



JavaScript 程式設計新手村

單元23 - Firebase 雲端資料庫基礎介紹

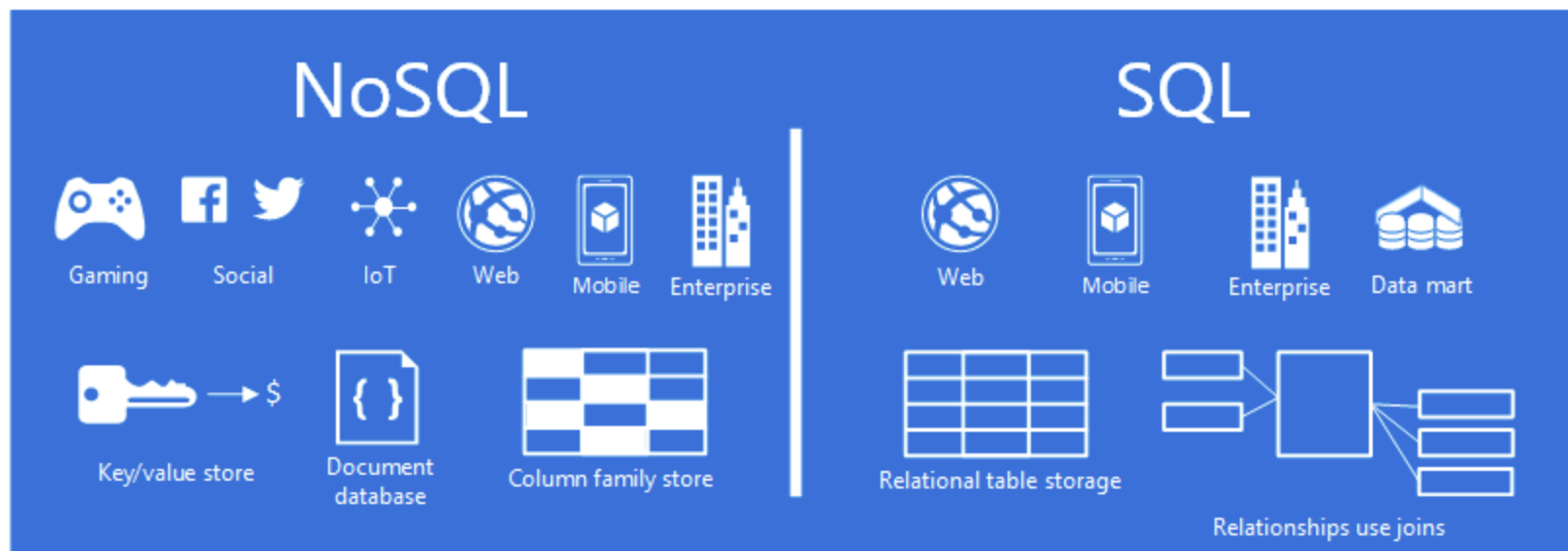
@kdchang

Outline

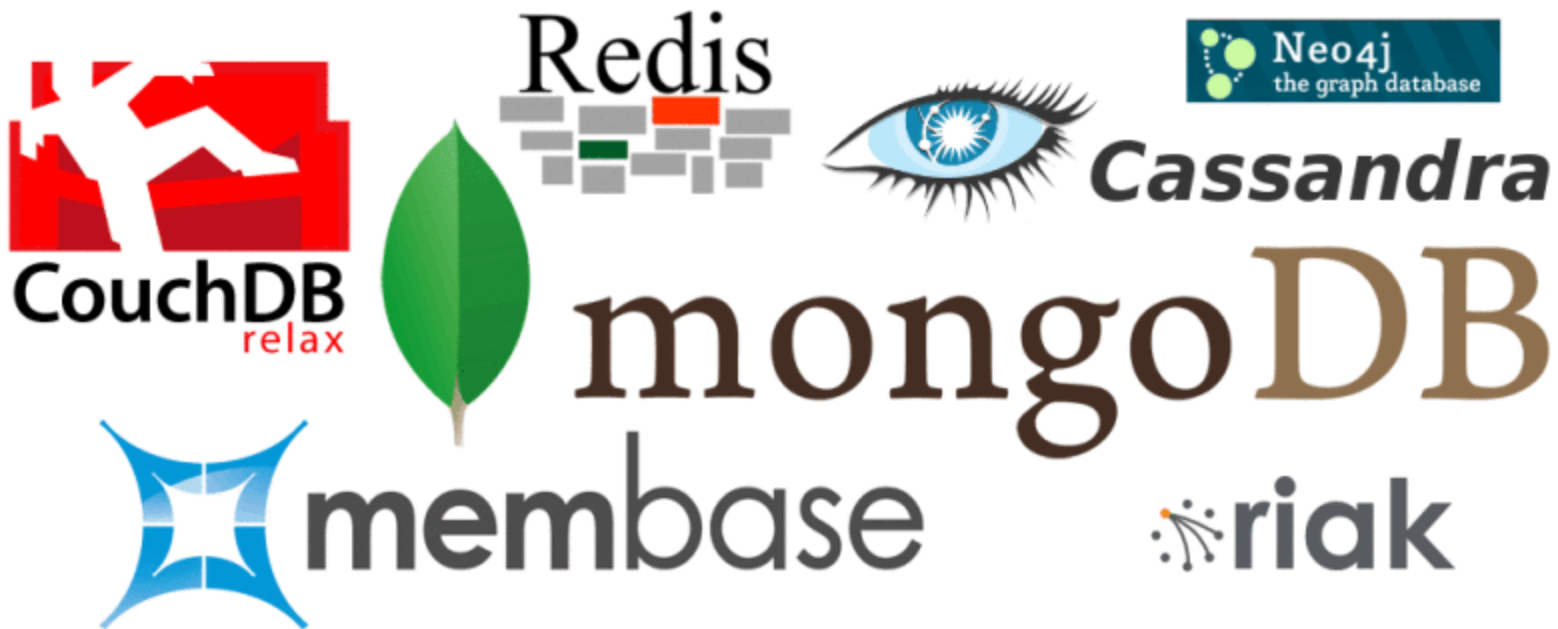
1. Firebase 雲端資料庫基礎介紹

資料庫

NoSQL or SQL ?



NoSQL



關聯式資料庫 (RDB)



Firestore 雲端資料庫基礎概念

Firebase 雲端資料庫基礎概念

The screenshot shows the Firebase website homepage. At the top is a navigation bar with the Firebase logo, links for Home, Features, Pricing, Docs, Customers, and Support, a search bar, and links for '前往控制台' (Go to Console) and '登入' (Login). The main hero section has a blue background with the text 'App success made simple' and 'The tools and infrastructure you need to build better apps and grow successful businesses'. Below this is a 'GET STARTED FOR FREE' button and a link to 'Attend or live-stream the Firebase Dev Summit in Berlin'. An illustration of a person holding up a large smartphone is on the right. Below the hero section, the 'Move fast' section describes Firebase as a mobile platform for developing, growing, and earning. To the right is a circular diagram with three segments: 'DEVELOP' (blue), 'ANALYTICS' (white), and 'GROW' (orange). The 