

Criando aplicações usando AngularJS e Firebase








Objetivos



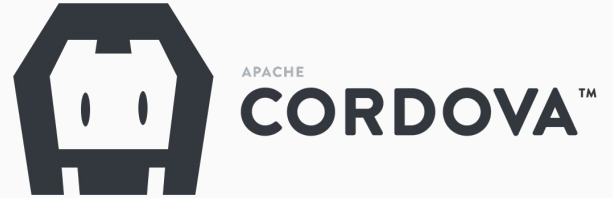
- Visão geral (Muita abstração)
- Foco nas partes mais interessantes
 - Real time database
 - Authentication
 - Storage
- Template no github
 - SPA
 - Setup de conexão com o firebase app

About me



- 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

Stack



AngularJS - Versões



Angular 1

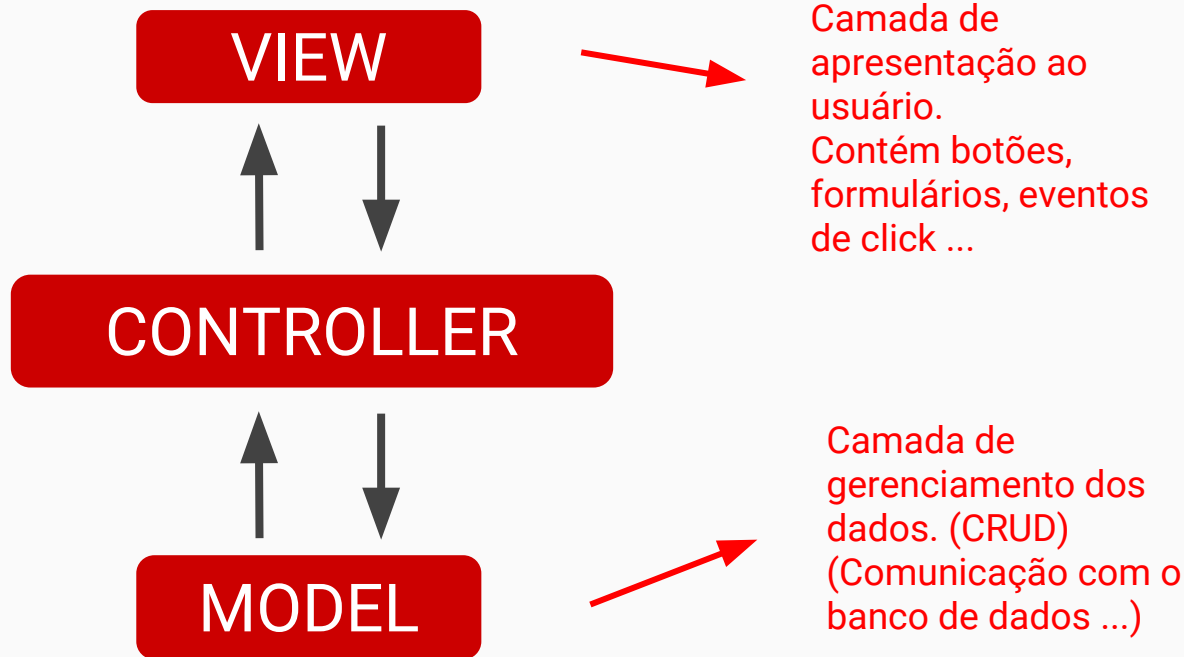


