

Criando aplicações usando AngularJS e Firebase



Firebase






Objetivos



- Visão geral (Muita abstração)
- Foco nas partes mais interessantes
 - Real time database
 - Authentication
 - Storage
- Template no github
 - SPA
 - Setup de conexão com o firebase app

About



- Graduando em Ciência da Computação pela UFAL
- Laboratório de computação móvel e pervasiva IC/UFAL
- Tribunal de Contas do estado de Alagoas
- BlackBerry Tech Center
- Justiça Federal em Alagoas 
- QuantoGastei   CORDOVA
- Stebam   Firebase

AngularJS - Versões



Angular 1



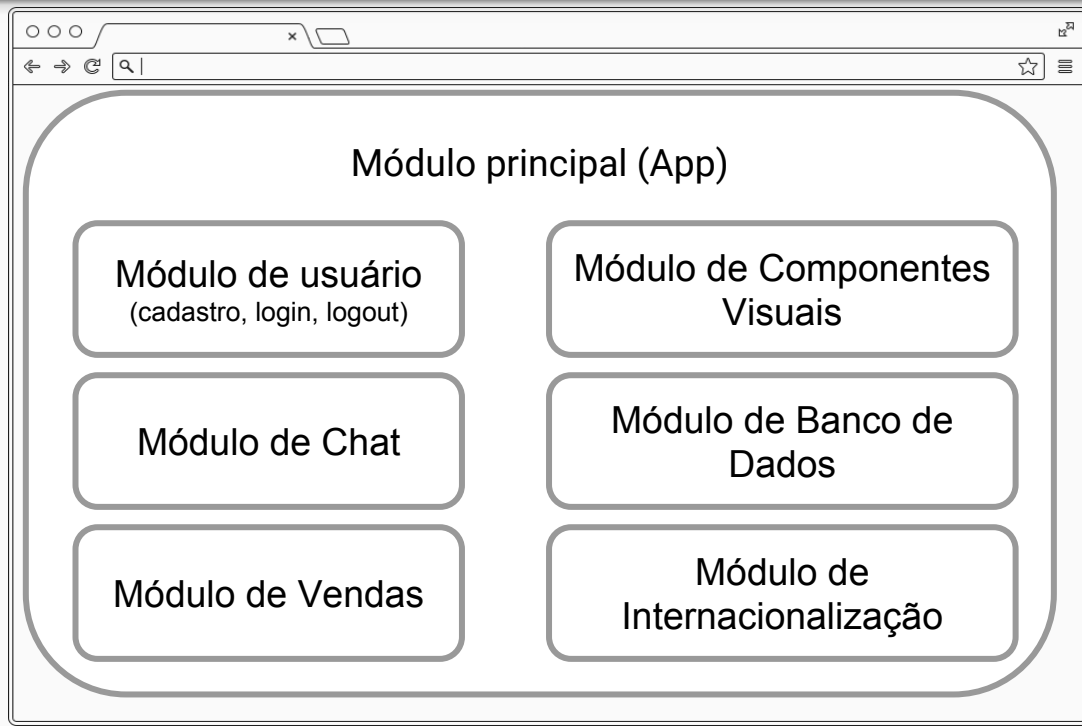
Angular 2



AngularJS

- Base para um app
 - Ferramentas
- Define um padrão arquitetural
 - Desenvolvimento em paralelo
 - Manutenção
- Ensina novos truques ao HTML
 - Comportamentos
 - Componentes

