

GOOGLE FIREBASE GITHUB PAGES

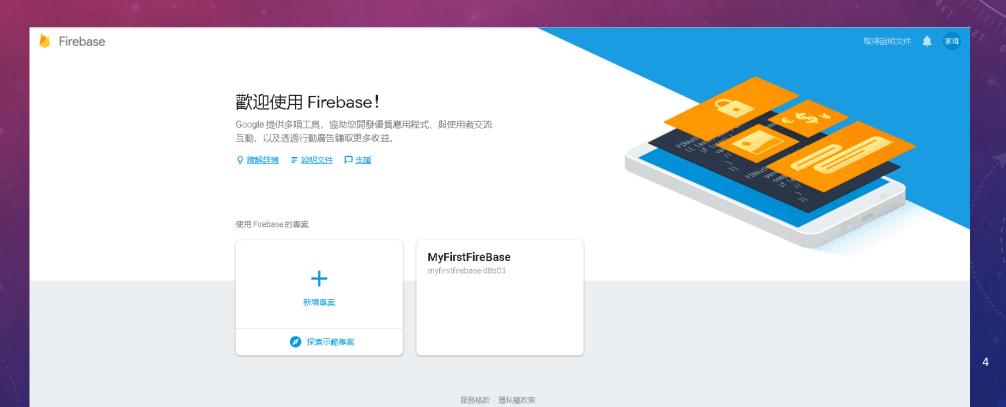
G O G L E GITHUB

FIREBASE

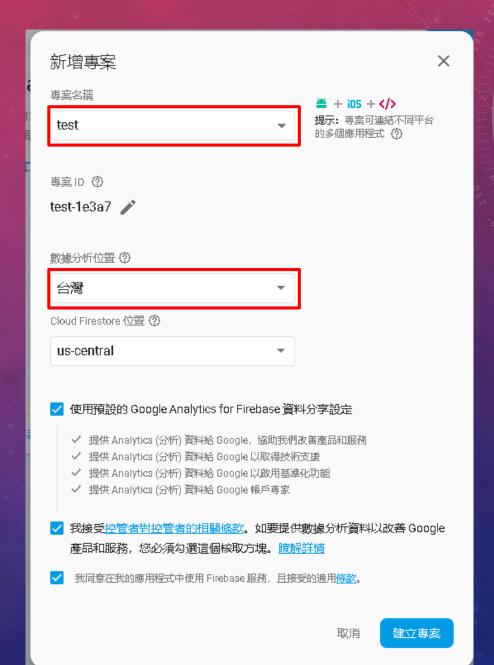
- 帳號認證
- 資料庫
- 資料儲存
- 架站
- Functions

FIREBASE-DATABASE

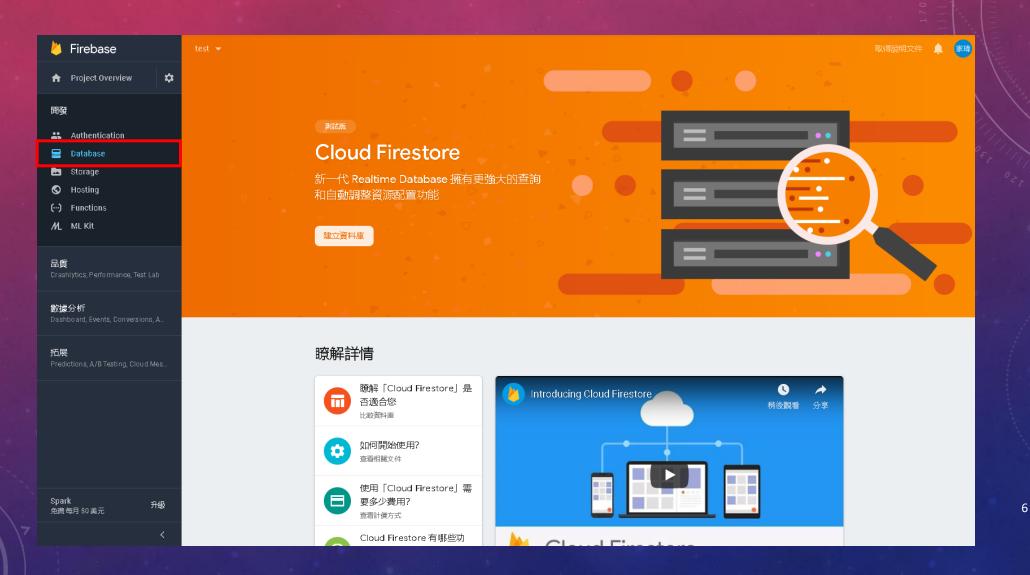
https://console.firebase.google.com/



建立專案



建立資料庫



建立資料庫

Cloud Firestore 安全性規則

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定義資料結構之後,您必須撰寫規則來保護資料。 瞭解詳情 🗵

- 以鎖定模式啟動 拒絕所有讀寫作業,保護資料庫的私密 性
- 以測試模式啟動 允許對資料庫執行所有讀寫作業,加速 完成設定程序。