'DEVELOP' segment lists Realtime Database, Authentication, and Cloud Messaging. The 'ANALYTICS' segment lists Analytics. The 'GROW' segment lists Notifications, Remote Config, App Indexing, and Dynamic Links.

Home Features Pricing Docs Customers Support

搜尋 前往控制台 登入

App success made simple

The tools and infrastructure you need to build better apps and grow successful businesses

[GET STARTED FOR FREE](#)

[Attend](#) or [live-stream](#) the Firebase Dev Summit in Berlin

Move fast

Firebase is a mobile platform that helps you quickly **develop** high-quality apps, **grow** your user base, and **earn** more money. Firebase is made up of complementary features that you can mix and match to fit your needs.

DEVELOP

- Realtime Database
- Authentication
- Cloud Messaging

ANALYTICS

- Analytics

GROW

- Notifications
- Remote Config
- App Indexing
- Dynamic Links

Firebase 是知名的雲端後端服務（Back-end As Service），目前已被 Google 收購。透過 Firebase 讓開發者可以不用自己架設後端程式就可以使用雲端資料庫開發應用程式

建立 Firebase 雲端資料庫新專案



取得說明文件



歡迎繼續使用 Firebase

您可以利用下方的部分資源，繼續透過 Firebase 開發應用程式。

[說明文件](#) [程式碼範例](#) [API 參考資料](#) [支援](#)



