

# Firebase: Authenticate

**Firebase** Authenticate ▾ Go to docs ⋮

Overview Analytics DEVELOP Authentication Database Storage Hosting Test Lab Crash Reporting GROW Notifications Remote Config Dynamic Links EARN AdMob

UPGRADE

Realtime Database DATA RULES USAGE BACKUPS

Unpublished changes | PUBLISH DISCARD SIMULATOR

```
1  {
2   "rules": {
3     ".read": true,
4     ".write": true
5   }
6 }
```

★ Default security rules require users to be authenticated

```
1  {
2    "rules": {
3      ".read": "auth != null",
4      ".write": "auth != null"
5    }
6 }
```

Firebase console X

Secure | https://console.firebaseio.google.com/project/authenticate-f33c7/authentication/users

**Firebase** Authenticate Go to docs WEB SETUP ?

Overview ADD USER

Analytics

DEVELOP

**Authentication**

Database

Storage

Hosting

Test Lab

Crash Reporting

GROW

Notifications

Remote Config

Dynamic Links

EARN

AdMob

Spark  
Free \$0/month UPGRADE

UPGRADE

SEARCH: Search by email address or user UID

EMAIL ADD USER

Providers Created Signed In User UID

 Authenticate and manage users from a variety of providers without server-side code

[Learn more](#)

**SET UP SIGN-IN METHOD**

Need help setting up your app? [iOS](#) [Android](#) [HTML](#)

15.07 15/02/2017

Firebase console x

Secure | https://console.firebaseio.google.com/project/authenticate-f33c7/authentication/providers

Firebase Authenticate Go to docs WEB SETUP ?

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UPGRADE

Authentication

USERS SIGN-IN METHOD EMAIL TEMPLATES

Sign-in providers

| Provider       | Status                                     |
|----------------|--------------------------------------------|
| Email/Password | Enable <input checked="" type="checkbox"/> |
| Google         | Disabled                                   |
| Facebook       | Disabled                                   |
| Twitter        | Disabled                                   |
| Github         | Disabled                                   |
| Anonymous      | Disabled                                   |

Allow users to sign up using their email address and password. Our SDKs also provide email address verification, password recovery, and email address change primitives. [Learn more](#)

CANCEL SAVE

OAuth redirect domains [?](#)

| Authorized domain | Type    |
|-------------------|---------|
| localhost         | Default |

ADD DOMAIN

Spark Free \$0/month UPGRADE

15:08 15/02/2017

Firebase console x

Secure | https://console.firebaseio.google.com/project/authenticate-f33c7/authentication/providers

Firebase Authenticate Go to docs WEB SETUP ?

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UPGRADE

Spark Free \$0/month

Authentication

USERS SIGN-IN METHOD EMAIL TEMPLATES

Sign-in providers

| Provider       | Status   |
|----------------|----------|
| Email/Password | Enabled  |
| Google         | Disabled |
| Facebook       | Disabled |
| Twitter        | Disabled |
| Github         | Disabled |
| Anonymous      | Disabled |

OAuth redirect domains

| Authorized domain                 | Type    |
|-----------------------------------|---------|
| localhost                         | Default |
| authenticate-f33c7.firebaseio.com | Default |

