Software Studio 軟體設計與實驗

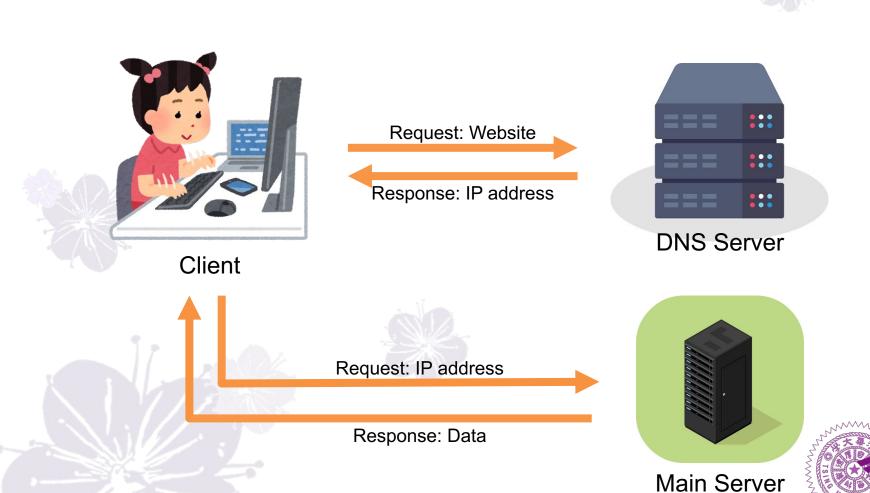
Firebase Hosting



Department of Computer Science
National Tsing Hua University



Basic Web Workflow



What is **Firebase**?

- Firebase is an application cloud development platform built by Google.
- Help developers quickly set up backend services in the cloud which effectively shorten the application development time.





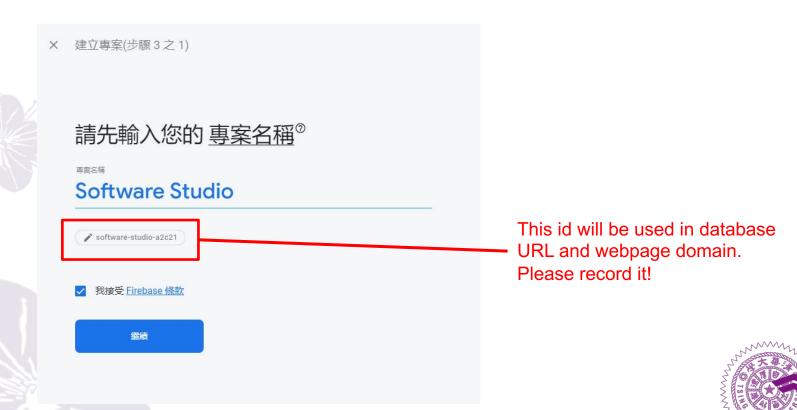
Step by step

- 1. Create a new Firebase Project
- 2. Create a new Web App on Firebase Console
- 3. Install the Firebase CLI
- 4. Host Your Webpage