使用 Firebase 的專案

建立新專案

匯入 GOOGLE 專案

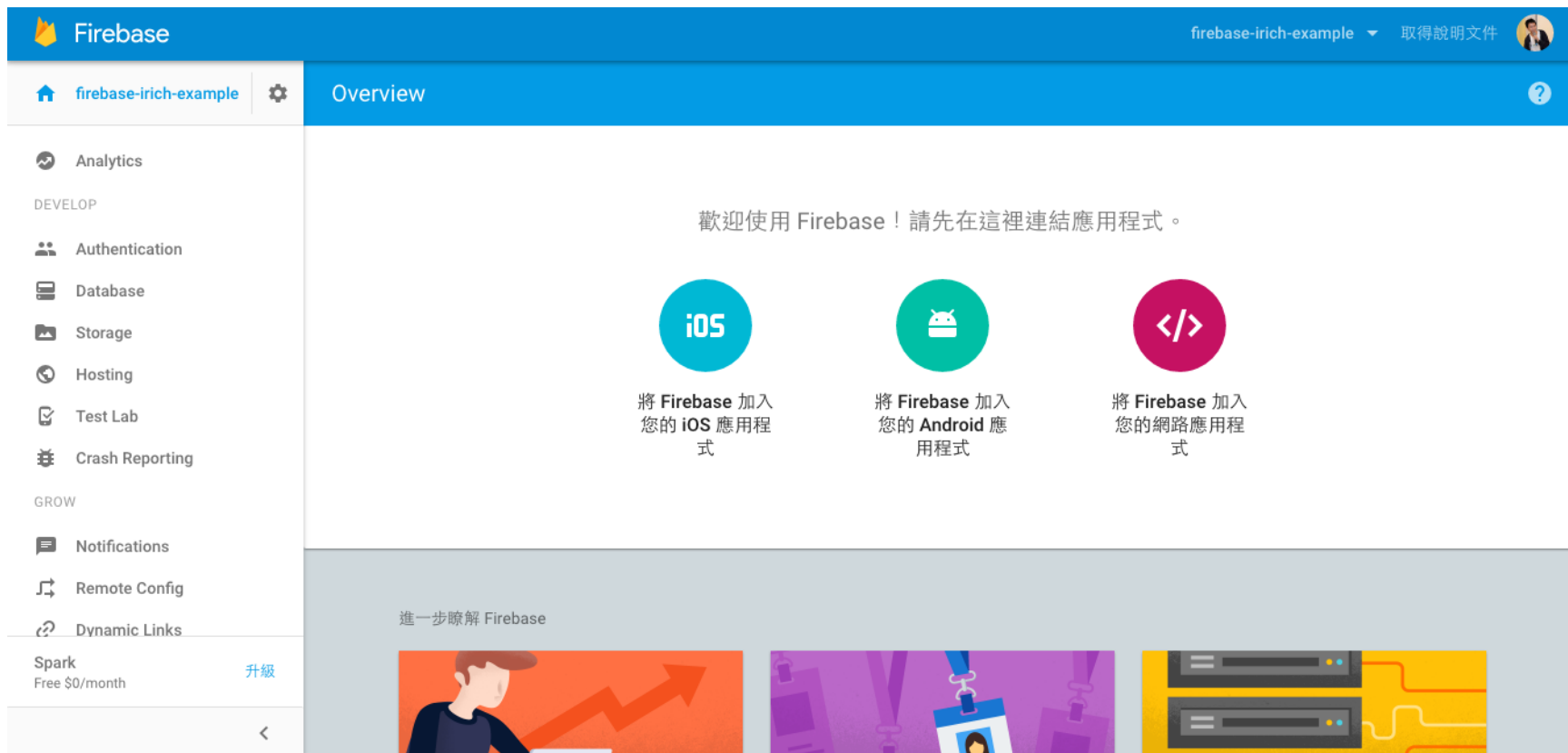
firebase-irich-example

 fir-irich-example.firebaseio.com

react-native-firebase

 react-native-firebase-c25ee.firebaseio.com

Firestore 雲端資料庫基礎概念

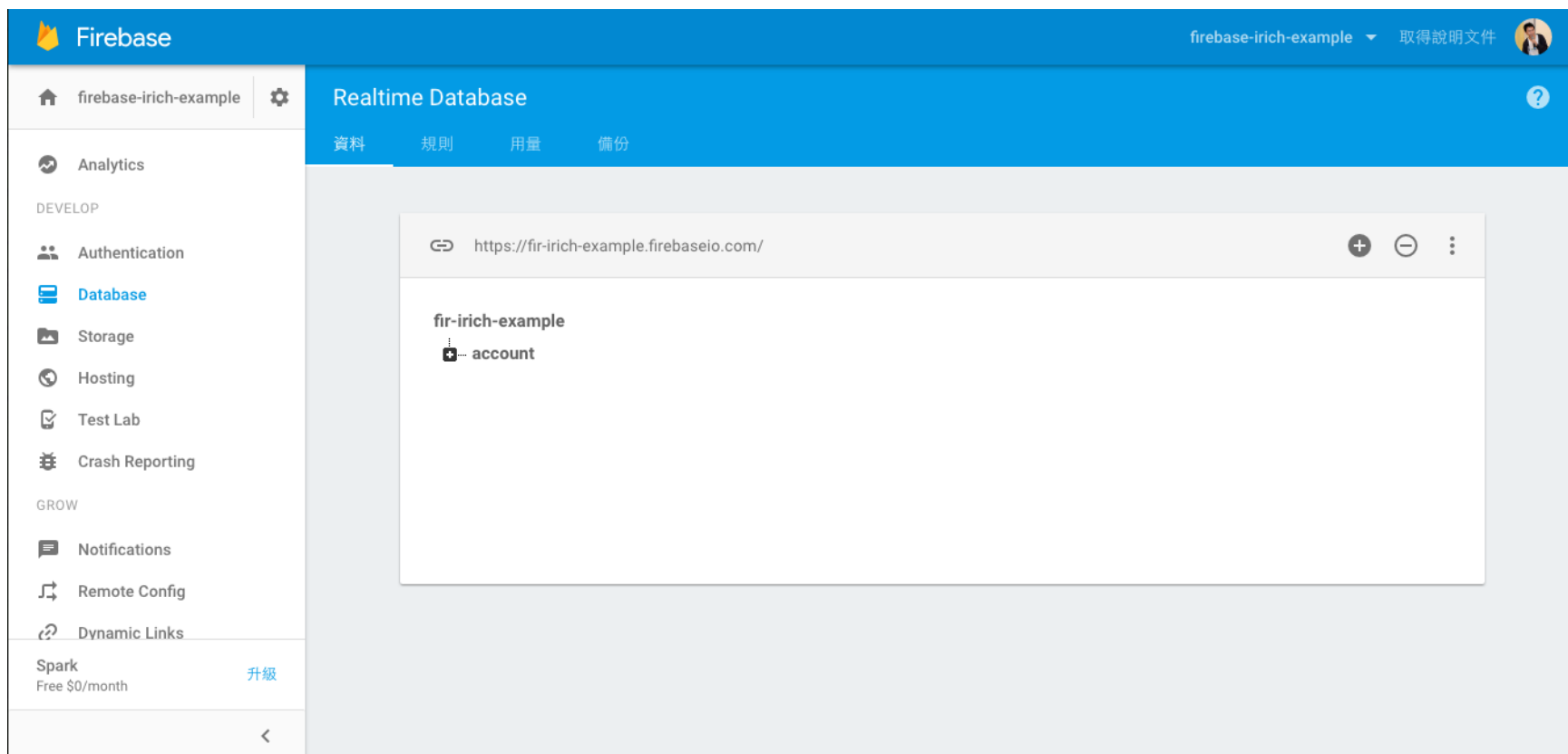


Auth：使用者驗證

Database：資料庫

Storage：檔案儲存

Firebase 雲端資料庫後台



Firebase 資料庫規則設定

The screenshot shows the Firebase console interface for the 'firebase-irich-example' project. The left sidebar contains a navigation menu with options: Analytics, Authentication, Database (selected), Storage, Hosting, Test Lab, Crash Reporting, Notifications, Remote Config, Dynamic Links, and Spark. The main area is titled 'Realtime Database' and has tabs for '資料' (Data), '規則' (Rules), '用量' (Usage), and '備份' (Backups). The '規則' tab is active, displaying a JSON rule set in a code editor. The rule set is:

```
{
  "rules": {
    ".read": true,
    ".write": true
  }
}
```

 A '模擬工具' (Simulation Tool) button is located in the top right corner of the rules editor. The top right of the console shows the project name 'firebase-irich-example' and a link to '取得說明文件' (Get documentation).

Firestore 資料庫費用

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Pricing

Get started with Firebase for free and scale worldwide to millions of users, paying only for what you use.

[傳送意見](#)[VIEW GUIDES](#)

SPARK Free

Generous limits for hobbyists

FLAME \$25 per month

Predictable pricing for growing apps

BLAZE Pay as you go

Commodity pricing for apps at scale

Included Free

Analytics, App Indexing, Authentication, Cloud Messaging, Crash Reporting, Dynamic Links, Invites, Notifications & Remote Config



Realtime Database

Simultaneous connections

100

Unlimited¹

Unlimited¹

GB stored

1 GB

2.5 GB

\$5/GB

GB downloaded

10 GB

20 GB

\$1/GB

總結

在這單元我們學會了：

1. Firebase 雲端資料庫的基礎概念