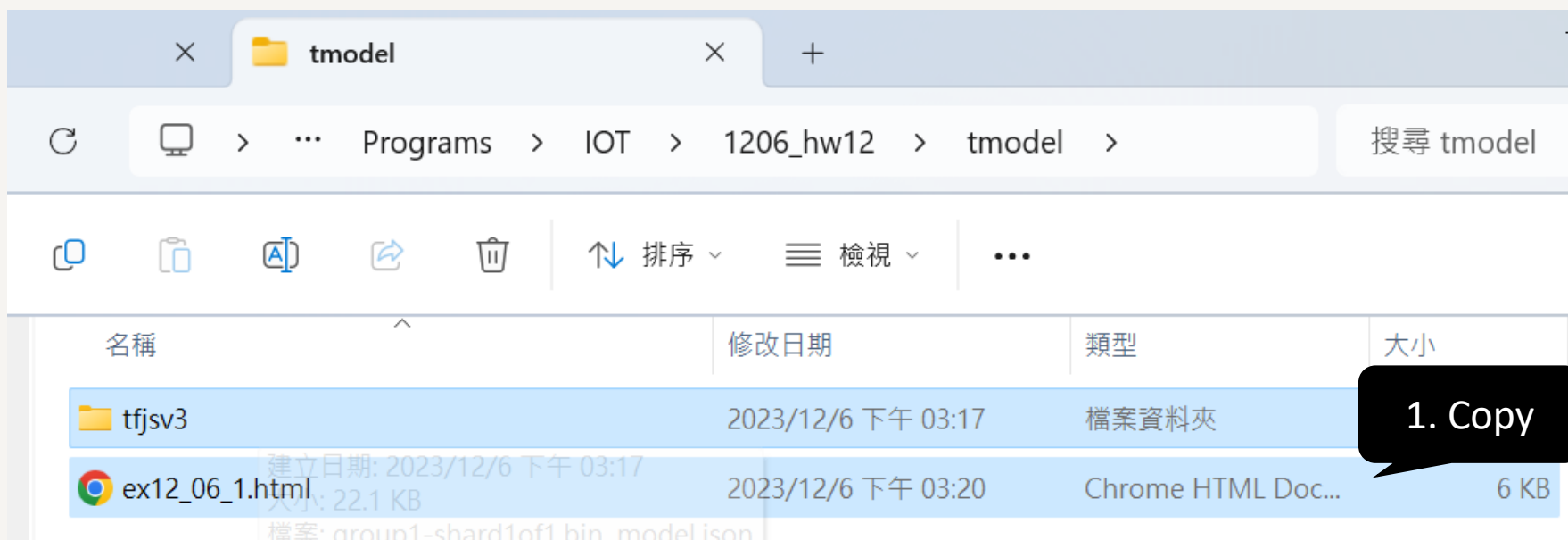
+ Firebase initialization complete!
```

```
C:\Users\user\ljh1213>
```

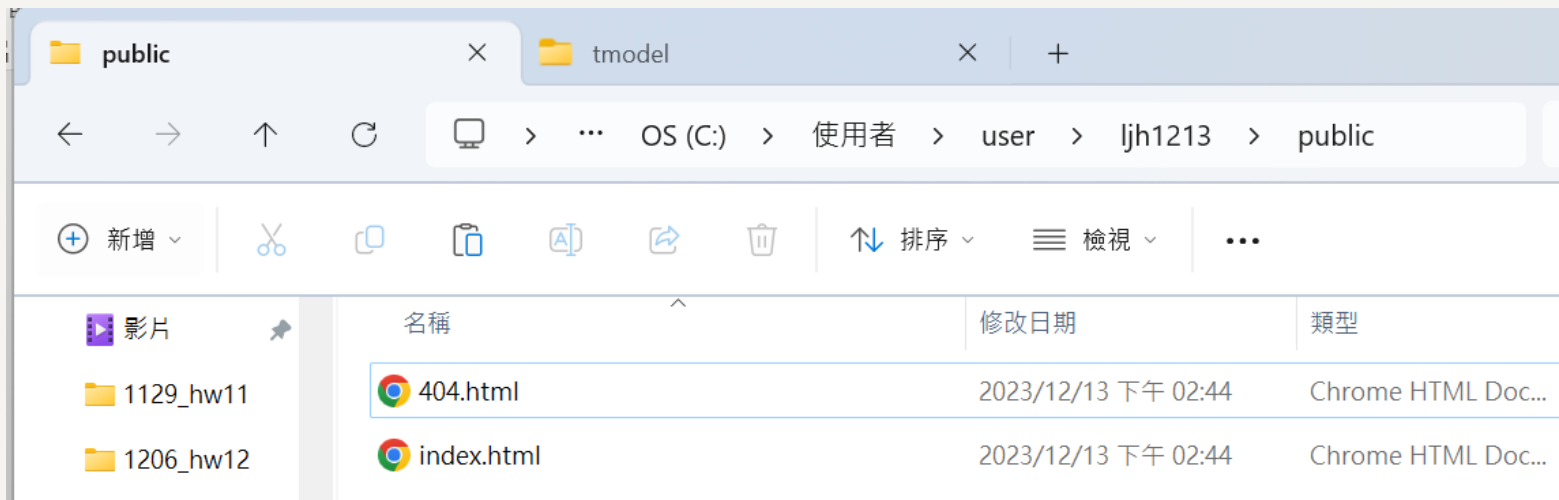
1. C:\Users\user\ljh1213