Angular 2

AngularJS - Requisitos



AngularJS - Requisitos



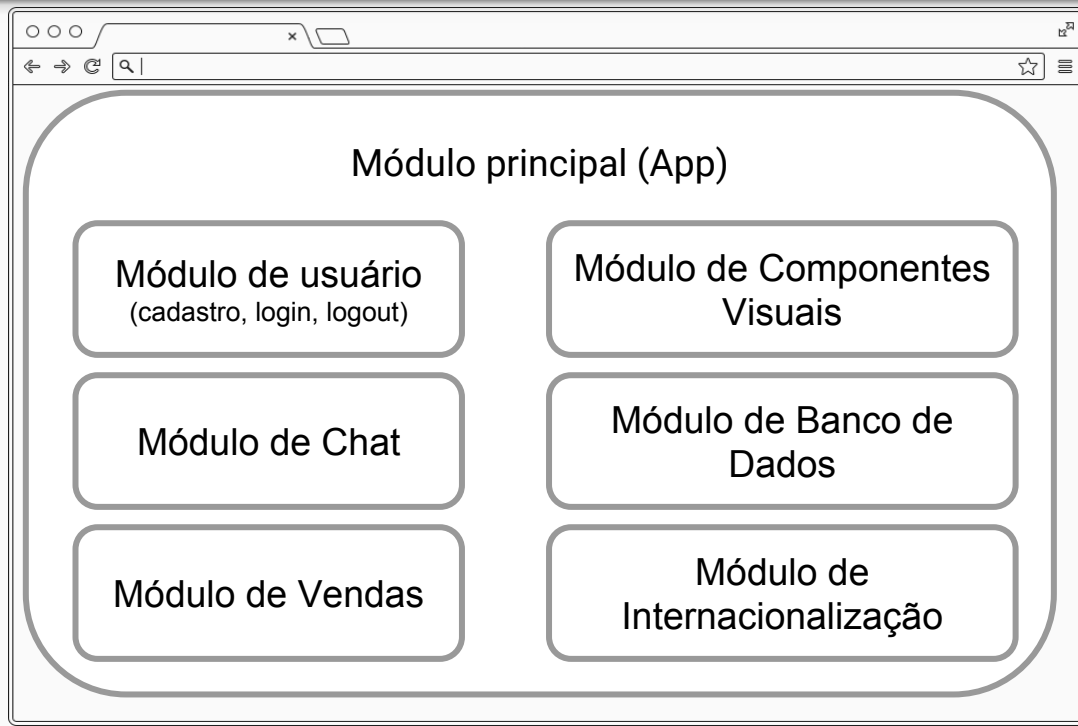


AngularJS

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



AngularJS - Módulos



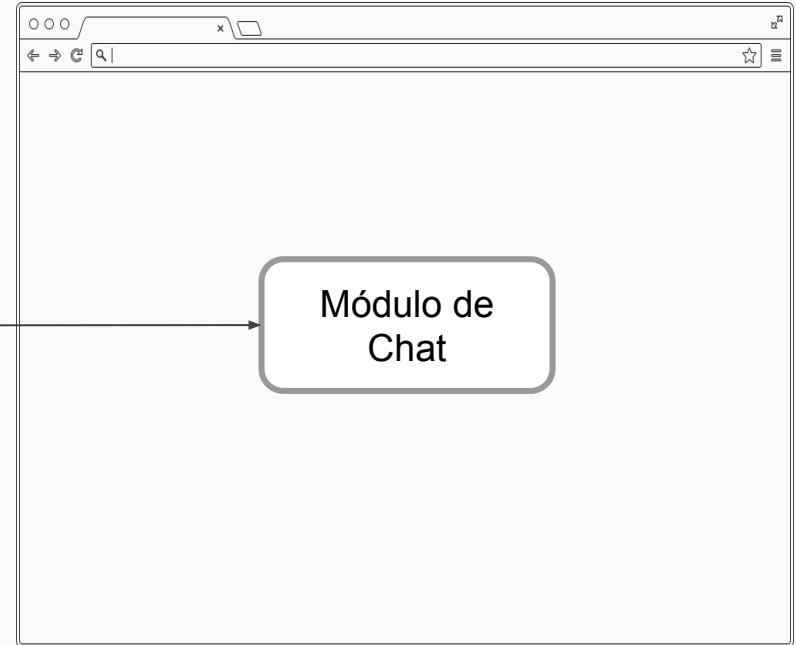
AngularJS - Módulos



App1



App2





AngularJS - Módulos

Comunidade é Compartilhamento





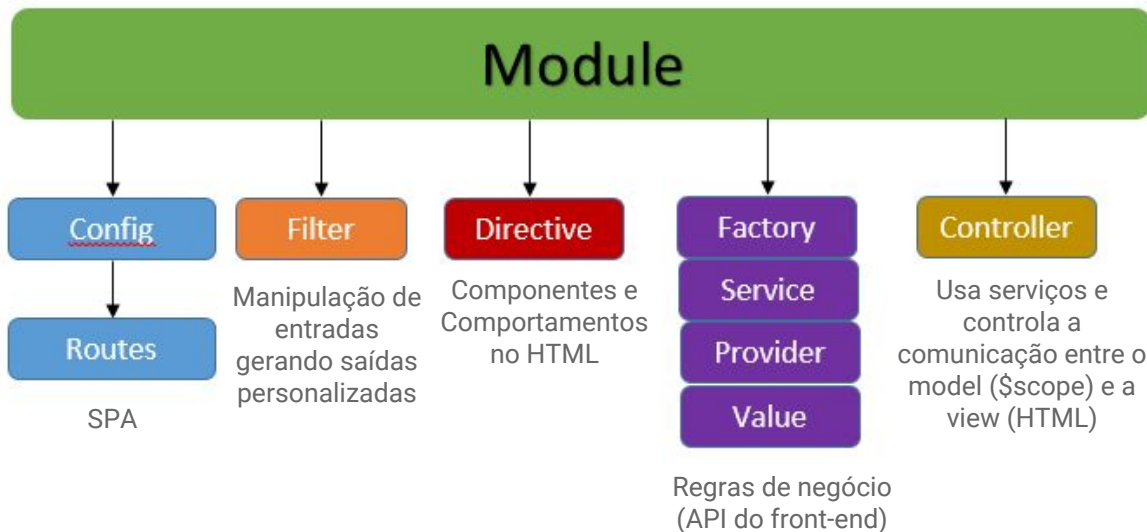
AngularJS - Módulos

Desenvolvimento Paralelo