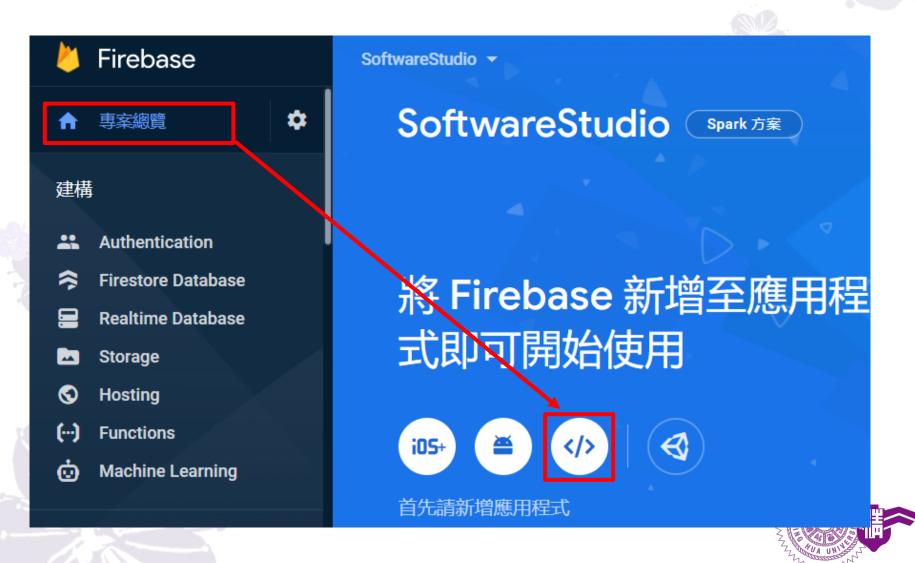


1. Create a new Firebase Project

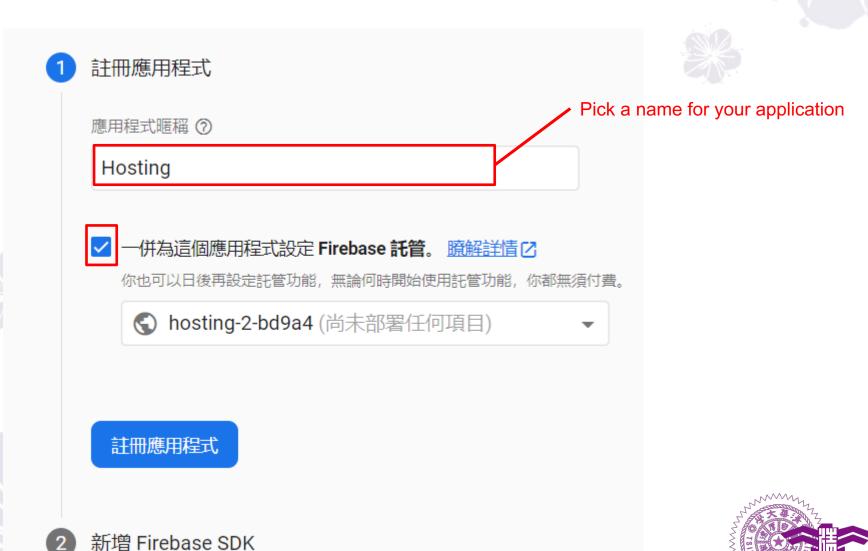
 Go to <u>Firebase Console</u> (need a Google account) and add a project



2. Create a new Web App on Firebase Console



Initialization Configuration



Initialization Configuration



注意事項:這個選項會使用模組 JavaScript SDK <a>Z, 因此 SDK 的大小得以縮減。

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 [2]、 Web SDK API 參考資料 [2]、使用範例 [2]



Skip this step



3. Prepare Project Folders

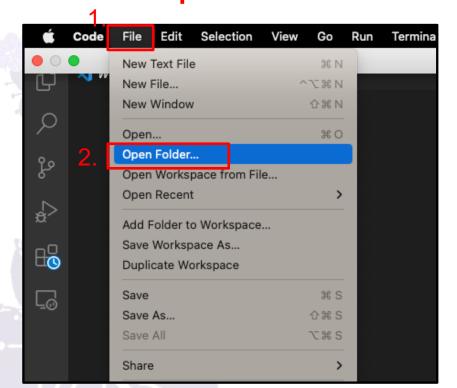
 In your project directory, create a "public" folder, and put all your source code and source files in it.

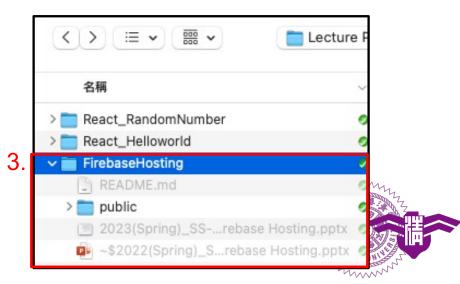




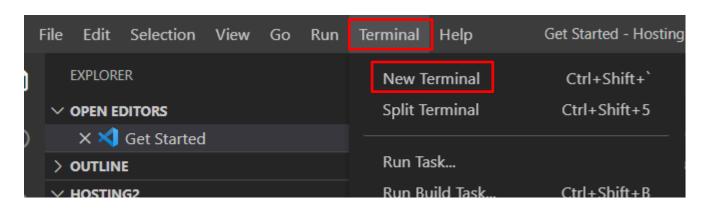
4. Install the Firebase CLI

- Download <u>node.js</u>, 12.16.2 LTS
- Start VSCode at your project directory, not in the public folder.