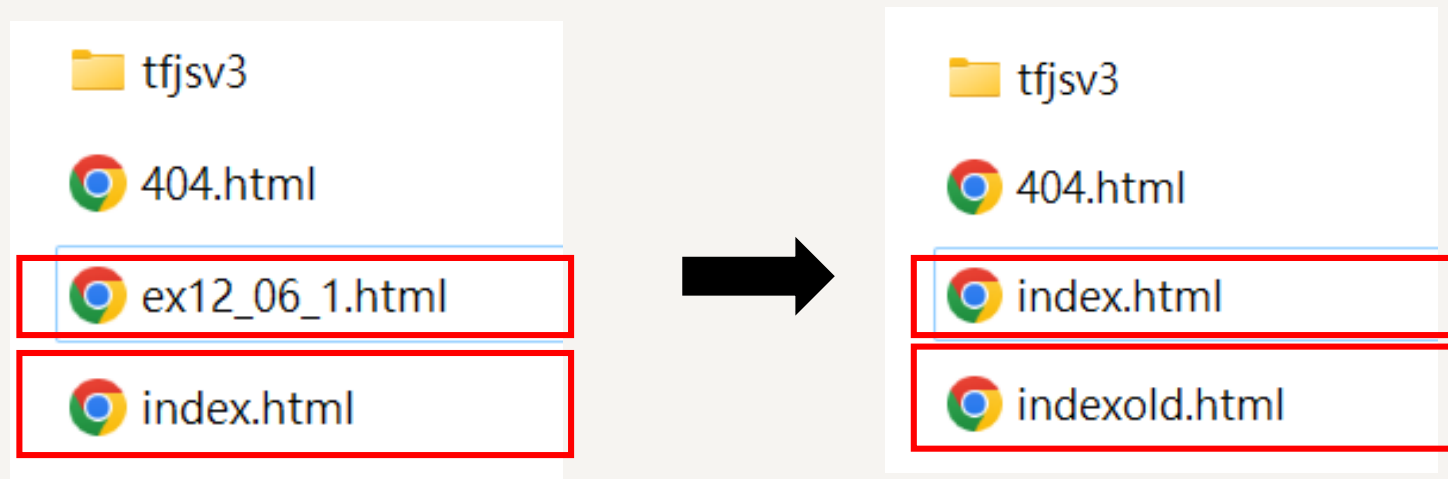
2. C:\Programs\IOT\1206_hw12\tmodel



3. Paste to the C:\Users\user\ljh1213\public



4. Rename files



Firebase deploy