```
service cloud.firestore {
  match /databases/{database}/documents {
    match /{document=**} {
      allow read, write;
    }
  }
}
```

事情不必資料庫參考資料的所有使用者都能讀取或寫入您的資料庫

啟用 Cloud Firestore 測試版後,您將無法在這個專案中使用 Cloud Datastore (特別是透過相關的 App Engine 應用程式)。

取消

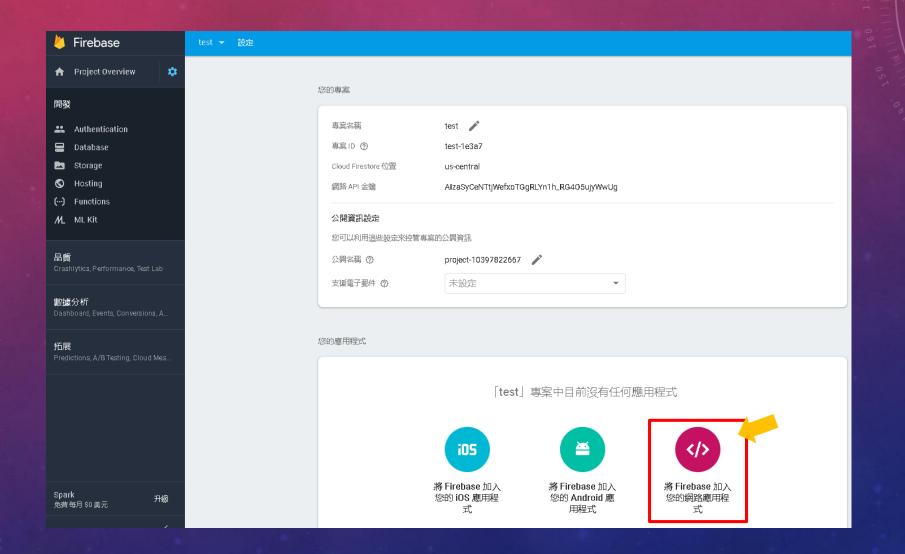
啟用

取得WEB接口



8

取得WEB接口



9

取得WEB接口

將 Firebase 加入您的網路應用程式

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複製下方的程式碼片段,然後貼到 HTML 底端 (其他 script 標記前)。