AngularJS - Módulos



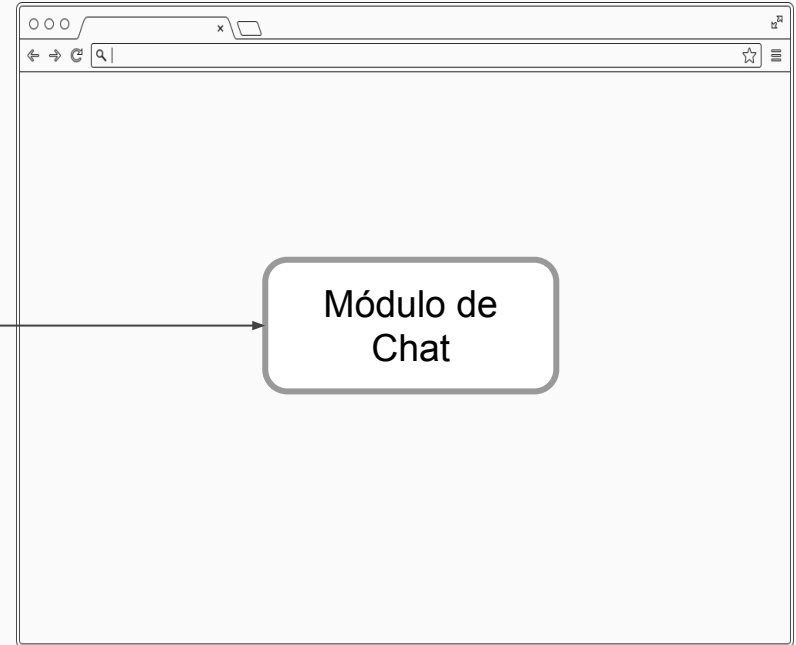
AngularJS - Módulos



App1



App2





AngularJS - Módulos

Comunidade é Compartilhamento





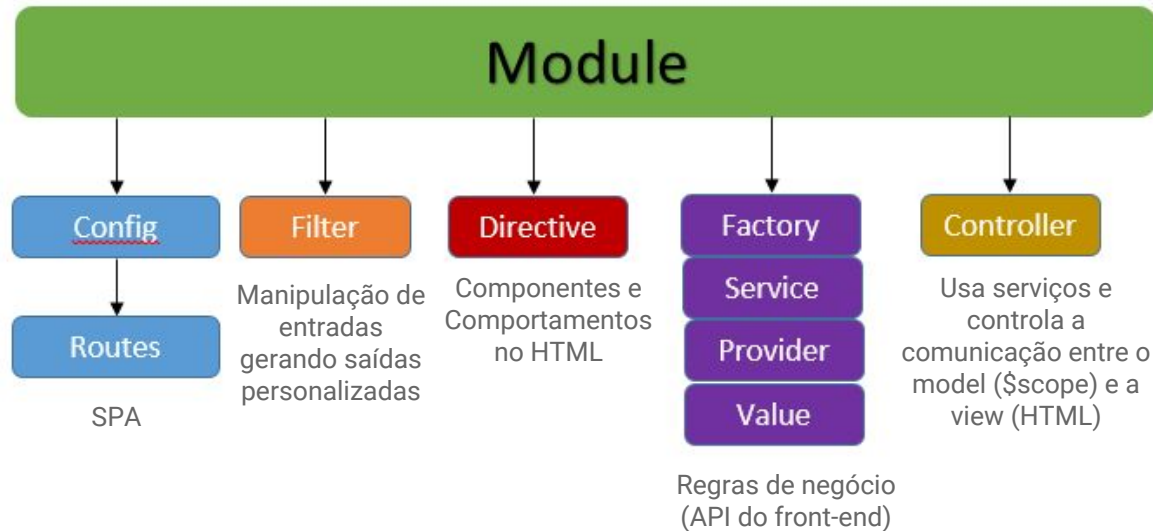
AngularJS - Módulos

Desenvolvimento Paralelo

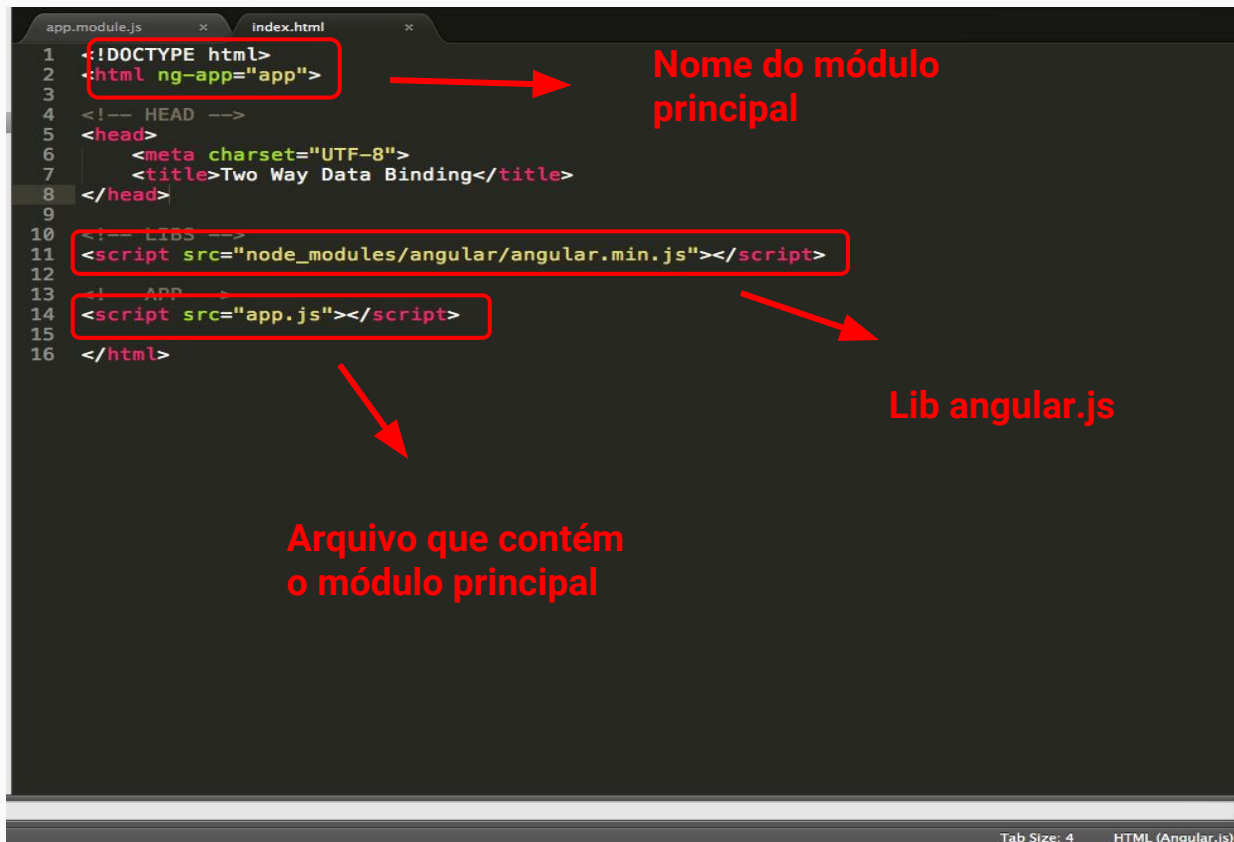




AngularJS - Módulos



AngularJS - SETUP



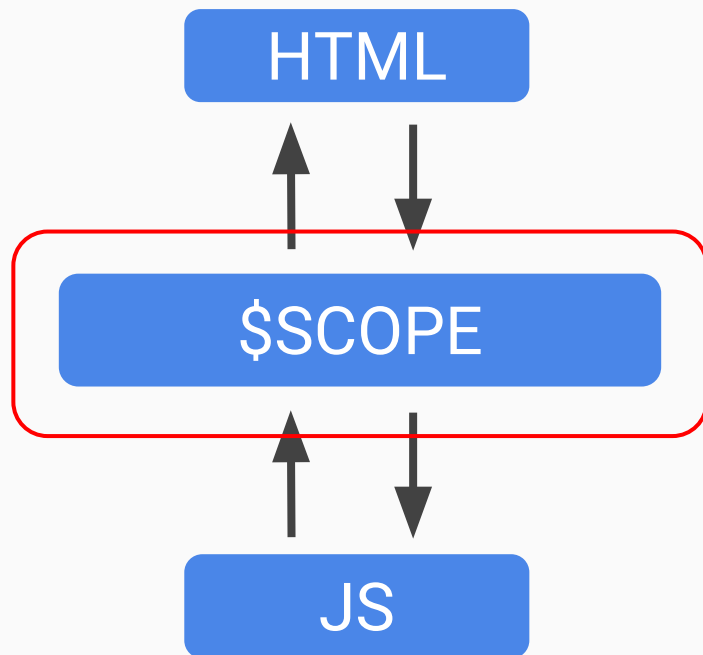
AngularJS - SETUP

```
app.module.js
1 // APP MODULE
2 angular.module('app', [])
3
4 // CONFIG
5 .config([function () {
6   })
7
8 // FILTER
9 .filter('filterName', [function(){
10   }])
11
12 // DIRECTIVE
13 .directive('directiveName', [function () {
14   }])
15
16 // SERVICE
17 .factory('serviceName', [function () {