Advanced

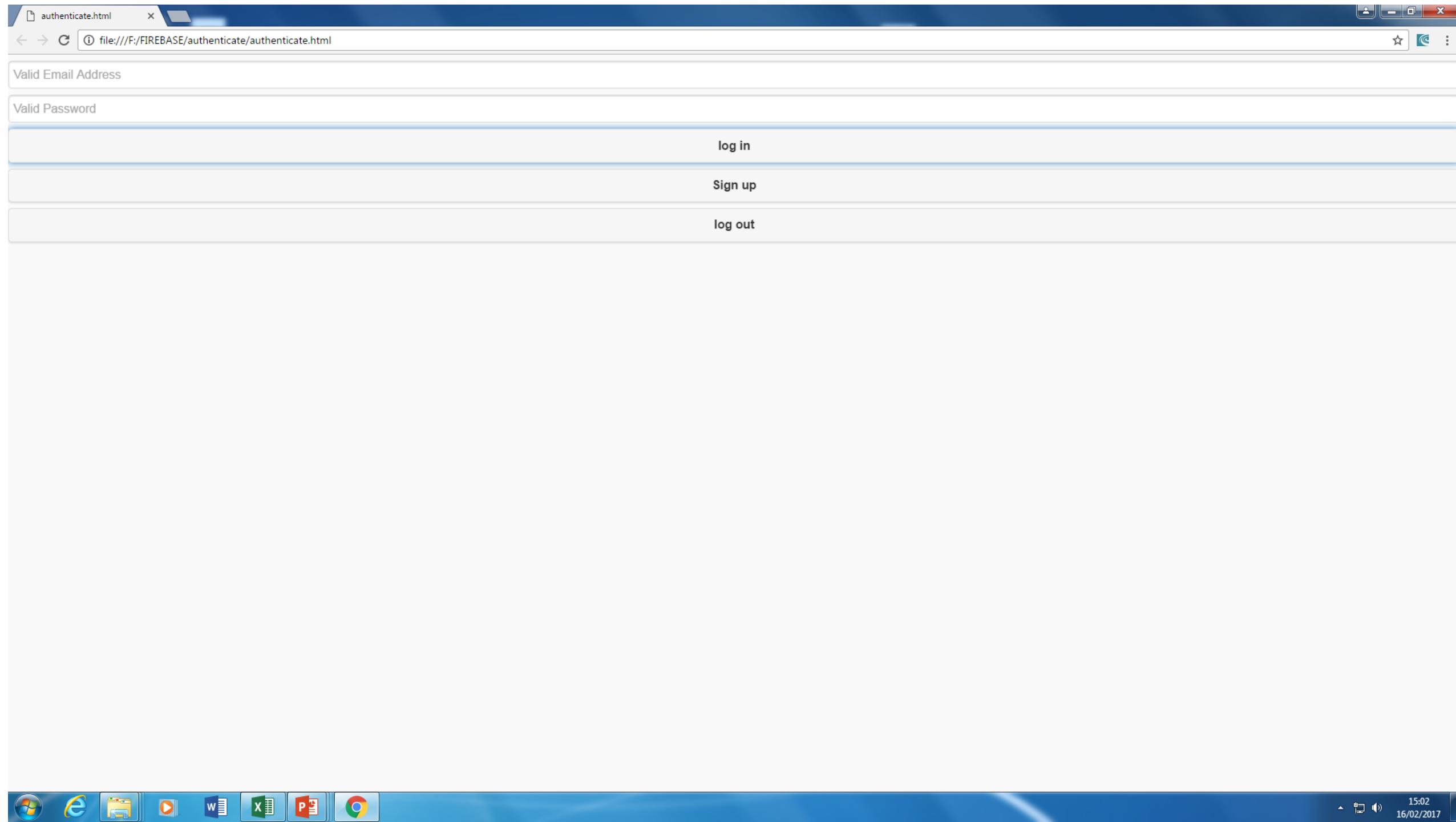
One account per email address

Preventing users from creating multiple accounts using the same email address with different authentication providers.

CHANGE

15:09 15/02/2017

Windows Internet Explorer Microsoft Word Microsoft Excel Microsoft PowerPoint Microsoft Paint Google Chrome



authenticate.html

Valid Email Address

Valid Password

[log in](#)

[Sign up](#)

[log out](#)

```
<html>
```

```
<head>
```

```
<title></title>
```

```
    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.0/jquery.mobile-1.4.0.min.css"/>
```

```
<script src="http://code.jquery.com/jquery-1.10.2.min.js"></script>
```

```
<script src="http://code.jquery.com/mobile/1.4.0/jquery.mobile-1.4.0.min.js"></script>
```

```
    <script src="https://www.gstatic.com/firebasejs/3.6.9.firebaseio.js"></script>
```

```
<script>
// Initialize Firebase
var config = {
  apiKey: "AIzaSyC077C7YDz7El20Kwh2IffuP0Fcu3Ixel",
  authDomain: "authenticate-f33c7.firebaseio.com",
  databaseURL: "https://authenticate-f33c7.firebaseio.com",
  storageBucket: "authenticate-f33c7.appspot.com",
  messagingSenderId: "87228285156"
};
firebase.initializeApp(config);
```

```
</script>
```

```
</head>
```

```
<body>
  <div class = "container">

    <input type='text' id='txtEmail' placeholder='Valid Email Address'/>

    <input type='text' id='txtPassword' placeholder='Valid Password'/>

    <button id="btnLogin"> log in </button>

    <button id="btnSignup"> Sign up </button>

    <button id="btnLogout"> log out </button>

  </div>
</body>
<script src = "app.js" ></script>
</html>
```

# JavaScript:

## Authentication: Firebase

```
$(document).ready( function(){
var fb = firebase.database().ref();

firebase.auth().onAuthStateChanged(function(user) {
if (user) {
    alert(" User is signed in.");
}

else{
    alert(" User has signed out.");
}

});
```

```
$("#btnLogin").on('click', function(){
    var email = $("#txtEmail").val();
    var password = $("#txtPassword").val();

    firebase.auth().signInWithEmailAndPassword(email,
password).catch(function(error) {
        var errorCode = error.code;
        var errorMessage = error.message;
        alert(error.message);

    });
});
```

```
$("#btnSignup").on('click', function(){
    var email = $("#txtEmail").val();

    var password = $("#txtPassword").val();
    firebase.auth().createUserWithEmailAndPassword(email, password).catch(function(error)
    {
        // Handle Errors here.
        var errorCode = error.code;
        var errorMessage = error.message;
        alert(errorMessage);
        // ...
    });
});
```

```
$("#btnLogout").on('click', function(){  
    firebase.auth().signOut().then(function() {  
    }, function(error) {  
        alert(error);  
    });  
});  
});
```

**Firebase** [Authenticate](#) [WEB SETUP](#) [?](#)

[Overview](#) [Analytics](#) [DEVELOP](#) [Authentication](#) [Database](#) [Storage](#) [Hosting](#) [Test Lab](#) [Crash Reporting](#) [GROW](#) [Notifications](#) [Remote Config](#) [Dynamic Links](#) [EARN](#) [AdMob](#)

Spark  
Free \$0/month [UPGRADE](#)

[←](#)

**Authentication**

[USERS](#) [SIGN-IN METHOD](#) [EMAIL TEMPLATES](#)

Search by email address or user UID [ADD USER](#) [⟳](#)

| Email                         | Providers | Created | Signed In | User UID ↑ |
|-------------------------------|-----------|---------|-----------|------------|
| No users for this project yet |           |         |           |            |

authenticate.html

Valid Email Address

Valid Password

log in

Sign up

log out

authenticate.html × Firebase console

glenn@dummyemail.com

dummypassword

[log in](#)

[Sign up](#)

[log out](#)

10:48  
01/03/2017

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**Authentication**

USERS SIGN-IN METHOD EMAIL TEMPLATES

Search by email address or user UID ADD USER C

| Email                | Providers | Created     | Signed In   | User UID ↑          |
|----------------------|-----------|-------------|-------------|---------------------|
| glenn@dummyemail.com | ✉         | Mar 1, 2017 | Mar 1, 2017 | V5PBPvHfbjgMbibj1J6 |
| Rows per page: 50    |           |             |             |                     |

Reset password  
Disable account  
Delete account

10:52  
01/03/2017

authenticate.html    x    Firebase console    x    Firebase console    x

file:///C:/Users/33333083/Desktop/FIREBASE/authenticate/authenticate.html

glenn@dummyemail.com

dummypassword

This page says:  
User has signed out.  
 Prevent this page from creating additional dialogues.

OK

Sign up

log out



authenticate.html    x    Firebase console    x    Firebase console    x

file:///C:/Users/33333083/Desktop/FIREBASE/authenticate/authenticate.html

glenn@dummyemail.com

dummypassword

This page says:  
User is signed in.  
 Prevent this page from creating additional dialogues.

OK

Sign up

log out



# Firebase: Child Events

Firebase child Overview Analytics Realtime Database DATA RULES USAGE BACKUPS Go to docs ?