複製

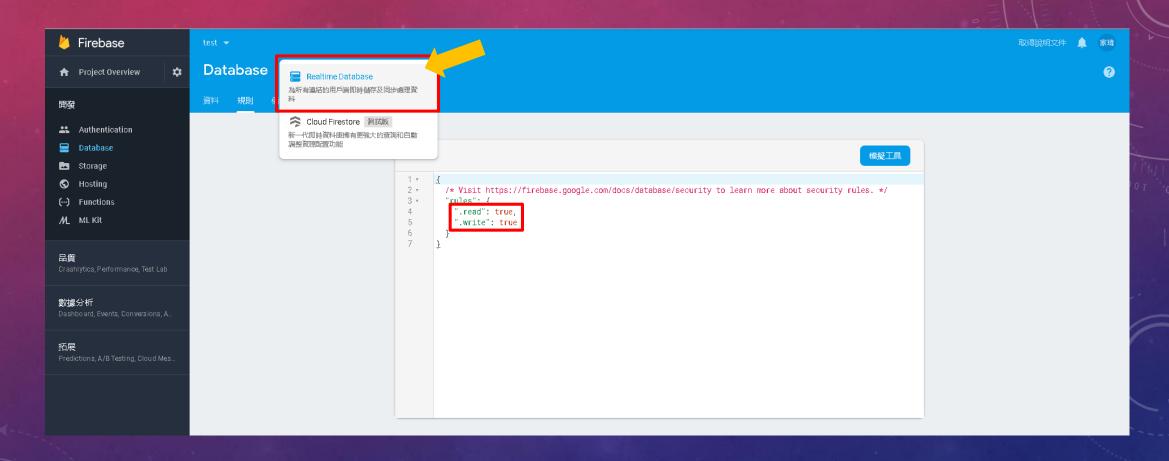
如要進一步瞭解適用於網路應用程式的 Firebase, 請查看下列資源:

Get Started with Firebase for Web Apps [2]

Firebase Web SDK API Reference [2]

Firebase Web Samples [2]

變更 REALTIME DATABASE 權限



EXAMPLE-SET (1)

建立

Firebase Realtime Database

建立使用者帳號

ID

Email

名稱

Mandy, mandy@gmail.com Jason, jason@gmail.com Gary, gary@gmail.com 張家瑋, jwchang@nutc.edu.tw

EXAMPLE-SET (2)

```
<head>
 <meta charset="UTF-8">
 <title>Firebase Realtime Database</title>
 <script src="https://code.jquery.com/jquery-3.1.0.min.js"></script>
 <script src="https://www.gstatic.com/firebasejs/5.7.1/firebase.js"></script>
 <script>
    // Initialize Firebase
   var config = {
      apiKey: "
      authDomain: "
     databaseURL:
     projectId:
      storageBucket: "
     messagingSenderId: "
   firebase.initializeApp(config);
   var db = firebase.database();
  </script>
```

EXAMPLE-SET (3)

```
/script>
function writeUserData(userId, name, email) {
    db.ref('users/' + userId).set({
        username: name,
        email: email
    }).then(function () {alert("成功創建使用者!");})
    .catch(function () {alert("伺服器發生錯誤,請稍後再試。");});
}
```

EXAMPLE-SET (4)

```
$(document).ready(function(){
        $("#create_user").click(function(){
           var id
                           = $('#create_id').val();
                           = $('#create_email').val();
           var email
                           = $('#create name').val();
           var name
           writeUserData(id,name,email);
        });
        function display_users(data_val){
          keys = Object.keys(data_val);
         users = '';
          //alert(data val[keys[0]]['username']);
          for (var \ i = keys.length - 1; \ i >= 0; \ i--) {
           users += data_val[keys[i]]['username']+', '+data_val[keys[i]]['email']+'<br>';
          $('#data').html(users);
        db.ref('users/').on('value', function(snapshot) {
          //alert(Object.keys(snapshot.val()))
          display_users(snapshot.val());
        });
   });
</script>
```

EXAMPLE-PUSH (1)