AngularJS - Módulos

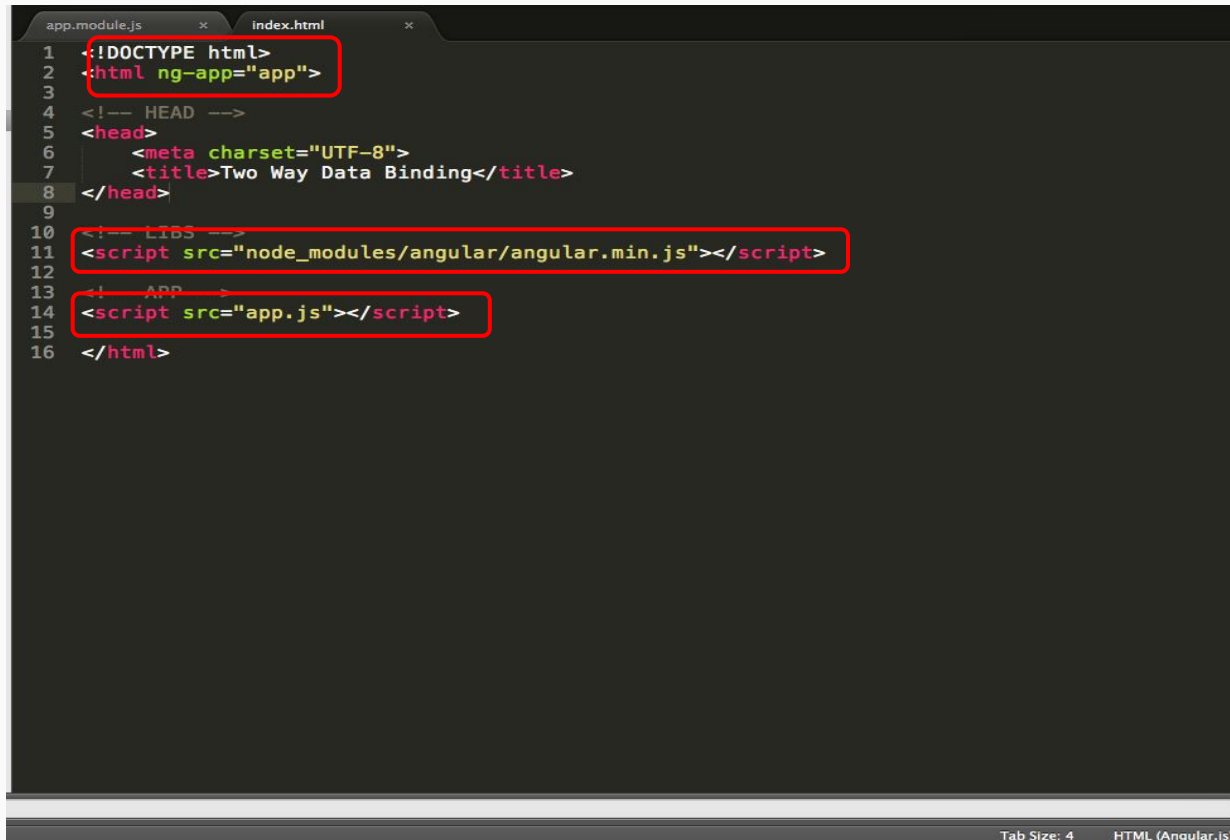




AngularJS - SETUP

- Criar um diretório para o app
- Criar o *index.html*
- Baixar a lib *angular.js*
 - <https://angularjs.org>
 - <https://github.com/angular/angular.js>
 - **npm** install angularjs
- Incluir a lib *angular.js* no *index.html*
- Criar o módulo principal
- Informar o módulo principal (ng-app) no *index.html*

AngularJS - SETUP



```
1  <!DOCTYPE html>