DEVELOP Authentication Database Storage Hosting Test Lab Crash Reporting GROW Notifications Remote Config Dynamic Links EARN AdMob

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https://child-d9a01.firebaseio.com/object

⚠ Your security rules are defined as public, anyone can read or write to your database LEARN MORE DISMISS

child-d9a01 > object

object: null + X

Name hobbies + X

Name karate Value karate + X

Name running Value running + X

CANCEL ADD

## child events>

```
{  
  "hobbies": {  
    "karate": "karate",  
    "running": "running"  
  }  
}  


- karate
- running

```

```
<!DOCTYPE html>
<html>
<head>

    <title></title>
    <meta name="viewport" content="width=device-width, initial-
scale=1"/>
    <link rel="stylesheet"
        href="http://code.jquery.com/mobile/1.4.0/jquery.mobile-
        1.4.0.min.css"/>
    <script src="https://code.jquery.com/jquery-1.10.2.min.js"></script>
    <script src="https://code.jquery.com/mobile/1.4.0/jquery.mobile-
        1.4.0.min.js"></script>

</head>
```

```
<body>
```

```
<h1> child events</h1>
```

```
<pre id = "object"></pre>
```

```
<ul id = "list">
```

```
</ul>
```

```
</body>
```

```
<script src="https://www.gstatic.com/firebasejs/3.6.9.firebaseio.js"></script>
```

```
<script>
```

```
// Initialize Firebase

var config = {
    apiKey: "AIzaSyDlovj8sWkJROqdqYrMCXsg0L5N1RmFnOc",
    authDomain: "child-d9a01.firebaseio.com",
    databaseURL: "https://child-d9a01.firebaseio.com",
    storageBucket: "child-d9a01.appspot.com",
    messagingSenderId: "385334062884"
};

firebase.initializeApp(config);

</script>
<script src = "child.js"></script>
</html>
```

# JavaScript

```
$(document).ready(function() {
```

```
// Get Elements
```

```
const preObject = document.getElementById('object');
```

```
const ulList = document.getElementById('list');
```

```
//create references
```

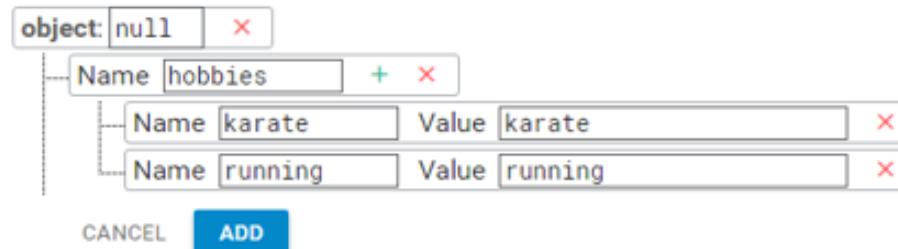
```
const dbRefObject = firebase.database().ref().child('object');
```

```
const dbRefList = dbRefObject.child('hobbies');
```

https://child-d9a01.firebaseio.com/object

⚠ Your security rules are defined as public, anyone can read or write to your database

child-d9a01 > object



```
dbRefList.on('child_added', snap=> {  
  
    const li = document.createElement ('li');  
    li.innerText = snap.val();  
    li.id = snap.key;  
    ulList.appendChild(li);  
});
```

```
dbRefList.on('child_removed', snap=> {  
  
    const liToRemove = document.getElementById(snap.key);  
    liToRemove.remove();  
  
});
```

```
dbRefList.on('child_changed', snap=> {  
  const liChanged = document.getElementById(snap.key);  
  
  liChanged.innerText = snap.val();  
});
```

```
dbRefObject.on('value', snap =>{  
    preObject.innerText = JSON.stringify(snap.val(), null, 3);  
});  
});
```

Firebasechild⋮Go to docs?

OverviewAnalyticsDEVELOPEARN

AuthenticationDatabaseStorageHostingTest LabCrash Reporting

NotificationsRemote ConfigDynamic Links

AdMob

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### Realtime Database

DATA RULES USAGE BACKUPS

[🔗 https://child-d9a01.firebaseio.com/](https://child-d9a01.firebaseio.com/) + - ⋮

⚠ Your security rules are defined as public, anyone can read or write to your database

[LEARN MORE](#) [DISMISS](#)

child-d9a01: null

X

Name object

X

Value object

X

CANCELADD

Firebase child Overview Analytics Realtime Database DATA RULES USAGE BACKUPS DEVELOP Authentication Database Storage Hosting Test Lab Crash Reporting GROW Notifications Remote Config Dynamic Links EARN AdMob

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https://child-d9a01.firebaseio.com/object

⚠ Your security rules are defined as public, anyone can read or write to your database LEARN MORE DISMISS

child-d9a01 > object

object: null

Name hobbies

Name karate Value karate

Name running Value running

CANCEL ADD

## child events>

```
{  
  "hobbies": {  
    "karate": "karate",  
    "running": "running"  
  }  
}  


- karate
- running

```

Firebase child Overview Analytics Realtime Database DATA RULES USAGE BACKUPS ?

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https://child-d9a01.firebaseio.com/object

⚠ Your security rules are defined as public, anyone can read or write to your database LEARN MORE DISMISS

child-d9a01 > object

object

hobbies

karate: "karate" x

delete

The screenshot shows the Firebase Realtime Database interface. On the left, there's a sidebar with various project management and developer tools like Authentication, Database, Storage, Hosting, and Test Lab. The main area is titled 'Realtime Database' and has tabs for DATA, RULES, USAGE, and BACKUPS. A prominent red banner at the top states 'Your security rules are defined as public, anyone can read or write to your database' with 'LEARN MORE' and 'DISMISS' buttons. Below the banner, the database structure is shown as 'child-d9a01 > object'. Under 'object', there's a single child node 'hobbies' which contains a single key-value pair 'karate: "karate"'. There's also a 'delete' button next to the key.

## child events>

```
{  
  "hobbies": {  
    "karate": "karate"  
  }  
}  
• karate
```

```
dbRefList.on('child_removed', snap=> {  
  
  const liToRemove = document.getElementById(snap.key);  
  liToRemove.remove();  
  
});
```

Firebase child Overview Analytics Realtime Database DATA RULES USAGE BACKUPS Go to docs ?