18   }])
19
20 // CONTROLLER
21 .controller('', ['$scope', function ($scope) {
22   }])
23
24
```



AngularJS - Two Way Data Binding

Área de
compartilhamento
de objetos, arrays ...



Acessada via “{{ }}”
pelo html e via
\$scope pelo JS

AngularJS - Two Way Data Binding

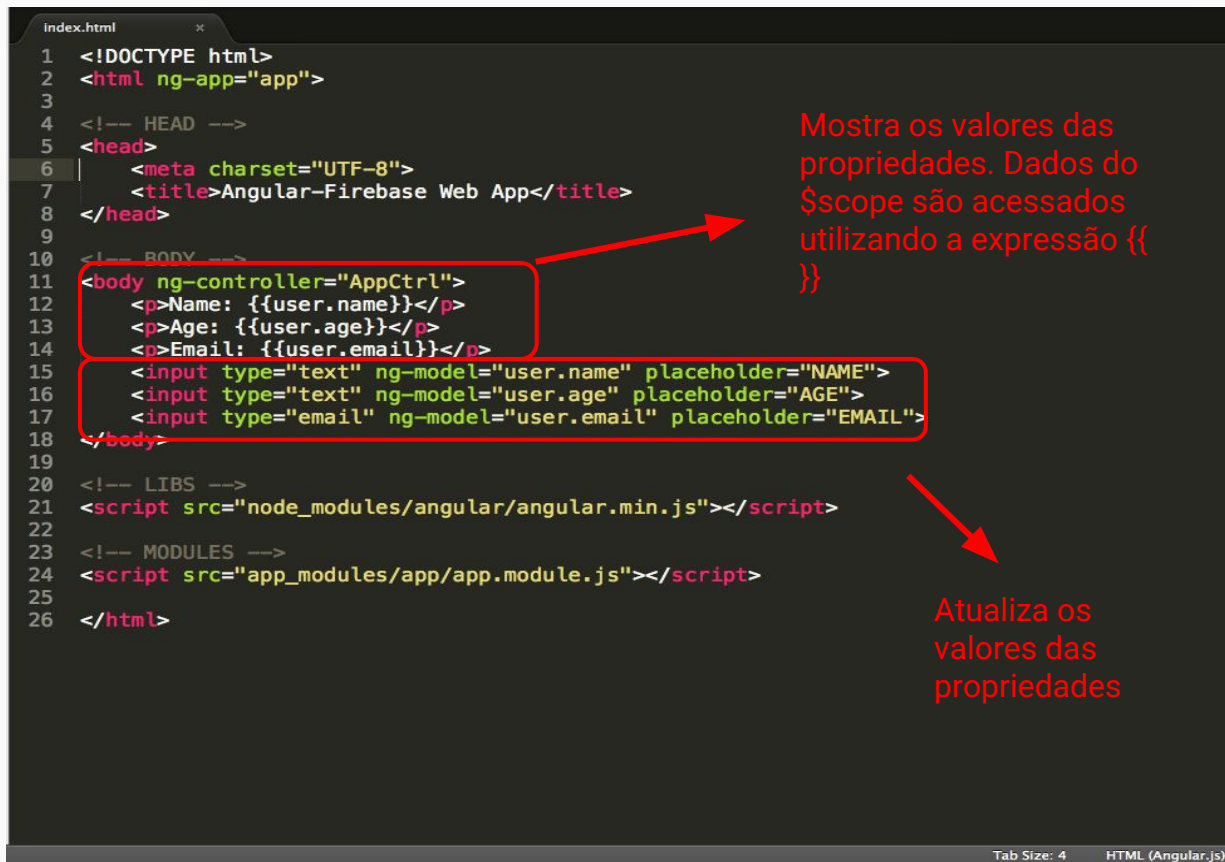
```
1 // APP MODULE
2 angular.module('app', [])
3
4 // CONTROLLER
5 .controller('AppCtrl', ['$scope', function ($scope) {
6
7     // ADDING USER-OBJECT ON $SCOPE(MODEL)
8     // MAKING VISIBLE TO HTML
9     $scope.user = {
10         name: "Iago Barboza",
11         age: 24,
12         email: "iagobarboza@gmail.com"
13     }
14
15 }])
16
```