2  <html ng-app="app">
3
4  <!-- HEAD -->
5  <head>
6    <meta charset="UTF-8">
7    <title>Two Way Data Binding</title>
8  </head>
9
10 <!-- LIBS -->
11 <script src="node_modules/angular/angular.min.js"></script>
12
13 <!-- APP -->
14 <script src="app.js"></script>
15
16 </html>
```

Tab Size: 4 HTML (Angular.js)

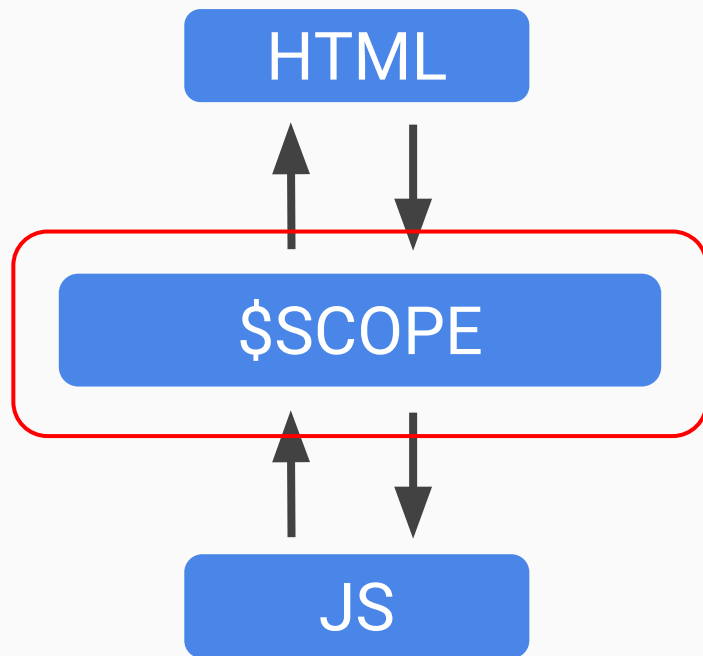
AngularJS - SETUP

```
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