Push

Firebase Realtime Database

訊息

暱稱

即時通訊示範 Gary: 嗯嗯 Jason: 66666 Jason: ZZZZ

Jason: 安安 Gary: Hi

EXAMPLE-PUSH (2)

```
/script>
function push(name, msg) {

var key = db.ref('message/').push({
   username: name,
   message: msg
  }).key;

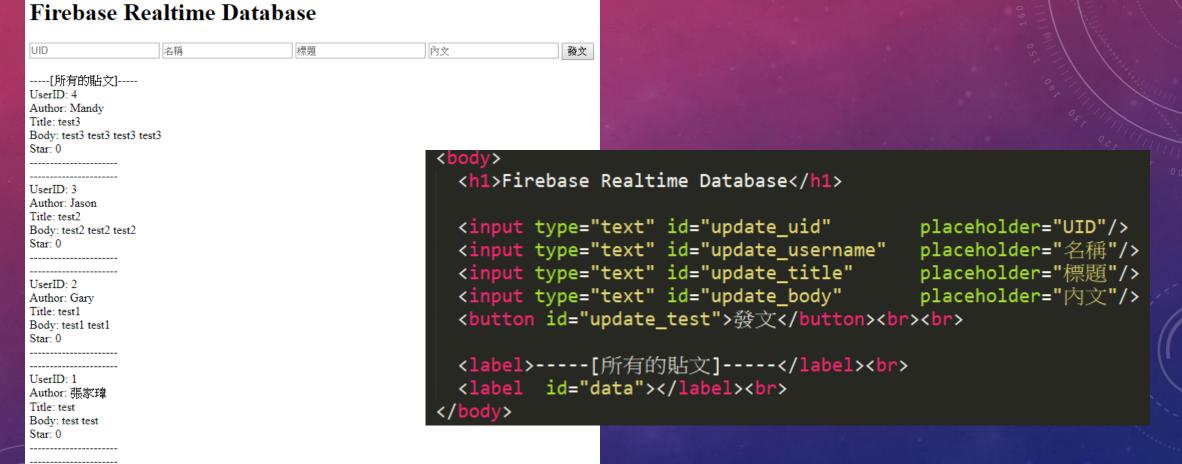
//alert("Push key = "+key);

}
```

EXAMPLE-PUSH (3)

```
$(document).ready(function(){
        $("#push_test").click(function(){
                             = $('#push_name').val();
            var name
                             = $('#push_msg').val();
            var msg
           push(name, msg);
        });
        function display msgs(data_val){
          keys = Object.keys(data_val);
          msgs = '';
          for (var \ i = keys.length - 1; \ i >= 0; \ i--) {
           msgs += data_val[keys[i]]['username'] +': '+ data_val[keys[i]]['message']+'<br>';
          $('#data').html(msgs);
        db.ref('message/').on('value', function(snapshot) {
          display_msgs(snapshot.val());
        });
   });
</script>
```

EXAMPLE-UPDATE (1)



EXAMPLE-UPDATE (2)

```
<script>
   function writeNewPost(uid, username, title, body) {
     // A post entry.
      var postData = {
       author: username,
       uid: uid.
       body: body,
       title: title.
       starCount: 0
     // Get a key for a new Post.
      var newPostKey = db.ref().child('posts').push().key;
     // Write the new post's data simultaneously in the posts list and the user's post list.
      var updates = {};
      updates['/posts/' + newPostKey] = postData;
      //updates['/user-posts/' + uid + '/' + newPostKey] = postData;
     return db.ref().update(updates);
```

EXAMPLE-UPDATE (3)

```
$(document).ready(function(){
       $("#update_test").click(function(){
           var uid
                          = $('#update_uid').val();
                          = $('#update_username').val();
           var username
           var title
                          = $('#update_title').val();
                          = $('#update body').val();
           var body
           writeNewPost(uid, username, title, body);
       });
       function display_posts(data_val){
         keys = Object.keys(data_val);
         posts = '';
         for (var \ i = keys.length - 1; \ i >= 0; \ i--) {
             posts += 'UserID: '+data_val[keys[i]]['uid']+'<br>';
             posts += 'Author: '+data_val[keys[i]]['author']+'<br>';
             posts += 'Title: '+data_val[keys[i]]['title']+'<br>';
             posts += 'Body: '+data_val[keys[i]]['body']+'<br>';
             posts += 'Star: '+data_val[keys[i]]['starCount']+'<br>';
             posts += '-----<br>':
             posts += '----<br>':
         $('#data').html(posts);
       db.ref('posts/').on('value', function(snapshot) {
         display_posts(snapshot.val());
       });
   });
</script>
```

EXAMPLE-REMOVE (1)