Serviço do core do angular

Adicionando o objeto "user" na área de compartilhamento de dados

Tab Size: 4 JavaScript

AngularJS - Two Way Data Binding



```
1 <!DOCTYPE html>
2 <html ng-app="app">
3
4 <!-- HEAD -->
5 <head>
6   <meta charset="UTF-8">
7   <title>Angular-Firebase Web App</title>
8 </head>
9
10 <!-- BODY -->
11 <body ng-controller="AppCtrl">
12   <p>Name: {{user.name}}</p>
13   <p>Age: {{user.age}}</p>
14   <p>Email: {{user.email}}</p>
15   <input type="text" ng-model="user.name" placeholder="NAME">
16   <input type="text" ng-model="user.age" placeholder="AGE">
17   <input type="email" ng-model="user.email" placeholder="EMAIL">
18 </body>
19
20 <!-- LIBS -->
21 <script src="node_modules/angular/angular.min.js"></script>
22
23 <!-- MODULES -->
24 <script src="app_modules/app/app.module.js"></script>
25
26 </html>
```

Mostra os valores das propriedades. Dados do \$scope são acessados utilizando a expressão {{ }}

Atualiza os valores das propriedades

Tab Size: 4 HTML (Angular.js)



AngularJS - Two Way Data Binding

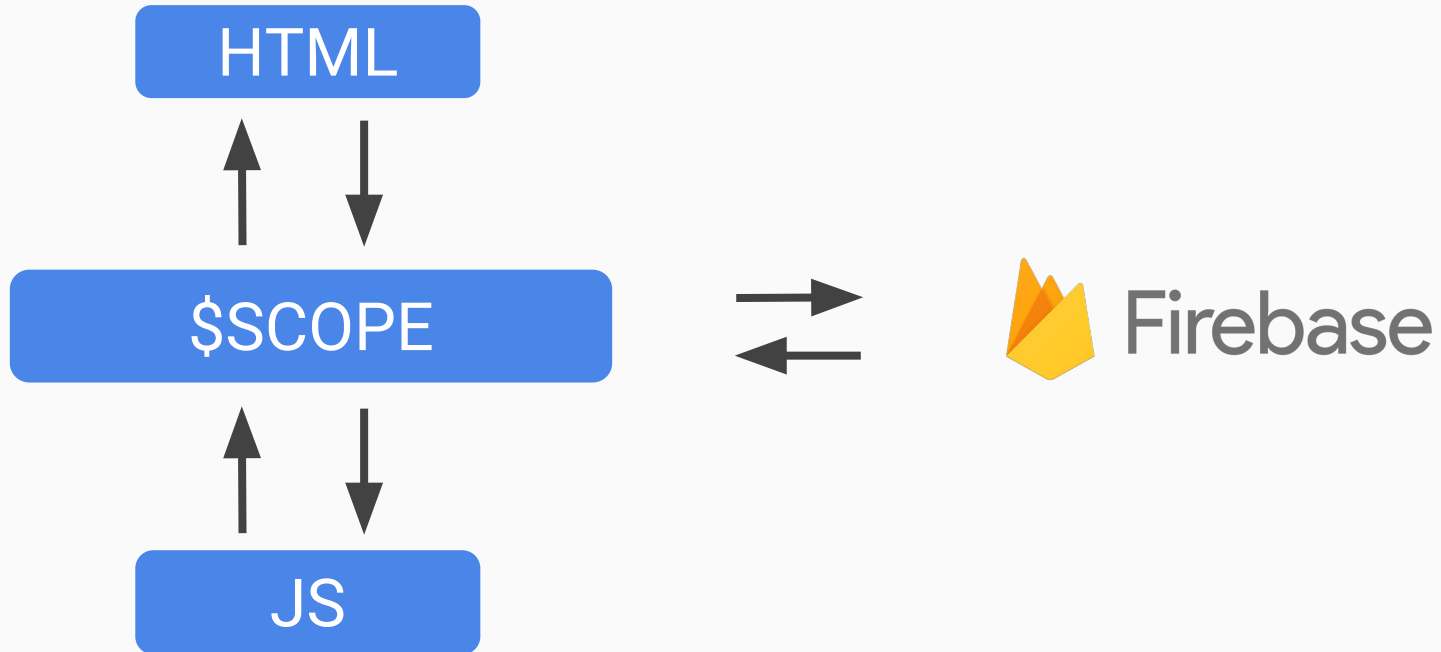
DEMO - server

DEMO - local

Three Way Data Binding



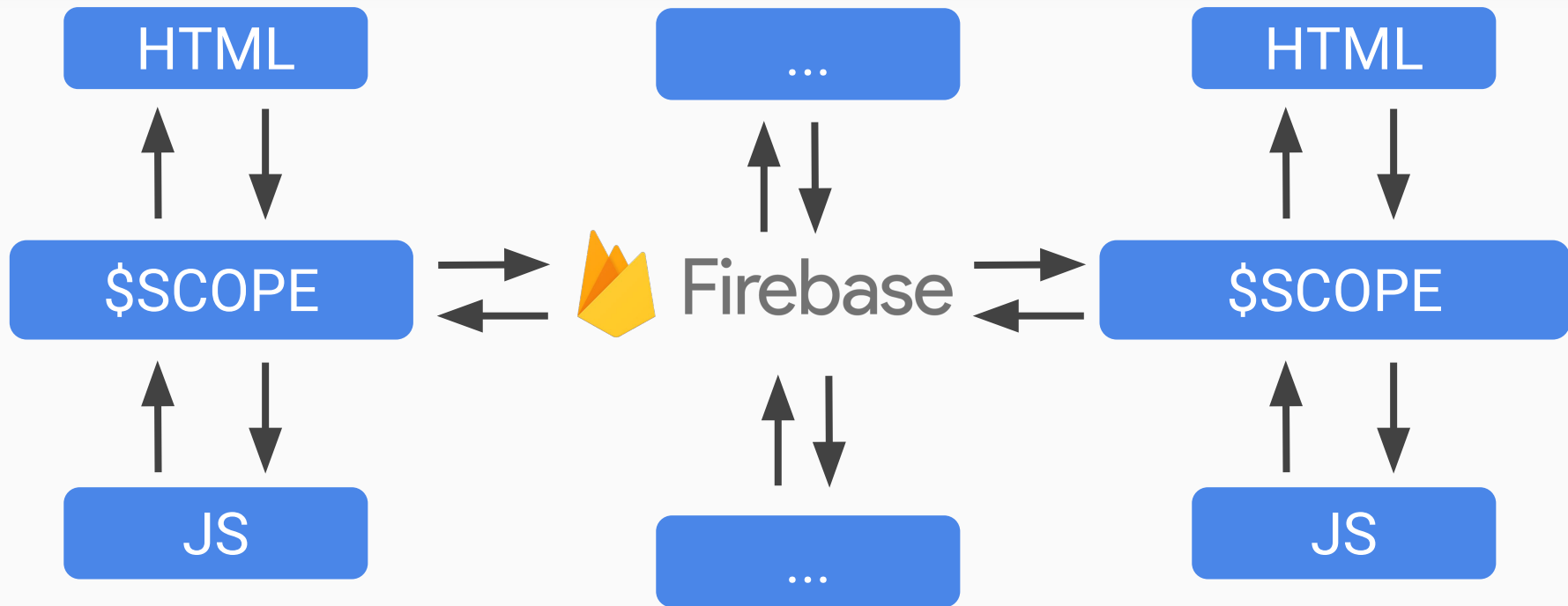
Firebase



N Way Data Binding



Firebase





Firebase - Backend Services



- Autenticação (email, facebook, google, twitter, github)
- Real Time Database
- Storage
- Hosting
- ...

Firebase - Setup


 **Firebase**

Ir para a documentação 


Bem-vindo ao Firebase


Continue a construir seus aplicativos com o Firebase usando alguns dos recursos abaixo.

[Documentação](#) [Exemplo de código](#) [Referência da API](#) [Suporte](#)



Seus projetos que usam o Firebase

congrApp
 congrapp-c1747.firebaseio.com

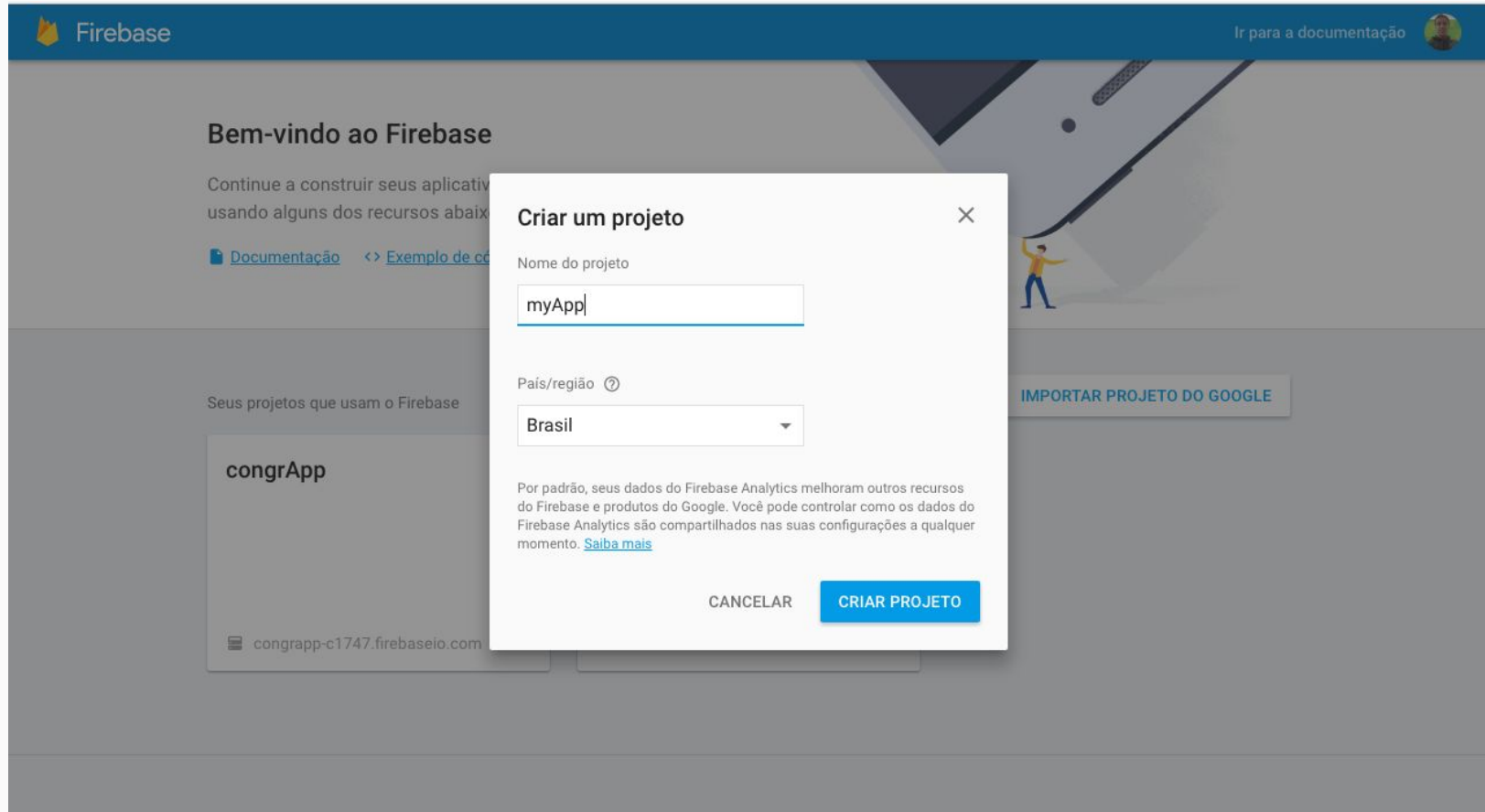
FireChat
 devfestchat-e108e.firebaseio.com

criar novo projeto

importar projeto do google

Waiting for stats.g.doubleclick.net...

Firebase - Setup



The screenshot shows the Firebase console interface. At the top, there's a dark blue header with the Firebase logo and the text "Ir para a documentação" with a user profile icon. The main content area has a light gray background with a large illustration of a person climbing a structure. A modal dialog box titled "Criar um projeto" is centered on the screen. It contains a text input field for "Nome do projeto" with the value "myApp", a dropdown menu for "País/região" with "Brasil" selected, and a "CRIAR PROJETO" button. Below the dropdown, there is a paragraph of text about Firebase Analytics data sharing and a "Saiba mais" link. At the bottom of the dialog are "CANCELAR" and "CRIAR PROJETO" buttons. In the background, the "Bem-vindo ao Firebase" section is visible, along with a list of projects including "congrApp".

Bem-vindo ao Firebase

Continue a construir seus aplicativos usando alguns dos recursos abaixo:

[Documentação](#) < > [Exemplo de código](#)

Seus projetos que usam o Firebase

congrApp

[congrapp-c1747.firebaseio.com](#)

IMPORTAR PROJETO DO GOOGLE

Criar um projeto

Nome do projeto

myApp


País/região ?