```
index.html
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>
```

Região onde os dados do \$scope do AppCtrl podem ser acessados via "{{ }}"

AngularJS - Two Way Data Binding

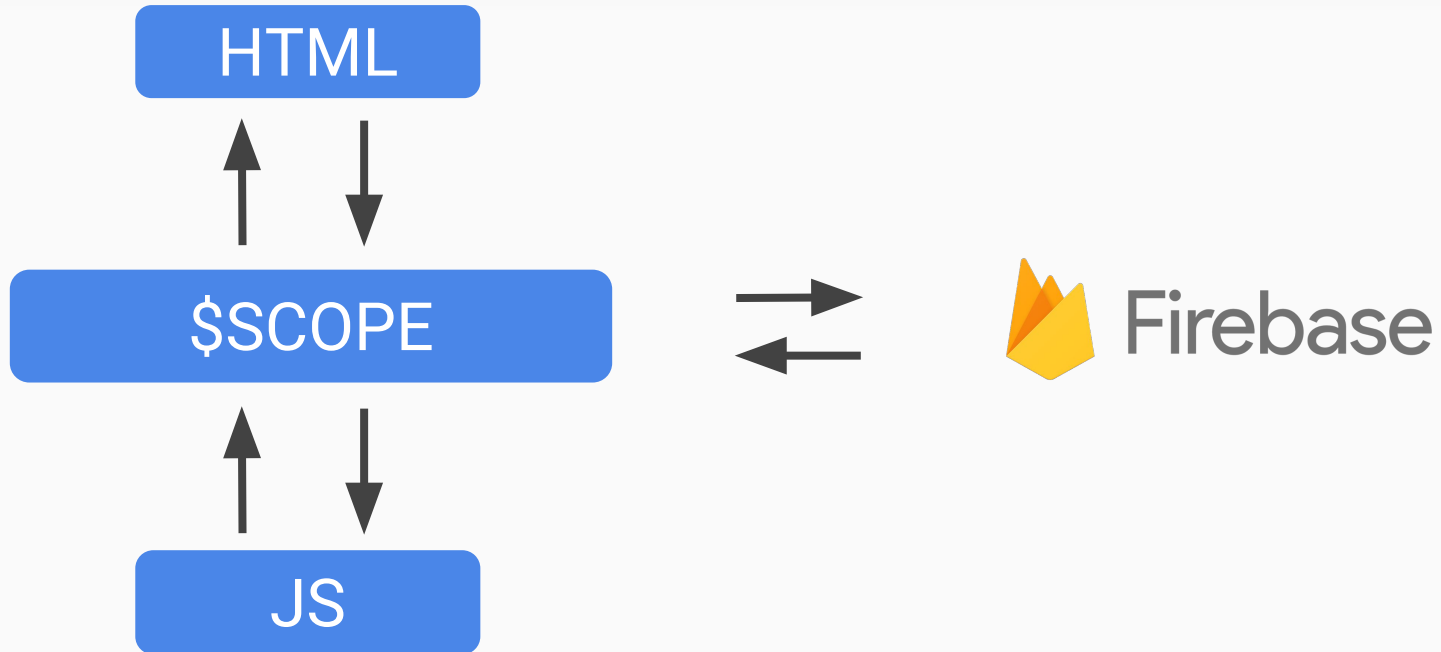


DEMO

Three Way Data Binding



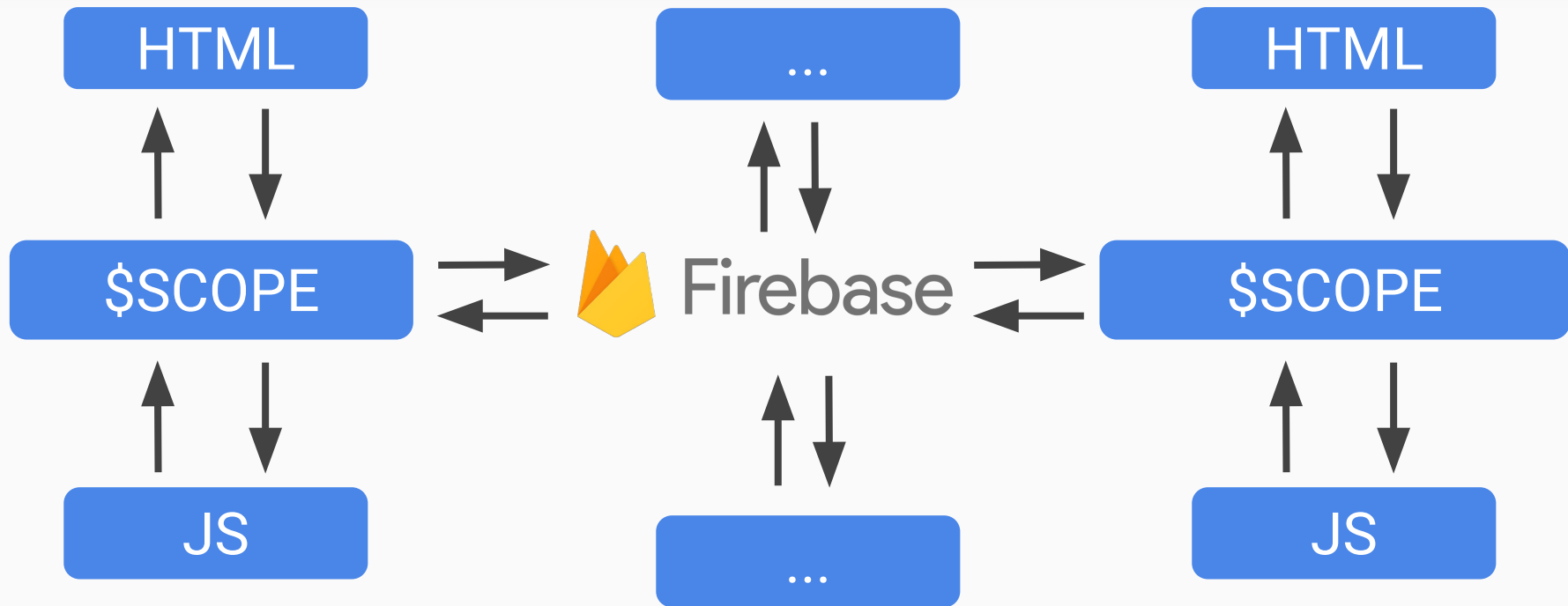
Firebase



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" (Go to documentation) next to 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" (Create a project) is centered on the screen. Inside the dialog, there's a form with two fields: "Nome do projeto" (Project name) with the text "myApp" and "País/região" (Country/region) with a dropdown menu showing "Brasil". Below the form, there's a paragraph of text in Portuguese explaining that Firebase Analytics data is shared with other Google products and that users can control this in their settings. At the bottom of the dialog, there are two buttons: "CANCELAR" (Cancel) and "CRIAR PROJETO" (Create project). In the background, the console shows a "Bem-vindo ao Firebase" (Welcome to Firebase) message and a list of projects, including one named "congrApp".

Firebase Ir para a documentação

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

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


IMPORTAR PROJETO DO GOOGLE

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 - 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 of 24, the second has an age of 20, and the third has an age of 15. The interface is in Portuguese, with a header bar containing the Firebase logo, the app name 'myApp', and a link to documentation.

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](#)

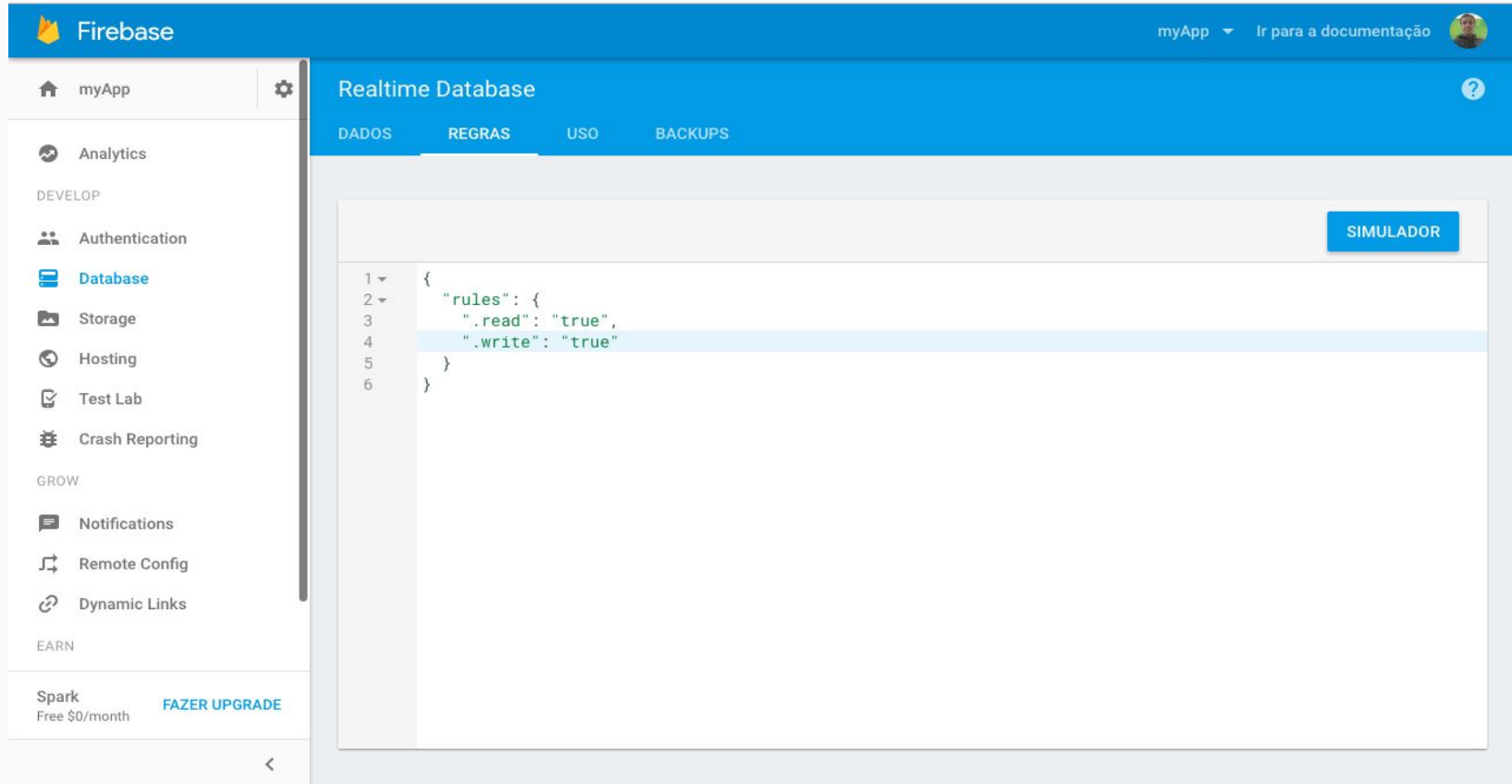
Realtime Database Header:

- myApp
- Ir para a documentação
- Realtime Database
- Tabs: DADOS, REGRAS, USO, BACKUPS

Database Structure (JSON Tree):