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https://child-d9a01.firebaseio.com/object

⚠ Your security rules are defined as public, anyone can read or write to your database LEARN MORE DISMISS

child-d9a01 > object

object

hobbies

|      |          |       |          |                                  |
|------|----------|-------|----------|----------------------------------|
| Name | swimming | Value | swimming | <input type="button" value="X"/> |
|------|----------|-------|----------|----------------------------------|

CANCEL ADD

karate: "karate"

## child events>

```
{  
  "hobbies": {  
    "karate": "karate",  
    "swimming": "swimming"  
  }  
}  
• karate  
• swimming
```

```
dbRefList.on('child_added', snap=> {
```

```
  const li = document.createElement ('li');  
  li.innerText = snap.val();  
  li.id = snap.key;  
  ulList.appendChild(li);  
});
```

child.html x Firebase console x

Secure | https://console.firebaseio.google.com/project/child-d9a01/database/data/object/hobbies/swimming

Firebase child Go to docs ?

Overview Analytics DEVELOP Authentication Database Storage Hosting Test Lab Crash Reporting GROW Notifications Remote Config Dynamic Links EARN AdMob

Realtime Database DATA RULES USAGE BACKUPS

<https://child-d9a01.firebaseio.com/object/hobbies/swimming> + - ⋮

**⚠ Your security rules are defined as public, anyone can read or write to your database** LEARN MORE DISMISS

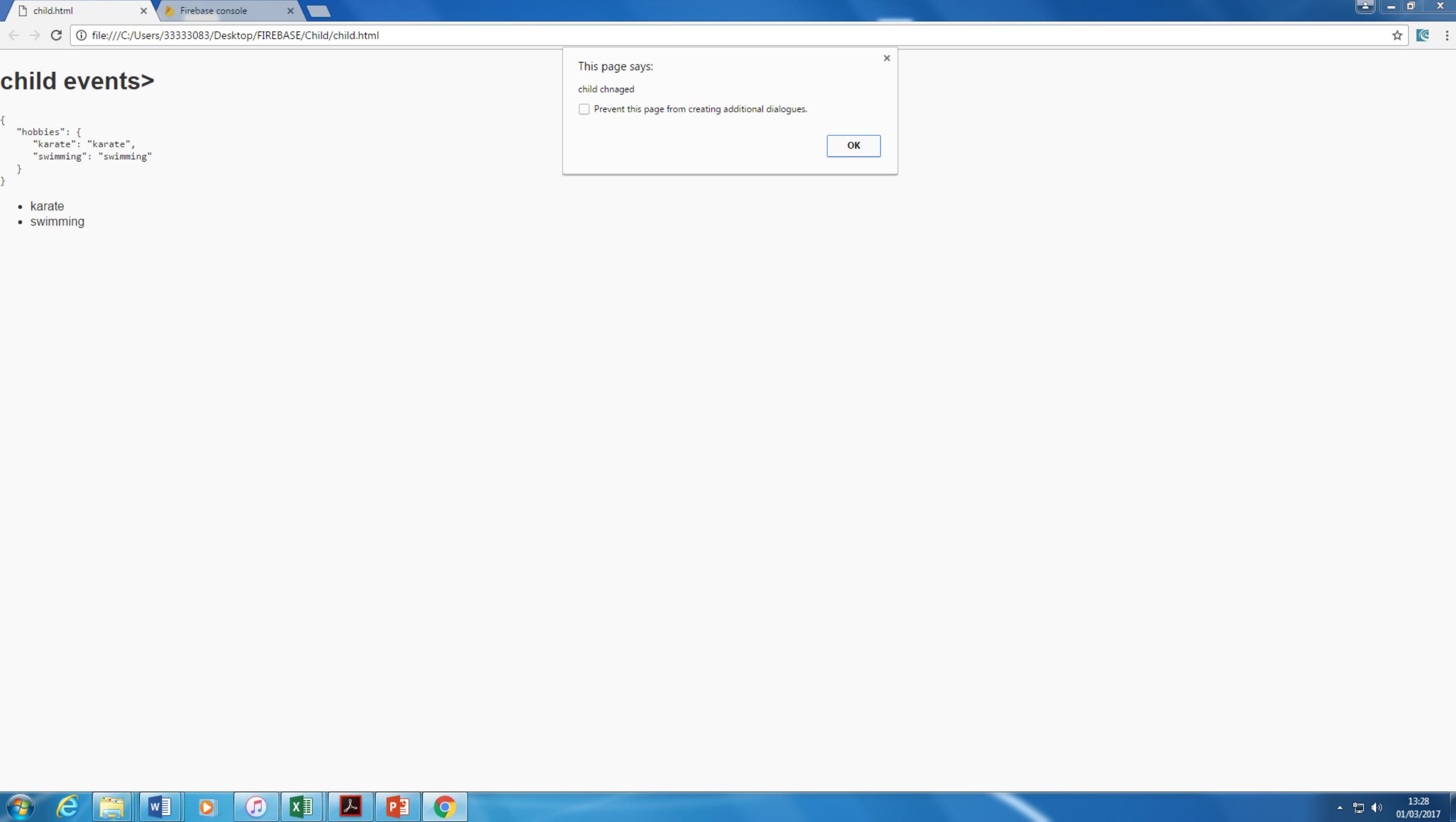
child-d9a01 > object > hobbies > swimming

swimming: "running" X

Spark Free \$0/month UPGRADE

13:27 01/03/2017

The screenshot shows the Firebase Realtime Database interface. On the left, there's a sidebar with various development tools like Authentication, Database, Storage, and Hosting. The main area is titled 'Realtime Database' and has tabs for DATA, RULES, USAGE, and BACKUPS. In the DATA section, a single node 'swimming' under the path 'hobbies' is displayed with the value 'running'. A red warning bar at the top indicates that the project's security rules are public, allowing anyone to read or write to the database. The bottom left shows the current plan is 'Spark' with a free \$0/month, and there's a 'UPGRADE' button. The bottom right shows the system time as 13:27 on 01/03/2017.