Brasil




Por padrão, seus dados do Firebase Analytics melhoram outros recursos do Firebase e produtos do Google. Você pode controlar como os dados do Firebase Analytics são compartilhados nas suas configurações a qualquer momento. [Saiba mais](#)


CANCELAR CRIAR PROJETO

Firebase - Console


 **Firebase**


myApp ▾ Ir para a documentação 


 myApp  Overview 


 Analytics


DEVELOP


 Authentication

 Database


 Storage


 Hosting


 Test Lab

 Crash Reporting

GROW

 Notifications


 Remote Config


 Dynamic Links


EARN

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




Bem-vindo ao Firebase! Comece aqui.


Adicionar o
Firebase ao seu
aplicativo iOS



Adicionar o
Firebase ao seu
aplicativo
Android



Adicionar o
Firebase ao seu
app da Web




Descubra o Firebase




Firebase - Console


 **Firebase**


myApp ▾ Ir para a documentação 


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Bem-vindo ao Firebase! Comece aqui.


Adicionar o
Firebase ao seu
aplicativo iOS


Adicionar o
Firebase ao seu
aplicativo
Android


Adicionar o
Firebase ao seu
app da Web

Descubra o Firebase



Firebase - Database

The screenshot displays the Firebase Realtime Database interface. On the left is a sidebar with navigation links for various Firebase services. The main area shows the 'Realtime Database' for 'myApp', with tabs for 'DADOS', 'REGRAS', 'USO', and 'BACKUPS'. The 'DADOS' tab is active, showing a JSON tree structure for the 'users' collection. The tree contains three user entries, each with 'age', 'email', and 'name' fields. The first entry has an 'age' field with an input box containing '24' and a red 'X' icon. The second entry has an 'age' field with the value '20'. The third entry has an 'age' field with the value '15'.

Navigation Sidebar:

- myApp
- Analytics
- DEVELOP
- Authentication
- Database
- Storage
- Hosting
- Test Lab
- Crash Reporting
- GROW
- Notifications
- Remote Config
- Dynamic Links
- EARN
- Spark Free \$0/month **FAZER UPGRADE**

Realtime Database Header: myApp Ir para a documentação

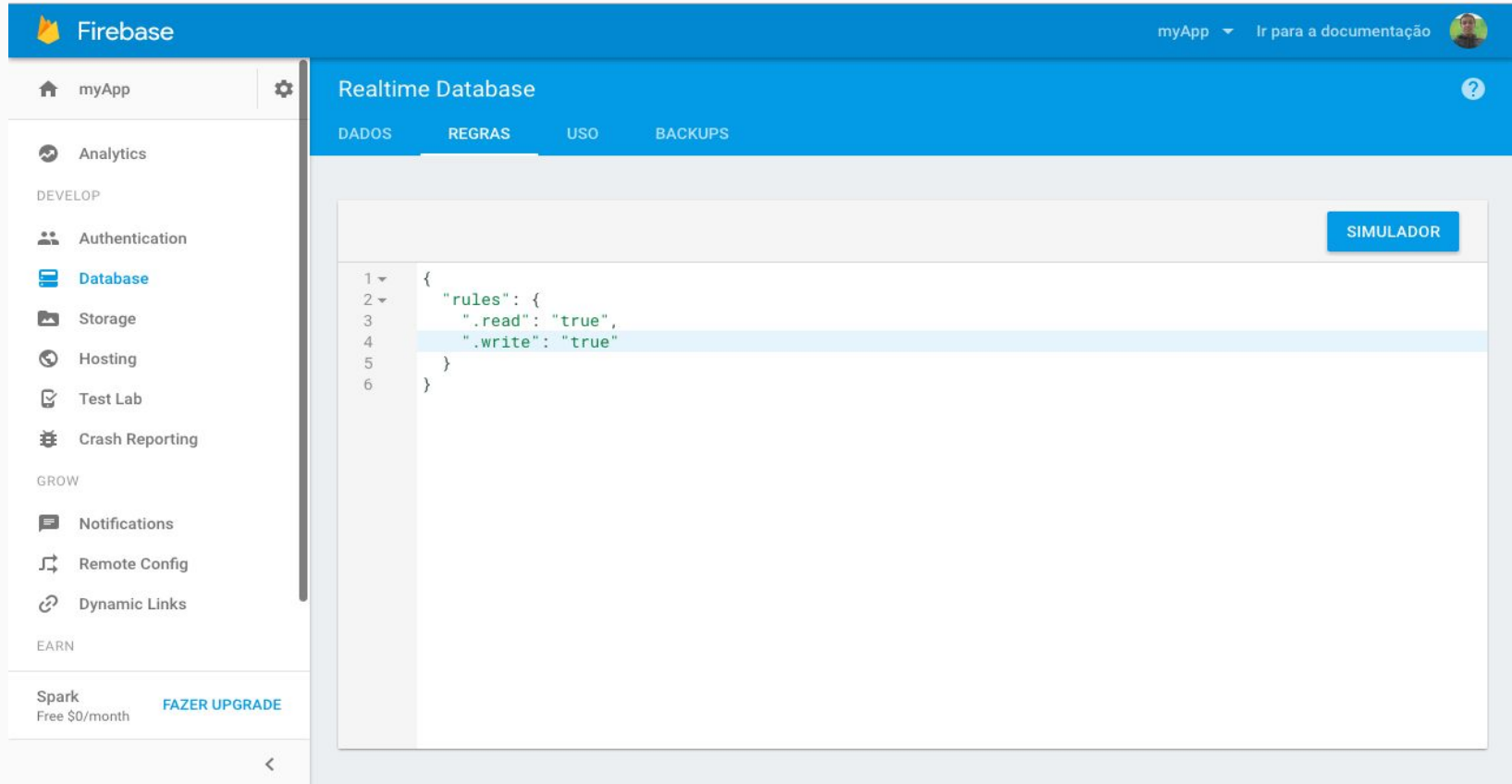
Database Tabs: DADOS REGRAS USO BACKUPS

Database URL: https://myapp-9169f.firebaseio.com/


JSON Tree Structure:

```
myapp-9169f
├── users
│   ├── xgdSd173da3dK3oUUw16
│   │   ├── age: 24
│   │   ├── email: "iagobarboza@gmail.com"
│   │   └── name: "Iago Barboza"
│   ├── ygdSd173dda2K3oUUw16
│   │   ├── age: 20
│   │   ├── email: "fulano@gmail.com"
│   │   └── name: "Fulano"
│   └── zgdSd173da3dK3oUUw16
│       ├── age: 15
│       ├── email: "zezinho@gmail.com"
│       └── name: "Zezinho"
```


Firebase - Database



The screenshot shows the Firebase Realtime Database console. The left sidebar contains a navigation menu with icons and labels for various services: myApp, Analytics, Authentication, Database (highlighted), Storage, Hosting, Test Lab, Crash Reporting, Notifications, Remote Config, Dynamic Links, and Spark. The main area is titled 'Realtime Database' and has tabs for DADOS, REGRAS (selected), USO, and BACKUPS. A 'SIMULADOR' button is in the top right of the main area. The rules editor shows a JSON snippet for database rules.

myApp 

Analytics

DEVELOP

Authentication

Database

Storage

Hosting

Test Lab

Crash Reporting

GROW


Notifications

Remote Config

Dynamic Links

EARN

Spark
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Realtime Database 

DADOS REGRAS USO BACKUPS

[SIMULADOR](#)