```
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 displays 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 includes tabs for 'DADOS', 'REGRAS' (selected), 'USO', and 'BACKUPS'. A 'SIMULADOR' button is located in the top right of the main area. The 'REGRAS' tab shows a code editor with the following JSON rules:

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

At the bottom left, the 'Spark' section indicates 'Free \$0/month' and a 'FAZER UPGRADE' link.

SETUP



Firebase

- Inserir a lib ***firebase.js*** no ***index.html***
- Inserir o ***script de conexão*** do web-app com o firebase-app

Setup

The screenshot displays the Firebase console interface. At the top, the header bar includes the Firebase logo, the text 'myApp', a dropdown arrow, a link to 'Ir para a documentação', and a user profile icon. The left sidebar contains a list of navigation items: 'myApp' (selected), 'Analytics', a 'DEVELOP' section with 'Authentication', 'Database', 'Storage', 'Hosting', 'Test Lab', and 'Crash Reporting', a 'GROW' section with 'Notifications', 'Remote Config', and 'Dynamic Links', and an 'EARN' section with 'Spark' (Free \$0/month) and a 'FAZER UPGRADE' link. The main content area is titled 'Overview' and features a welcome message 'Bem-vindo ao Firebase! Comece aqui.' Below this, there are three large circular buttons: a blue one for 'iOS', a green one for 'Android', and a purple one for 'Web' (containing a code icon). The 'Web' button is highlighted with a red rounded rectangle. Below these buttons, the text 'Adicionar o Firebase ao seu aplicativo iOS', 'Adicionar o Firebase ao seu aplicativo Android', and 'Adicionar o Firebase ao seu app da Web' are displayed. At the bottom, there is a section titled 'Descubra o Firebase' with three illustrative images: a person working on a laptop, a person with a lanyard and badge, and server racks.