```
C:\Users\user\ljh1213>firebase deploy
```

Deploy complete

```
C:\Users\user\ljh1213>firebase deploy

=== Deploying to 'aiotdemo-f60d9'...

i  deploying hosting
i  hosting[aiotdemo-f60d9]: beginning deploy...
i  hosting[aiotdemo-f60d9]: found 5 files in public
+  hosting[aiotdemo-f60d9]: file upload complete
i  hosting[aiotdemo-f60d9]: finalizing version...
+  hosting[aiotdemo-f60d9]: version finalized
i  hosting[aiotdemo-f60d9]: releasing new version...
+  hosting[aiotdemo-f60d9]: release complete

+  Deploy complete!

Project Console: https://console.firebase.google.com/project/aiotdemo-f60d9/overview
Hosting URL: https://aiotdemo-f60d9.web.app

C:\Users\user\ljh1213>
```

Open Web App

Hosting

管理網站

資訊主頁

用量

舊有版本

正在等待你建立第一個版本

操作說明

網域

[aiotdemo-f60d9.web.app](#) 

預設

[aiotdemo-f60d9.firebaseio.com](#) 

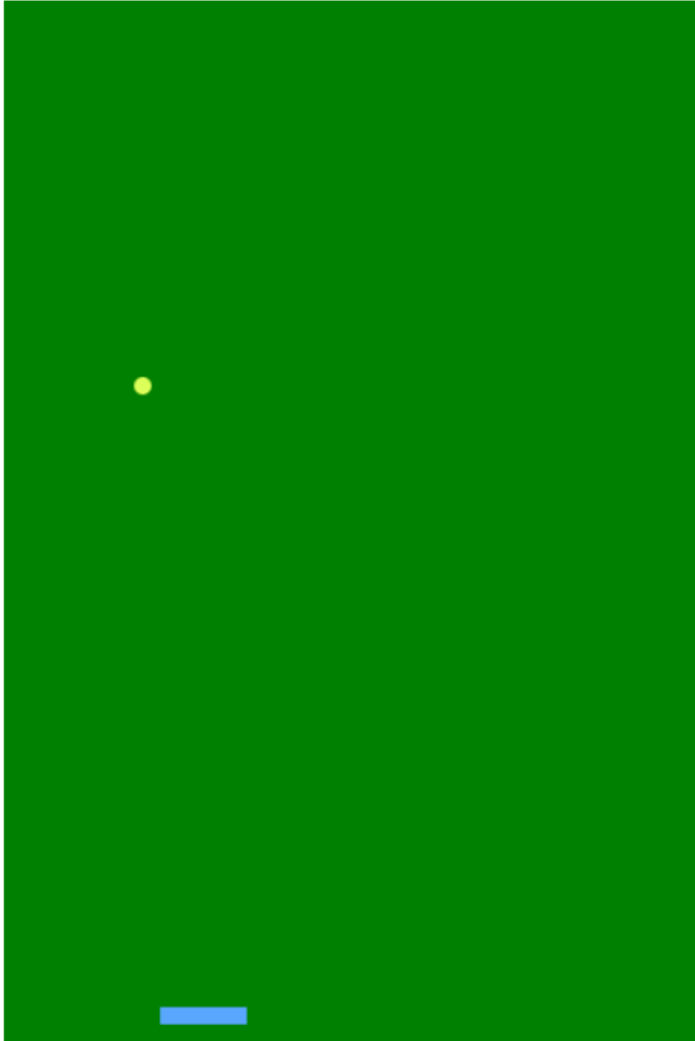
預設

新增自訂網域

查看全部 2 個網域 →

Result

AI Playing Ping Pong Game



<https://aiotdemo-f60d9.web.app/>