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

Firebase - Console

Firebase myApp Ir para a documentação

Overview

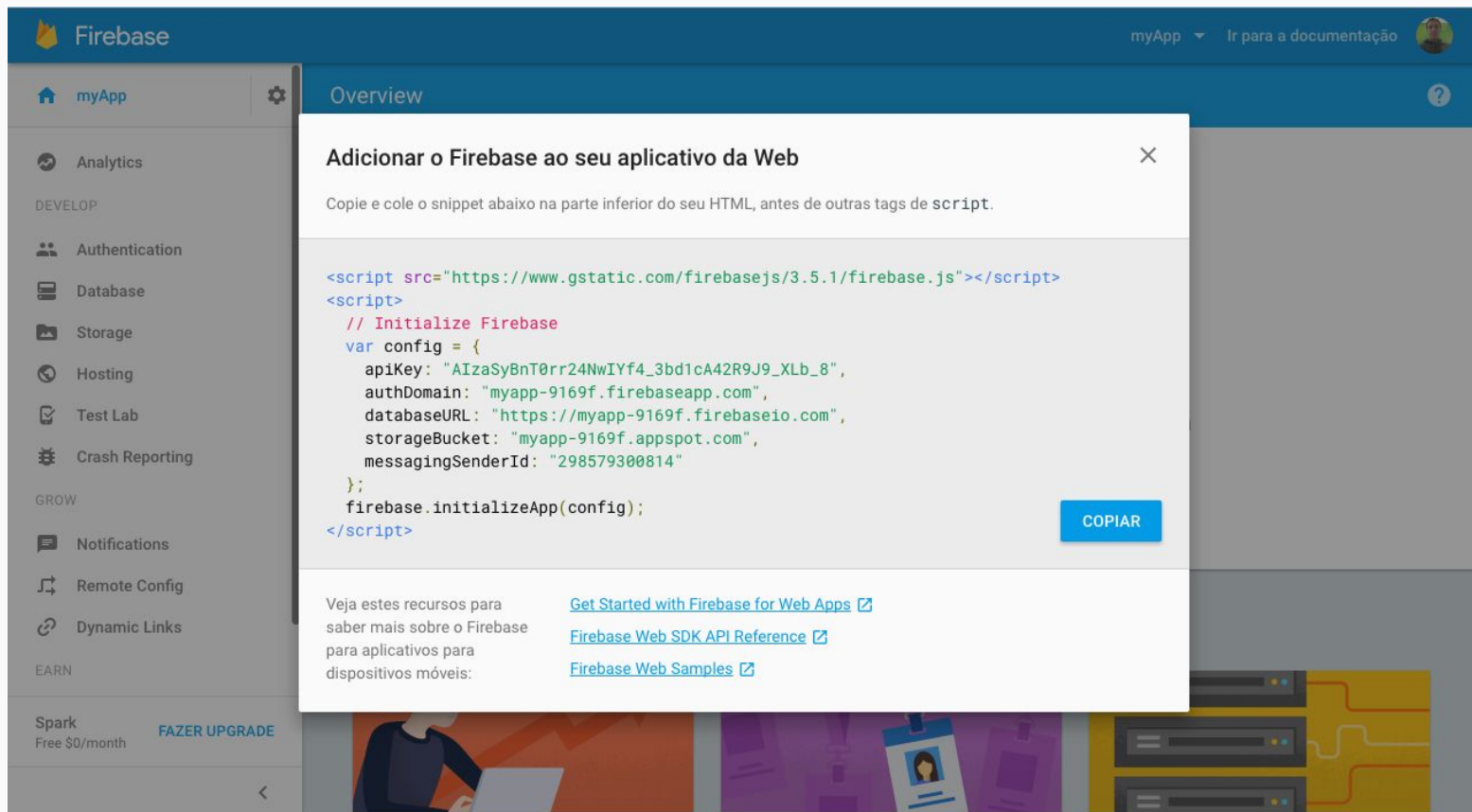
Bem-vindo ao Firebase! Comece aqui.

- iOS**
Adicionar o Firebase ao seu aplicativo iOS
- Android**
Adicionar o Firebase ao seu aplicativo Android
- Web**
Adicionar o Firebase ao seu app da Web

Descubra o Firebase

Spark Free \$0/month FAZER UPGRADE

Setup



The screenshot shows the Firebase console interface. On the left is a sidebar with navigation links: myApp, Analytics, DEVELOP (Authentication, Database, Storage, Hosting, Test Lab, Crash Reporting), GROW (Notifications, Remote Config, Dynamic Links), and EARN (Spark). The main area displays the 'Overview' page for 'myApp'. A modal dialog titled 'Adicionar o Firebase ao seu aplicativo da Web' is open, providing instructions to copy a script snippet into the HTML. The snippet includes the Firebase SDK script tag and an initialization block with project-specific configuration. Below the code, there are links to 'Get Started with Firebase for Web Apps', 'Firebase Web SDK API Reference', and 'Firebase Web Samples'. A 'COPIAR' button is located to the right of the code block.

myApp Ir para a documentação

Adicionar o Firebase ao seu aplicativo da Web

Copie e cole o snippet abaixo na parte inferior do seu HTML, antes de outras tags de script.

```
<script src="https://www.gstatic.com/firebasejs/3.5.1/firebase.js"></script>
<script>
  // Initialize Firebase
  var config = {
    apiKey: "AIzaSyBnT0rr24NwIYf4_3bd1cA42R9J9_XLb_8",
    authDomain: "myapp-9169f.firebaseio.com",
    databaseURL: "https://myapp-9169f.firebaseio.com",
    storageBucket: "myapp-9169f.appspot.com",
    messagingSenderId: "298579300814"
  };
  firebase.initializeApp(config);
</script>
```

COPIAR

Veja estes recursos para saber mais sobre o Firebase para aplicativos para dispositivos móveis:

- [Get Started with Firebase for Web Apps](#)
- [Firebase Web SDK API Reference](#)
- [Firebase Web Samples](#)

AngularFire



Firebase



AngularFire

by  Firebase

\$firebaseObject

\$firebaseArray

\$firebaseAuth

firebase.database().ref()

firebase.auth()

```
1 <!DOCTYPE html>
2 <html ng-app="app">
3
4 <!-- HEAD -->
5 <head>
6   <meta charset="UTF-8">
7   <title>Three Way Data Binding</title>
8 </head>
9
10 <!-- FIREBASE -->
11 <script src="https://www.gstatic.com/firebasejs/3.5.1/firebase.js"></script>
12
13 <!-- FIREBASE APP CONNECTION -->
14 <script>
15   // Initialize Firebase
16   var config = {
17     apiKey: "AIzaSyBnT0rr24NwIYf4_3bd1cA42R9J9_XLb_8",
18     authDomain: "myapp-9169f.firebaseio.com",
19     databaseURL: "https://myapp-9169f.firebaseio.com",
20     storageBucket: "myapp-9169f.appspot.com",
21     messagingSenderId: "298579300814"
22   };
23   firebase.initializeApp(config);
24 </script>
25 <!-- ANGULAR -->
26 <script src="node_modules/angular/angular.min.js"></script>
27 <!-- ANGULAR FIRE -->
28 <script src="node_modules/angularfire/dist/angularfire.min.js"></script>
29 <!-- APP -->
30 <script src="app.js"></script>
31
32 <!-- BODY -->
33 <body ng-controller="AppCtrl">
34   <h1>USER</h1>
35   <p>Name: {{user.name}}</p>
36   <p>Age: {{user.age}}</p>
37   <p>Email: {{user.email}}</p>
38   <input type="text" ng-model="user.name" placeholder="NAME">
39   <input type="text" ng-model="user.age" placeholder="AGE">
40   <input type="email" ng-model="user.email" placeholder="EMAIL">
41
42   <h3>USERS</h3>
43   <div ng-repeat="user in users">
44     <hr>
45     <p>Name: {{user.name}}</p>
46     <p>Age: {{user.age}}</p>
47     <p>Email: {{user.email}}</p>
48   </div>
49 </body>
50
```