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

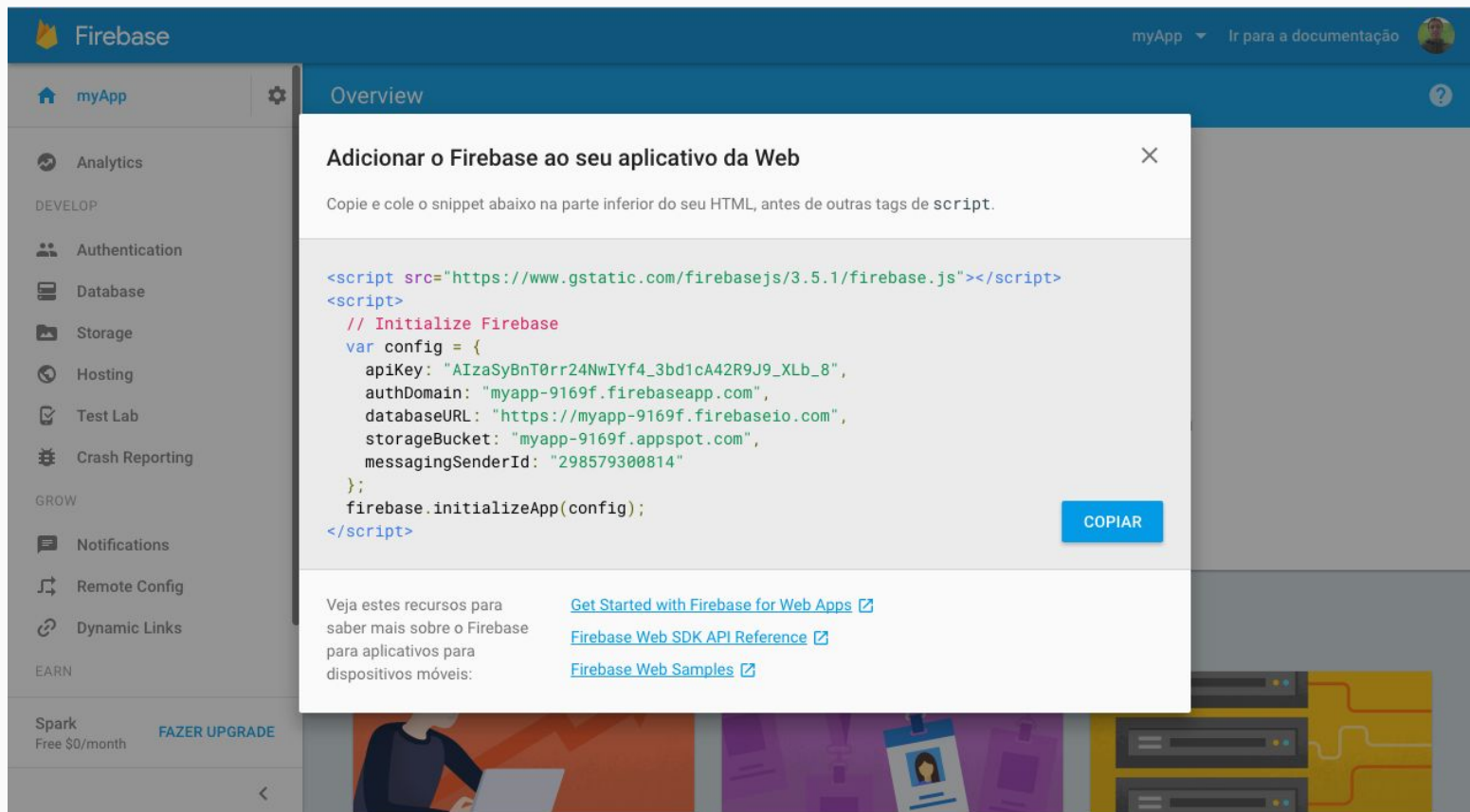
</>

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.

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>
```

[Get Started with Firebase for Web Apps](#)

[Firebase Web SDK API Reference](#)

[Firebase Web Samples](#)

COPIAR

SETUP



Firebase

- Baixar o módulo do firebase (angular-fire.js)
 - Github
 - NPM
 - ...
- Inserir o ***angular-fire.js*** no ***index.html***
- Inserir o módulo ***angular-fire*** no módulo ***app***

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   <h1>USERS</h1>
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
```

Firebase + Angular Setup

```
index.html  x  app.js  x
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

FIREBASE - DB

Authentication - Email and Password

myApp

Analytics

DEVELOP

Authentication

Database

Storage

Hosting

Test Lab

Crash Reporting

GROW

Notifications

Remote Config

Dynamic Links

EARN

Spark
Free \$0/month

FAZER UPGRADE

Authentication






USUÁRIOS

MÉTODO DE LOGIN

MODELOS DE E-MAIL

CONFIGURAÇÃO DA WEB

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



Firestore

Criando usuário com email e senha

DEMO

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

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


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' button. 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

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)

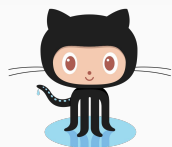
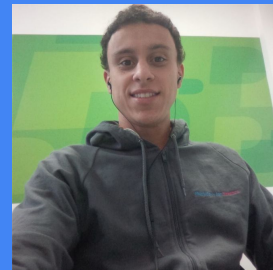
Firebase - Referências

<https://firebase.google.com>

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

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

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



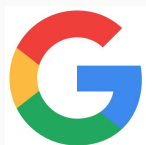
/iagobarboza (exemplos e template)



/iagobs



/iagobarboza



iagobarboza@gmail.com