## child events>

```
{  
  "hobbies": {  
    "karate": "karate",  
    "swimming": "running"  
  }  
}  
• karate  
• running
```

```
dbRefList.on('child_changed', snap=> {
```

```
  const liChanged = document.getElementById(snap.key);
```

```
  liChanged.innerText = snap.val();
```

```
});
```

child.html × Firebase console × Rentolease - Property fo ×

Secure | https://console.firebaseio.google.com/project/child-d9a01/database/data/object/hobbies

Firebase child Overview Analytics Realtime Database DATA RULES USAGE BACKUPS Go to docs ?

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Spark Free \$0/month UPGRADE <

Realtime Database

https://child-d9a01.firebaseio.com/object/hobbies

⚠ Your security rules are defined as public, anyone can read or write to your database LEARN MORE DISMISS

child-d9a01 > object > hobbies

hobbies

- karate: "karate"
- swimming: "running"

13:33 01/03/2017

The screenshot shows the Firebase Realtime Database interface. On the left, there's a sidebar with various project management and developer tools like Authentication, Database, Storage, and Notifications. The main area is titled 'Realtime Database' and has tabs for DATA, RULES, USAGE, and BACKUPS. A prominent red warning bar at the top states: '⚠ Your security rules are defined as public, anyone can read or write to your database' with 'LEARN MORE' and 'DISMISS' buttons. Below the bar, the URL 'https://child-d9a01.firebaseio.com/object/hobbies' is shown. The data structure under 'hobbies' contains two entries: 'karate: "karate"' and 'swimming: "running"'. At the bottom left, it says 'Spark Free \$0/month' and 'UPGRADE'. The bottom right shows the system time '13:33 01/03/2017'.

Demo1.html

Valid Email Address

Valid Password

log in

Sign up

log out

## child events

```
{  
  "hobbies": {  
    "karate": "ka",  
    "running": "running"  
  }  
}  


- ka
- running

```

```
<body>
  <div class = "container">
    <input type='text' id='txtEmail' placeholder='Valid Email Address'/>
    <input type='text' id='txtPassword' placeholder='Valid Password'/>

    <button id="btnLogin"> log in </button>
    <button id="btnSignup"> Sign up </button>
    <button id="btnLogout"> log out </button>
  </div>

  <div>
    <h1> child events</h1>
    <pre id = "object"></pre>
    ul id = "list"> </ul>
  </div>
</body>
<script src = "demo.js" ></script>
```

```
var fb = firebase.database().ref();

const preObject = document.getElementById('object');
const ulList = document.getElementById('list');
//create references
const dbRefObject = fb.child('object'); // this changed to fb.child...
const dbRefList = dbRefObject.child('hobbies');
```

```
firebase.auth().onAuthStateChanged(function(user) {  
  if (user) {  
    alert(" User is signed in.");
```

```
  dbRefObject.on('value', snap =>{  
  
    preObject.innerText = JSON.stringify(snap.val(), null, 3);  
});
```

```
  dbRefList.on('child_removed', snap=> {  
  
    const liToRemove = document.getElementById(snap.key);  
    liToRemove.remove();  
    alert('it is removed');  
});
```

```
dbRefList.on('child_added', snap=> {
  alert('child added');
  const li = document.createElement ('li');
  li.innerText = snap.val();
  li.id = snap.key;
  ulList.appendChild(li);
});

dbRefList.on('child_changed', snap=> {
  alert('child changed');

  const liChanged = document.getElementById(snap.key);

  liChanged.innerText = snap.val();

});
```

# Firebase Storage

Mostly adapted from the firebase website : Firecasts

```
<!DOCTYPE html>
<html>
<head>
    <title></title>
    <meta name="viewport" content="width=device-width, initial-scale=1"/>
    <link rel="stylesheet" href="http://code.jquery.com/mobile/1.4.0/jquery.mobile-1.4.0.min.css"/>
    <script src="http://code.jquery.com/jquery-1.10.2.min.js"></script>
    <script src="http://code.jquery.com/mobile/1.4.0/jquery.mobile-1.4.0.min.js"></script>
</head>
```

```
<script src="https://www.gstatic.com/firebasejs/3.6.9.firebaseio.js"></script>

<script>
// Initialize Firebase <script src = "store.js" >
var config = {
  apiKey: "AIzaSyC077C7YDz7El20Kwh2IlffuP0Fcw3Ixel",
  authDomain: "authenticate-f33c7.firebaseio.com",
  databaseURL: "https://authenticate-f33c7.firebaseio.com",
  storageBucket: "authenticate-f33c7.appspot.com",
  messagingSenderId: "87228285156"
};
firebase.initializeApp(config);
```

```
var fileButton = document.getElementById('filebutton');
var uploader = document.getElementById('uploader');

fileButton.addEventListener('change', function(e) {
  var file = e.target.files[0];
  var storageRef = firebase.storage().ref('lectures/'+file.name);
  var task = storageRef.put(file);
```

```
task.on('state_changed',
  function progress(snapshot) {
    var percentage = (snapshot.bytesTransferred /
snapshot.totalBytes)*100;
uploader.value = percentage ;
    //function error(err) {},
    //function completer(){}
  });
}); // event listener
```

```
$("#downloadbutton").on('click', function(){

window.open("https://firebasestorage.googleapis.com/v0/b/authentic
ate-
f33c7.appspot.com/o/lectures%2FLAB%204%20Sample%20Code_1.do
c?alt=media&token=2a863e64-10dd-4509-975d-976dd60fd1da");

});
```