Install the Firebase CLI



- Run the command at your project directory and complete all settings
 - 1. npm install -g firebase-tools
 - 2. firebase login
 - 3. firebase init

Firebase Initialization

- Press <space> to select Firebase features.
- Select "Hosting"

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



Firebase Initialization

 Choose "Use an existing project" and select your Firebase project.



```
? Please select an option:
> Use an existing project
   Create a new project
   Add Firebase to an existing Google Cloud Platform project
   Don't set up a default project
```



Firebase Initialization

 Use "y" or "n" to select the configuration and press "Enter" to continue.

```
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.html)? No
? Set up automatic builds and deploys with GitHub? No

✓ Wrote public/404.html
? File public/index.html already exists. Overwrite? (y/N) n
```



5. Host Your Webpage

- Run the command at your project directory
 - firebase deploy
- Your app will be deployed to the domain <a href="mai

```
(base) licairong@licairongdeMacBook-Pro FirebaseHosting % firebase deploy

=== Deploying to 'test-2c010'...

i deploying hosting
i hosting[test-2c010]: beginning deploy...
i hosting[test-2c010]: found 17 files in public

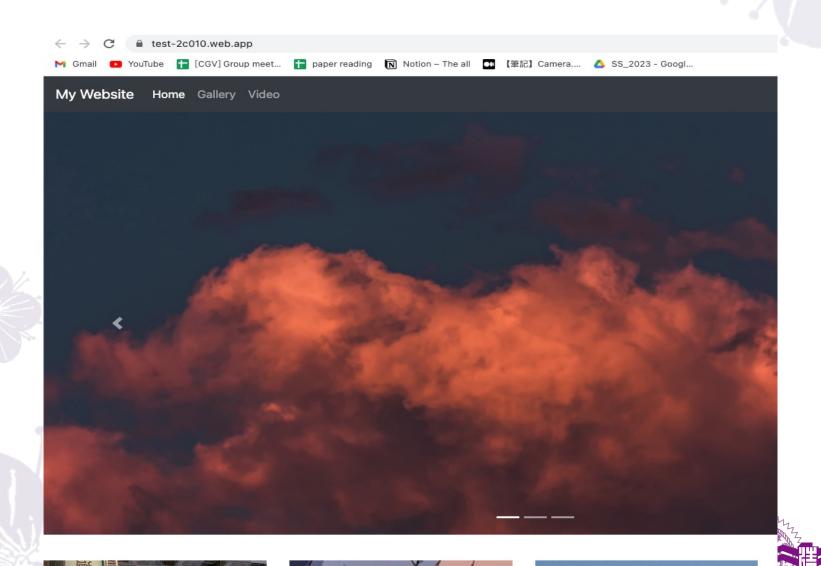
    hosting[test-2c010]: file upload complete
i hosting[test-2c010]: file upload complete
i hosting[test-2c010]: version finalized
i hosting[test-2c010]: releasing new version...

    hosting[test-2c010]: release complete

    Deploy complete!

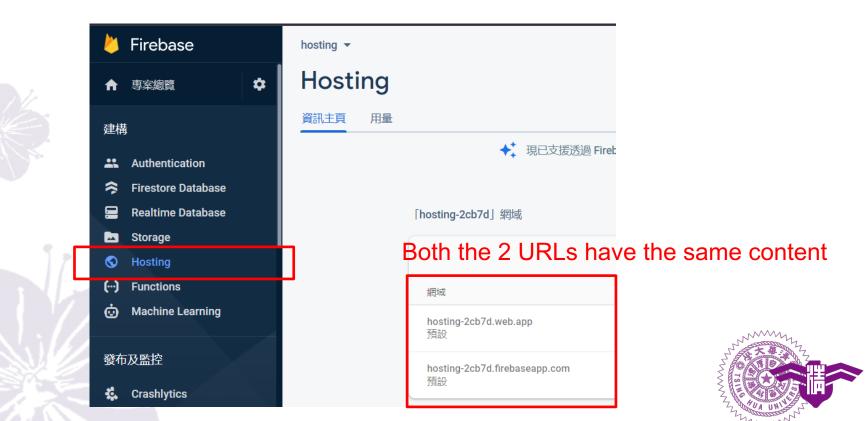
Project Console: https://console.firebase.google.com/project/test-2c010/overview
Hosting URL: https://test-2c010.web.app
```

Done!



Notice

 If you forget the address, go to firebase console.



Update Website

 If you want to update your website, just update the code in the "public" folder, and re-run "firebase deploy" to deploy your project.