Lib firebase

Script de conexão
entre o webapp e o
firebase-app

Lib angularfire

Mostra os valores das
propriedades

Atualiza os valores das
propriedades

Mostra os usuários da
lista users

Firebase + Angular Setup

```
index.html × app.js ×
1 // APP MODULE
2 angular.module('app', ['firebase']) → angular-fire
3
4 // CONTROLLER
5 .controller('AppCtrl', ['$scope', '$firebaseObject', '$firebaseArray', function ($scope, $firebaseObject, $firebaseArray) {
6
7     // USER
8     var user = $firebaseObject(firebase.database().ref('users/xgdSd173da3dK3oUUw16'));
9     user.$loaded(function(){
10         user.$bindTo($scope, 'user');
11     });
12
13     // USERS
14     $scope.users = $firebaseArray(firebase.database().ref('users'));
15
16 })
17
```

AngularJS - Three Way Data Binding





DEMO - server



DEMO - local


FIREBASE - DB

Authentication - Email and Password


 **Firebase**


myApp ▾ Ir para a documentação 


 myApp 


 Analytics


DEVELOP


 **Authentication**

 Database


 Storage


 Hosting


 Test Lab

 Crash Reporting

GROW

 Notifications

 Remote Config

 Dynamic Links







EARN

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Authentication CONFIGURAÇÃO DA WEB ?

USUÁRIOS MÉTODO DE LOGIN MODELOS DE E-MAIL

Provedores de login

Provedor	Status
 E-mail/senha	<div>Ativar <input checked="" type="checkbox"/></div> <p>Permite que os usuários se inscrevam usando o endereço de e-mail e a senha deles. Nossos SDKs também oferecem verificação de endereço de e-mail, recuperação de senha e primitivos de alteração de endereço de e-mail. Saiba mais </p> <div>CANCELAR SALVAR</div>
 Google	Desativado
 Facebook	Ativado
 Twitter	Desativado
 GitHub	Desativado

Authentication - Criando usuário com Email e Senha

```
index.html — 06-storage x app.js x index.html — 04-sign-in-with-email-and-password x index.html — 03-create-user-with-email-and-password x
1 <!DOCTYPE html>
2 <html ng-app="app">
3
4 <!-- HEAD -->
5 <head>
6   <meta charset="UTF-8">
7   <title>Create user with email and password</title>
8 </head>
9
10 <!-- FIREBASE-->
11 <script src="https://www.gstatic.com/firebasejs/3.5.1/firebase.js"></script>
12
13 <!-- FIREBASE APP CONNECTION -->
14 <script>
15   // Initialize Firebase
16   var config = {
17     apiKey: "AIzaSyBnT0rr24NwIYf4_3bd1cA42R9J9_XLb_8",
18     authDomain: "myapp-9169f.firebaseio.com",
19     databaseURL: "https://myapp-9169f.firebaseio.com",
20     storageBucket: "myapp-9169f.appspot.com",
21     messagingSenderId: "298579300814"
22   };
23   firebase.initializeApp(config);
24 </script>
25
26 <!-- ANGULAR -->
27 <script src="node_modules/angular/angular.min.js"></script>
28
29 <!-- ANGULAR FIRE -->
30 <script src="node_modules/angularfire/dist/angularfire.min.js"></script>
31
32 <!-- APP -->
33 <script src="app.js"></script>
34
35 <!-- BODY -->
36 <body ng-controller="AppCtrl">
37
38 </body>
39
40 </html>
```

Tab Size: 4 HTML (Angular.js)

Authentication - Criando usuário com Email e Senha

```
app.js — 03-create-us × app.js — 05-sign-in-v × app.js — 04-sign-in-v × index.html — 03-crea × index.html — 04-sign × index.html — 05-sign ×
1 // APP MODULE
2 angular.module('app', ['firebase'])
3
4 // CONTROLLER
5 .controller('AppCtrl', ['$scope', '$firebaseAuth', function ($scope, $firebaseAuth) {
6     var auth = $firebaseAuth(firebase.auth());
7
8     // CREATE USER WITH EMAIL AND PASSWORD
9     auth.$createUserWithEmailAndPassword('iagobarboza@gmail.com', '123456').then(
10         // SUCCESS CALLBACK
11         function(response){
12             console.log(response);
13         },
14         // ERROR CALLBACK
15         function(error)
16         {
17             console.log(error.message)
18         }
19     );
20 }])
21
```

Tab Size: 4 JavaScript



firebase

Criando usuário com email e senha

DEMO - server

DEMO - local

FIREBASE - AUTH

Authentication - Login do usuário com Email e Senha

```
Index.html — 06-storage x app.js x Index.html — 04-sign-in-with-email-and-password x
1 <!DOCTYPE html>
2 <html ng-app="app">
3
4 <!-- HEAD -->
5 <head>
6   <meta charset="UTF-8">
7   <title>Sign In with email and password</title>
8 </head>
9
10 <!-- FIREBASE-->
11 <script src="https://www.gstatic.com/firebasejs/3.5.1/firebase.js"></script>
12
13 <!-- FIREBASE APP CONNECTION -->
14 <script>
15   // Initialize Firebase
16   var config = {
17     apiKey: "AIzaSyBnT0rr24NwIYf4_3bd1cA42R9J9_XLb_8",
18     authDomain: "myapp-9169f.firebaseio.com",
19     databaseURL: "https://myapp-9169f.firebaseio.com",
20     storageBucket: "myapp-9169f.appspot.com",
21     messagingSenderId: "298579300814"
22   };
23   firebase.initializeApp(config);
24 </script>
25
26 <!-- ANGULAR -->
27 <script src="node_modules/angular/angular.min.js"></script>
28
29 <!-- ANGULAR FIRE -->
30 <script src="node_modules/angularfire/dist/angularfire.min.js"></script>
31
32 <!-- APP -->
33 <script src="app.js"></script>
34
35 <!-- BODY -->
36 <body ng-controller="AppCtrl">
37
38 </body>
39
40 </html>
```