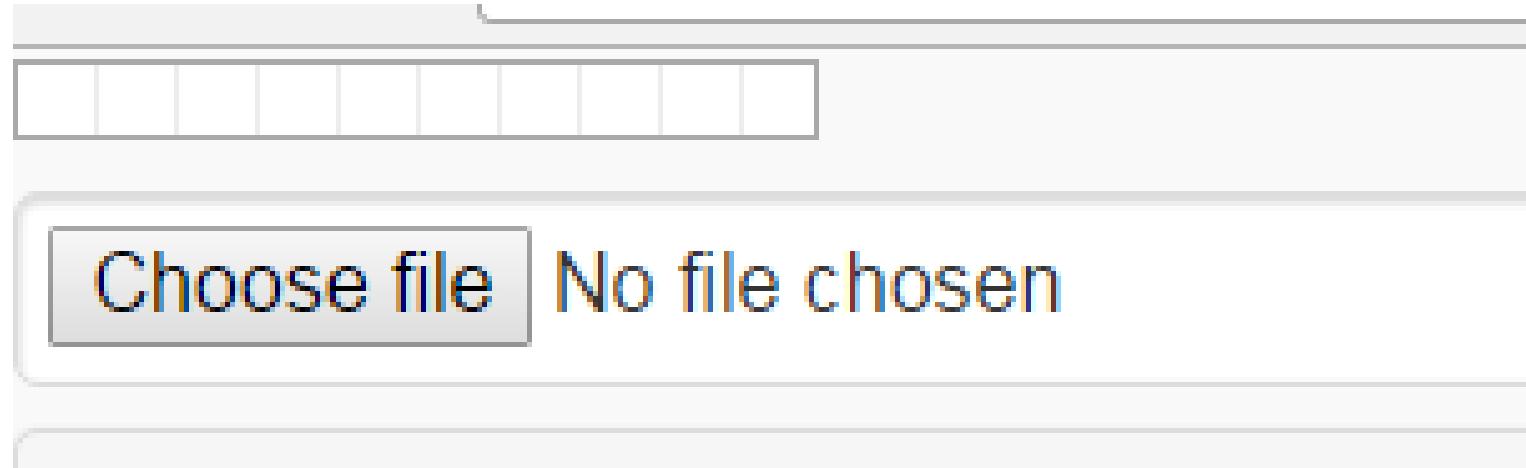
</script>

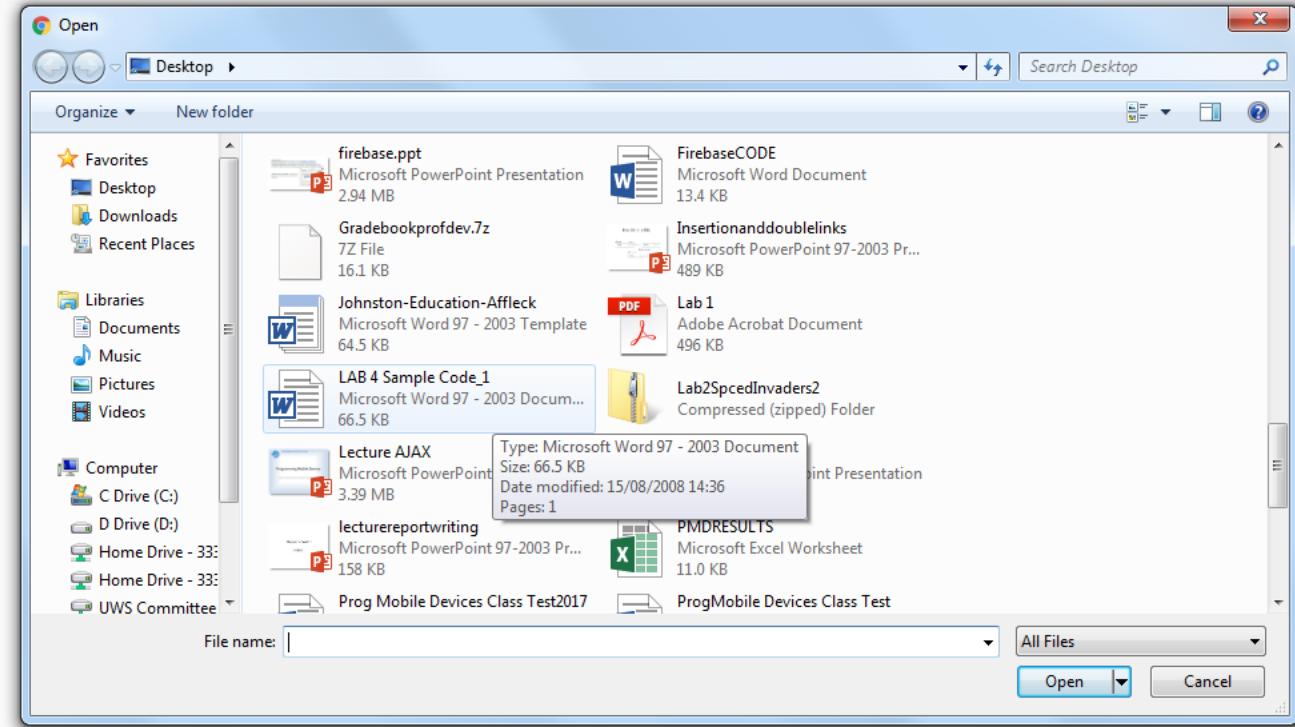
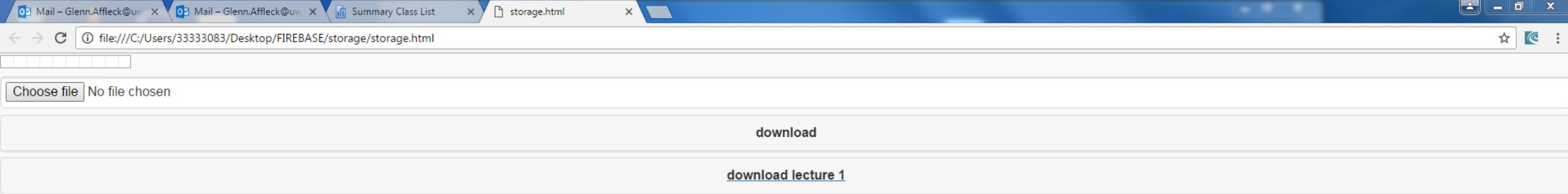
</html>

```
<body>
```

```
<progress value = "0" max = "100" id = "uploader">0%</progress>
```

```
<input type="file" id="filebutton" />
```





Mail – Glenn.Affleck@uw Mail – Glenn.Affleck@uw Summary Class List storage.html

Choose file LAB 4 Sample Code\_1.doc

download

[download lecture 1](#)