Firebase Realtime Database

建立使用者帳號

Email

名稱

建立

刪除使用者帳號

使用者帳號

刪除

- -----[所有的用戶]-----
- 4. Mandy, mandy@gmail.com
- Jason, jason@gmail.com
- Gary, gary@gmail.com
- 1. 張家瑋, jwchang@nutc.edu.tw

```
<body>
 <h1>Firebase Realtime Database</h1>
 <h3>建立使用者帳號</h3>
 <input type="text" id="create_id"</pre>
                                           placeholder="ID"/>
  <input type="text" id="create_email"</pre>
                                           placeholder="Email"/>
 <input type="text" id="create_name"</pre>
                                           placeholder="名稱"/>
 <button id="create user">建立</button><br><<br>>
 <h3>刪除使用者帳號</h3>
                                           placeholder="使用者帳號"/>
 <input type="text" id="delete user"</pre>
 <button id="delete_test">刪除</button><br><<br>
 <label>----[所有的用戶]----</label><br>
 <label id="data"></label><br>
</body>
```

EXAMPLE-REMOVE (2)

```
<script>
   function writeUserData(userId, name, email) {
     db.ref('users/' + userId).set({
       username: name,
       email: email
     }).then(function() {alert("成功創建使用者!");})
     .catch(function () {alert("伺服器發生錯誤,請稍後再試。");});
   function removeUser(userId) {
     db.ref('users/' + userId).remove();
     firebase.database().ref('users/' + userId).set({
       username: null,
```

EXAMPLE-REMOVE (3)

```
$(document).ready(function(){
        $("#create_user").click(function(){
            var id
                           = $('#create_id').val();
                           = $('#create_email').val();
            var email
                           = $('#create_name').val();
            var name
            writeUserData(id,name,email);
        });
       $("#delete_test").click(function(){
            var userId
                               = $('#delete user').val();
            removeUser(userId);
       });
        function display users(data val){
         keys = Object.keys(data_val);
         users = '';
         for (var \ i = keys.length - 1; \ i >= 0; \ i--) 
            users += keys[i]+". "+data_val[keys[i]]['username']+', '+data_val[keys[i]]['email']+'<br>';
         $('#data').html(users);
        db.ref('users/').on('value', function(snapshot) {
         display_users(snapshot.val());
        });
   });
</script>
```

EXAMPLE-ON & ONCE (1)

Firebase Realtime Database				7 9 7	
UID	名稱	標題	内文 <u>發</u>	文	
[所有的貼文]	查詢發文				
		<body> <h1>Firebase Rea</h1></body>	ltime Database		
			t" id="update_uid" t" id="update_username"	placeholder="UID"/> placeholder="名稱"/>	

EXAMPLE-ON & ONCE (2)

```
function writeNewPost(uid, username, title, body) {
 var postData = {
   author: username,
   uid: uid,
   body: body,
   title: title,
   starCount: 0
 var newPostKey = db.ref().child('posts').push().key;
 var updates = {};
 updates['/posts/' + newPostKey] = postData;
 return db.ref().update(updates);
function display_posts(data_val){
 keys = Object.keys(data_val);
 posts = '';
 for (var i = keys.length - 1; i >= 0; i--) {
     posts += 'UserID: '+data_val[keys[i]]['uid']+'<br>';
     posts += 'Author: '+data_val[keys[i]]['author']+'<br>';
     posts += 'Title: '+data_val[keys[i]]['title']+'<br>';
     posts += 'Body: '+data_val[keys[i]]['body']+'<br>';
     posts += 'Star: '+data_val[keys[i]]['starCount']+'<br>';
     posts += '-----<br>';
     posts += '----<br>':
 $('#data').html(posts);
function query() {
 db.ref('posts/').once('value', function(snapshot) {
     display_posts(snapshot.val());
```

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EXAMPLE-ON & ONCE (3)

```
$(document).ready(function(){
       $("#update_test").click(function(){
           var uid
                          = $('#update_uid').val();
                          = $('#update_username').val();
           var username
                          = $('#update_title').val();
           var title
                          = $('#update_body').val();
           var body
          writeNewPost(uid, username, title, body);
       });
       $("#query_test").click(function(){
          query();
       });
   });
</script>
```

延伸閱讀

https://firebase.google.com/docs/database/web/start