Authentication - Login do usuário com Email e Senha

```
app.js
1 // APP MODULE
2 angular.module('app', ['firebase'])
3
4 // CONTROLLER
5 .controller('AppCtrl', ['$scope', '$firebaseAuth', function ($scope, $firebaseAuth) {
6     var auth = $firebaseAuth(firebase.auth());
7
8     // CREATE USER WITH EMAIL AND PASSWORD
9     auth.$signInWithEmailAndPassword('iagobarboza@gmail.com', '123456').then(
10         // SUCCESS CALLBACK
11         function(response){
12             console.log(response);
13         },
14         // ERROR CALLBACK
15         function(error)
16         {
17             console.log(error.message)
18         }
19     );
20 })
21
```



firebase

Login do usuário com email e senha

DEMO - server

DEMO - local

FIREBASE - AUTH

Authentication - Login do usuário com facebook

```
1  <!DOCTYPE html>
2  <html ng-app="app">
3
4  <!-- HEAD -->
5  <head>
6    <meta charset="UTF-8">
7    <title>Sign In with Facebook</title>
8  </head>
9
10 <!-- FIREBASE-->
11 <script src="https://www.gstatic.com/firebasejs/3.5.1/firebase.js"></script>
12
13 <!-- FIREBASE APP CONECTION -->
14 <script>
15   // Initialize Firebase
16   var config = {
17     apiKey: "AIzaSyBnT0rr24NwIYf4_3bd1cA42R9J9_XLb_8",
18     authDomain: "myapp-9169f.firebaseio.com",
19     databaseURL: "https://myapp-9169f.firebaseio.com",
20     storageBucket: "myapp-9169f.appspot.com",
21     messagingSenderId: "298579300814"
22   };
23   firebase.initializeApp(config);
24 </script>
25
26 <!-- ANGULAR -->
27 <script src="node_modules/angular/angular.min.js"></script>
28
29 <!-- ANGULAR FIRE -->
30 <script src="node_modules/angularfire/dist/angularfire.min.js"></script>
31
32 <!-- APP -->
33 <script src="app.js"></script>
34
35 <!-- BODY -->
36 <body ng-controller="AppCtrl">
37
38 </body>
39
40 </html>
```

Authentication - Login do usuário com facebook

```
app.js — 05-sign-in-with-fa × app.js — 04-sign-in-with-e: × index.html — 03-create-use × index.html — 04-sign-in-wi × index.html — 05-sign-in-wi ×
1 // APP MODULE
2 angular.module('app', ['firebase'])
3
4 // CONTROLLER
5 .controller('AppCtrl', ['$scope', '$firebaseAuth', function ($scope, $firebaseAuth) {
6     var auth = $firebaseAuth(firebase.auth());
7
8     // FACEBOOK LOGIN
9     var fbProvider = new firebase.auth.FacebookAuthProvider();
10    auth.$signInWithPopup(fbProvider);
11    firebase.auth().signInWithPopup(fbProvider).then(function(result) {
12        console.log(result);
13    })
14    .catch(function(error) {
15        console.log(error);
16    });
17 }]);
18
```

Tab Size: 4 JavaScript



Firebase


Login do usuário com facebook


DEMO - server



DEMO - local

FIREBASE - AUTH

Storage


 **Firebase**


myApp ▾ Ir para a documentação 


 myApp 


Analytics


DEVELOP


 Authentication

 Database


 **Storage**


 Hosting


 Test Lab

 Crash Reporting

GROW


 Notifications

 Remote Config




 Dynamic Links


EARN

Spark
Free \$0/month **FAZER UPGRADE**

Storage 

ARQUIVOS REGRAS

gs://myapp-9169f.appspot.com  **FAZER UPLOAD DE ARQUIVO**  

<input type="checkbox"/>	Nome	Tamanho	Tipo	Última modificação
<div><p>Armazenar e recuperar arquivos gerados pelo usuário, como imagens, áudio e vídeos, sem o código do lado do servidor</p>Saiba mais</div>				

Storage

The screenshot displays the Firebase console interface for a project named 'myApp'. The left sidebar contains a navigation menu with various services: Analytics, Database, Storage (highlighted in blue), Hosting, Test Lab, Crash Reporting, Notifications, Remote Config, and Dynamic Links. At the bottom of the sidebar, there is a 'Spark' section indicating 'Free \$0/month' and a 'FAZER UPGRADE' link. The main content area is titled 'Storage' and has two tabs: 'ARQUIVOS' and 'REGRAS' (selected). The 'REGRAS' tab shows a code editor with the following default security rules:

```
1 service firebase.storage {  
2   match /b/myapp-9169f.appspot.com/o {  
3     match /{allPaths=**} {  
4       allow read, write;  
5     }  
6   }  
7 }  
8
```

The code is presented in a light-themed editor with line numbers on the left. The 'Storage' header and the 'REGRAS' tab are highlighted in blue.

```
1 <!DOCTYPE html>
2 <html ng-app="app">
3
4 <!-- HEAD -->
5 <head>
6   <meta charset="UTF-8">
7   <title>Storage</title>
8 </head>
9
10 <!-- FIREBASE -->
11 <script src="https://www.gstatic.com/firebasejs/3.5.1/firebase.js"></script>
12
13 <!-- FIREBASE APP CONNECTION -->
14 <script>
15   // Initialize Firebase
16   var config = {
17     apiKey: "AIzaSyBnT0rr24NwIYf4_3bd1cA42R9J9_XLb_8",
18     authDomain: "myapp-9169f.firebaseio.com",
19     databaseURL: "https://myapp-9169f.firebaseio.com",
20     storageBucket: "myapp-9169f.appspot.com",
21     messagingSenderId: "298579300814"
22   };
23   firebase.initializeApp(config);
24 </script>
25
26 <!-- ANGULAR -->
27 <script src="node_modules/angular/angular.min.js"></script>
28
29 <!-- ANGULAR FIRE -->
30 <script src="node_modules/angularfire/dist/angularfire.min.js"></script>
31
32 <!-- APP -->
33 <script src="app.js"></script>
34
35 <!-- BODY -->
36 <body ng-controller="AppCtrl">
37   <!-- FILE INPUT -->
38   <input type="file" onchange="angular.element(this).scope().setFile(this)">
39   <!-- UPLOAD BUTTON -->
40   <button ng-click="upload()">UPLOAD</button>
41 </body>
42
43 </html>
```

```
9
10 // FILE DOWNLOAD
11 storageRef.child('image.png').getDownloadURL().then(function(url) {
12     console.log(url);
13 })
14 .catch(function(error) {
15     console.log(error);
16 });
17
18 // FILE UPLOAD
19
20 var metadata = {
21     contentType: 'image/png'
22 };
23
24 $scope.setFile = function(element){
25     $scope.file = element.files[0];
26 }
27
28 $scope.upload = function(){
29     var uploadTask = storageRef.child('').put($scope.file, metadata);
30     uploadTask.on(firebase.storage.TaskEvent.STATE_CHANGED,
31         // UPLOAD RUNNING
32         function(snapshot) {
33             var progress = (snapshot.bytesTransferred / snapshot.totalBytes) * 100;
34             console.log('Upload is ' + progress + '% done');
35         },
36         // UPLOAD ERROR
37         function(error) {
38             console.log(error);
39         },
40         // UPLOAD FINISHED
41         function() {
42             var downloadURL = uploadTask.snapshot.downloadURL;
43             console.log("File URL: ");
44             console.log(downloadURL);
45         }
46     );
47 }
48 })
49
```

Storage



Firestore

DEMO - server

DEMO - local

FIREBASE - STORAGE



AngularJS - Referências



- angularjs.org
- github.com/angular/angular.js
- **Book:** AngularJS - Uma abordagem prática e objetiva (M. Henrique Pereira)
- **Book:** AngularJS Up and Running (O'Reilly)

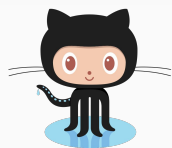
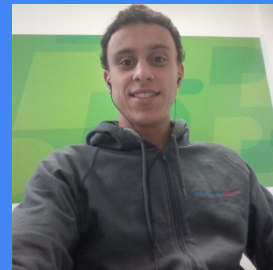
Firebase - Referências

<https://firebase.google.com>

<https://github.com/firebase/angularfire>

<https://www.firebase.com/docs/web/libraries/angular>

- Exemplos
- Documentação
 - Auth
 - \$firebaseObject
 - \$firebaseArray
 - ...



/iagobarboza (exemplos e template)



/iagobs



/iagobarboza



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