**Firebase** Authenticate ▾

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FILES RULES

gs://authenticate-f33c7.appspot.com > lectures

|                          | Name                    | Size    | Type               | Last modified |
|--------------------------|-------------------------|---------|--------------------|---------------|
| <input type="checkbox"/> | LAB 4 Sample Code_1.doc | 66.5 KB | application/msword | Mar 1, 2017   |

UPLOAD FILE +

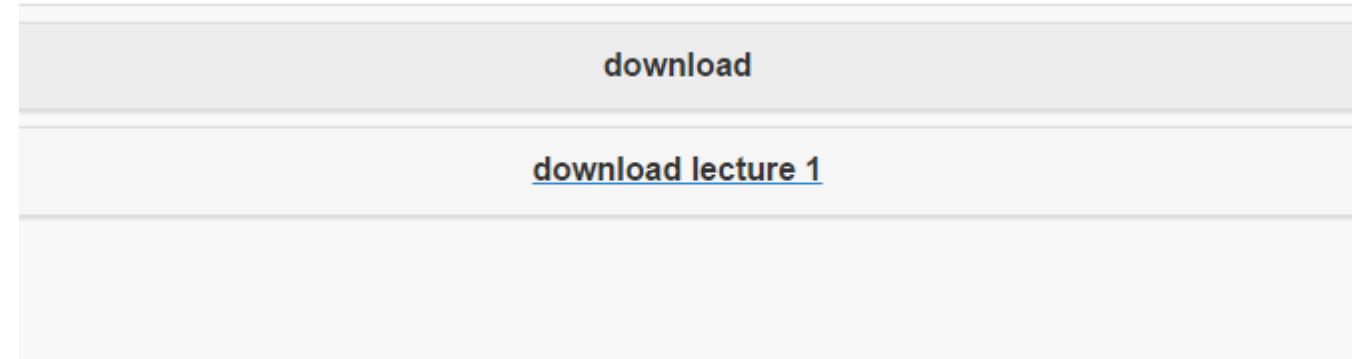
Spark Free \$0/month UPGRADE

Windows Taskbar: Mail, Internet Explorer, File Explorer, Media Player, Music, Excel, PDF, Google Chrome, Microsoft Word, Microsoft PowerPoint

//two examples of download

```
<button id="downloadbutton">download</button>
```

```
<a href = "https://firebasestorage.googleapis.com/v0/b/authenticate-f33c7.appspot.com/o/lectures%2FLAB%204%20Sample%20Code_1.doc?alt=media&token=2a863e64-10dd-4509-975d-976dd60fd1da"><button> download lecture 1</button></a>
</body>
```





Authenticate -

◀ Overview

 Analytics

## Storage

FILES BUIL

DEVELOP

## • Authentication

## Database

 Storage

## Hosting

 Test Lab

■ Navigating

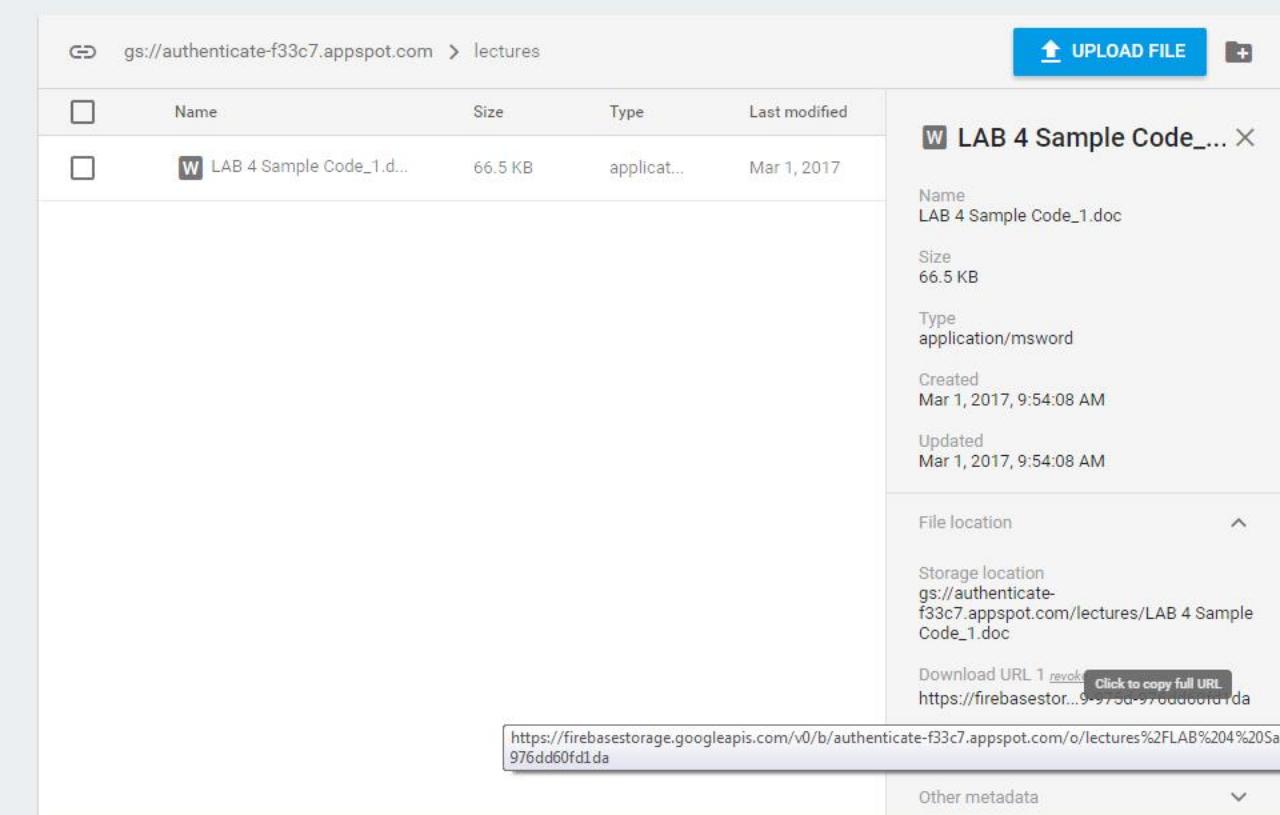
→ Remote Config

EARN

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UPGRADE



```
<script src="https://www.gstatic.com/firebasejs/3.6.9.firebaseio.js"></script>

<script>
// Initialize Firebase <script src = "store.js" >
var config = {
  apiKey: "AIzaSyC077C7YDz7El20Kwh2IlffuP0Fcw3Ixel",
  authDomain: "authenticate-f33c7.firebaseio.com",
  databaseURL: "https://authenticate-f33c7.firebaseio.com",
  storageBucket: "authenticate-f33c7.appspot.com",
  messagingSenderId: "87228285156"
};
firebase.initializeApp(config);
```

```
var fileButton = document.getElementById('filebutton');
var uploader = document.getElementById('uploader');

fileButton.addEventListener('change', function(e) {
  var file = e.target.files[0];
  var storageRef = firebase.storage().ref('lectures/'+file.name);
  var task = storageRef.put(file);
```

```
task.on('state_changed',
  function progress(snapshot) {
    var percentage = (snapshot.bytesTransferred /
snapshot.totalBytes)*100;
uploader.value = percentage ;
    //function error(err) {},
    //function completer(){}
  });
}); // event listener
```

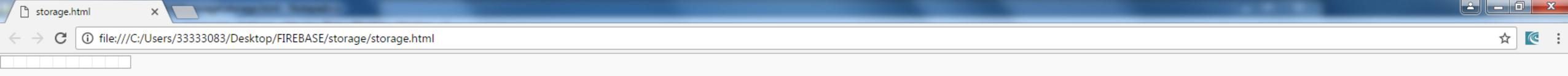
```
$("#downloadbutton").on('click', function(){

window.open("https://firebasestorage.googleapis.com/v0/b/authentic
ate-
f33c7.appspot.com/o/lectures%2FLAB%204%20Sample%20Code_1.do
c?alt=media&token=2a863e64-10dd-4509-975d-976dd60fd1da");

});
```

</script>

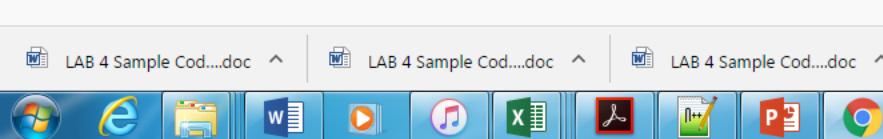
</html>



Choose file No file chosen

**download**

[download lecture 1](#)



Show all

10:30  
01/03/2017

# Firebase Hosting

```
Your environment has been set up for user glenn
C:\Users\glenn>cd ..
C:\Users>cd ..\wroot
C:\wroot>firebase init
? Are you ready to proceed? Yes
? What Firebase CLI features do you want to setup for this folder? Database: Deploy Firebase Realtime Database Rules, Hosting: Configure and deploy Firebase Hosting sites
--- Project Setup
First, let's associate your project with a local directory. You can create multiple aliases by running firebase use --add.
but for now we'll just set up a default project.

? What Firebase project do you want to associate as default? Firstproject <firebasestorage ->
? What file should be used for Database Rules? Database Rules for Firstproject-7bf12.json
? Database Rules for Firstproject-7bf12 have been added to database.rules.json
Future modifications to database.rules.json will update database Rules when you run firebase deploy.

--- Hosting
Your public folder will contain assets that don't have a build step.
Select your folder and don't overwrite your index file
? What do you want as your public directory? Public
? Configure app rewrite all urls to /index.html? No
? Wrote Public\404.html
```

Within the root folder create a public folder  
Within the public folder have your files that you wish to upload  
Change the name of the home page to index.html  
Change into your folder  
If the first time install firebase by typing:  
**npm install -g firebase-tools**  
Then type:  
**firebase init**

Use the cursor:  
Select hosting

Select Y to proceed

Use the cursor to select your desired project from the list of your projects

Select your folder and don't overwrite your index file

? What do you want as your public directory? Public

? Configure app rewrite all urls to /index.html? No

? Wrote Public\404.html

### --- Database Setup

Firebase Realtime Database Rules allow you to define how your data should be structured and when your data can be read from and written to.

```
? What file should be used for Database Rules? database.rules.json
+ Database Rules for firstproject-7bf12 have been downloaded to database.rules.json.
Future modifications to database.rules.json will update Database Rules when you run
firebase deploy.
```

### --- 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.html)? No
+ Wrote Public/404.html
? File Public/index.html already exists. Overwrite? No
i Skipping write of Public/index.html

i Writing configuration info to firebase.json...
i Writing project information to .firebaserc...
+ Firebase initialization complete!
```

You should get the initialization complete message.

```
C:\wroot>_
```

```
--- Database Setup
```

Firebase Realtime Database Rules allow you to define how your data should be structured and when your data can be read from and written to.

```
? What file should be used for Database Rules? database.rules.json
+ Database Rules for firstproject-7bf12 have been downloaded to database.rules.json.
Future modifications to database.rules.json will update Database Rules when you run
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```

```
--- 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.

```
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+ Wrote Public/404.html
? File Public/index.html already exists. Overwrite? No
i Skipping write of Public/index.html
i Writing configuration info to firebase.json...
i Writing project information to .firebaserc...
+ Firebase initialization complete!
```

```
C:\wroot>firebase deploy
```

Type: firebase deploy

Update available: 3.5.0 (current: 3.3.0)
Run `npm install -g firebase-tools` to update.

```
--- Deploying to 'firstproject-7bf12'...
```

```
i deploying database, hosting
+ database: rules ready to deploy
i hosting: preparing Public directory for upload...
+ hosting: Public folder uploaded successfully
+ hosting: 3 files uploaded successfully
i starting release process (may take several minutes)...
+ Deploy complete!
```

Project Console: <https://console.firebaseio.google.com/project/firstproject-7bf12/overview>
Hosting URL: <https://firstproject-7bf12.firebaseioapp.com>

```
C:\wroot>
```

The URL of your hosted site.

Project Console:

Hosting URL:

