

o2-auth-fs Angular4 tool to authenticate users by Firebase through email, Google, Facebook, GitHub and Twitter login

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o2-auth-fs is a tool library for authenticating users by Firebase service by Angular4.

Video Explanation

<https://youtu.be/>

Overview

- *o2-auth-fs* is a tool for using Firebase authentication service by using Angular4
- Main functions
 - Signup (using Firebase authentication service)
 - Login
 - Email
 - Google
 - Facebook
 - Twitter
 - GitHub
 - Logout

O2AuthFsProject x

localhost:4200/signup

Home Sign Up Login

Email

Password

Confirm

Register

O2AuthFsProject x

localhost:4200/signin

Home Sign Up Login

Email

Password

Sign In

Facebook Google GitHub Twitter

Prerequisite

- Node.js
- TypeScript2
- Angular4

- Firebase
- bootstrap
- font-awesome

Installation

To install this library, run:

```
$ npm install o2-auth-fs --save
```

Step by Step Installation for Angular-CLI

Install Angular-CLI

```
$ npm install -g @angular/cli
```

Create New Project

```
$ ng new demo-project (Your project name)
$ cd demo-project
```

Check Your Program

If you start local server as follows, you can get the first page in your browser by accessing **<http://localhost:4200>**.

```
$ ng serve
```

- *First Page*



Welcome to app!



Here are some links to help you start:

- [Tour of Heroes](#)
- [CLI Documentation](#)
- [Angular blog](#)

Stop Local Server

Input **Ctrl+C** and **y+Return** to stop the local server.

Install o2-auth-fs

```
$ npm install o2-auth-fs --save
```

Install firebase

```
$ npm install firebase --save
```

Install bootstrap

```
$ npm install bootstrap --save
```

Modify **.angular-cli.json**

You will find **.angular-cli.json** in the project root directory.

Add **bootstrap.min.css** as follows.

```
"apps": [  
  {  
    "styles": [  
      // Add Start -----  
      "../node_modules/bootstrap/dist/css/bootstrap.min.css",  
      // Add End -----  
      "styles.css"  
    ],  
  }  
],
```

Get Firebase config data

Of course you need to have Firebase account and your own project. If you don't have the account, visit the following page in advance and make your own project.

<https://www.firebase.com/login/>

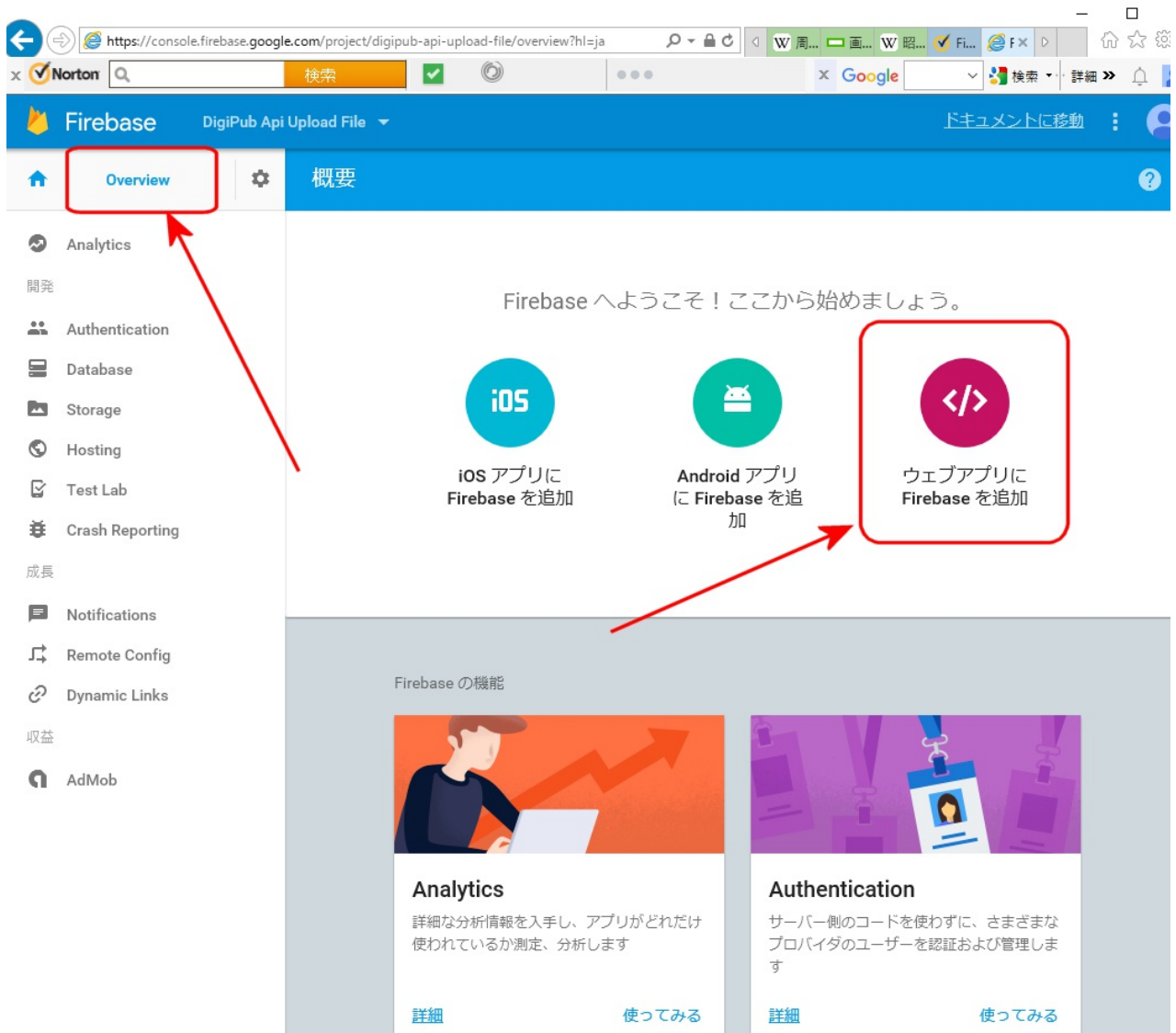
You need to get Firebase config data from your own project page. This url is as follows.

<https://console.firebase.google.com/project/your-project-name/overview>

You need the following parameters

- apiKey
- authDomain
- databaseURL
- projectId
- storageBucket
- messagingSenderId

In "Overview" page, click Web Application icon.



Then those parameters above will be shown. Copy them.



Modify environment.ts

Change directory to "src/app/environments".

```
$ cd src/app/environments
```

You will find **environment.ts** and **environment.prod.ts**.

Modify these files as follows. In **firebaseConfig**, paste the data above.

```
export const environment = {
  production: true,
  // Add Start -----
  firebase: {
    apiKey: 'XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX',
    authDomain: 'XXXXXXXXXXXXXXXXXXXXXX.firebaseio.com',
    databaseURL: 'https://XXXXXXXXXXXXXXXXXXXX.firebaseio.com',
    projectId: 'XXXXXXXXXXXXXXXXXXXX',
    storageBucket: 'XXXXXXXXXXXXXXXXXXXX.appspot.com',
    messagingSenderId: 'XXXXXXXXXXXXXXXXXXXX'
  }
  // Add End -----
};
```

Modify app.module.ts

Change directory to "src/app".

```
$ cd src/app
```

You will find **app.module.ts**.

Modify this file as follows. **AppRoutingModule** and **CoreModule** will be made later.

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';

import { AppComponent } from './app.component';

// Add Start -----
import { O2AuthFsModule } from 'o2-auth-fs';
import { AppRoutingModuleModule } from './app-routing.module';
import { CoreModule } from './core/core.module';
// Add End -----

@NgModule({
  declarations: [
    AppComponent
  ],
  imports: [
    BrowserModule,
    // Add Start -----
    AppRoutingModuleModule,
    CoreModule,
    O2AuthFsModule.forRoot()
    // Add End -----
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

Modify app.component.ts

In the same directory, you will find **app.component.ts** . In this file, modify as follows.

```
import { Component, OnInit } from '@angular/core';
// Add Start -----
import { environment } from './../../environments/environment';
import * as firebase from 'firebase';
// Add End -----

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent implements OnInit {
  title = 'app-root';
  // Add Start -----
  loadedFeature = 'home';
  ngOnInit() {
    firebase.initializeApp(environment.firebase);
  }
  onNavigate(feature: string) {
    this.loadedFeature = feature;
  }
}
```

```
}  
// Add End -----  
}
```

Add app-routing.module.ts

You had better independent modules for future. So add **app.routing.module.ts** in the project root directory. You need add **flat** option as follows.

```
$ ng generate module app-routing --flat
```

Add Core Module

You maybe need home page and header. They had better be included in **core module** which is almost always resided. At first you need add **core module** as foloows.

```
$ ng generate module core
```

Add Header Component

Next add **header component** in core module as folows.

```
$ ng generate component core/header
```

Add Home Component

Next add **home component** in core module as folows.

```
$ ng generate component core/home
```

Version

- o2-auth-fs : 0.1.3
- Angular : 4.2.4
- TypeScript : 2.3.3
- @angular/cli : 1.3.2
- bootstrap : 3.3.7
- firebase : 4.4.0
- font-awesome : 4.7.0

Reference

- "Firebase Authentication", Google,
<https://firebase.google.com/docs/auth/?hl=en>
- "Create a Full Angular Authentication System with Firebase",2017/1/16, by Gary Simon
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- "Angular アプリケーションプログラミング",2017/8/17,by 山田祥寛,
https://www.amazon.co.jp/Angular%E3%82%A2%E3%83%97%E3%83%AA%E3%82%B1%E%E5%B1%B1%E7%94%B0-%E7%A5%A5%E5%AF%9B-ebook/dp/B074M54GM5/ref=sr_1_2?ie=UTF8&qid=1507088812&sr=8-2&keywords=angular+%E3%82%A2%E3%83%97%E3%83%AA%E3%82%B1%E3%83%BC
- "Angular 4 (formerly Angular 2) - The Complete Guide",by Maximilian Schwarzmüller, udemy,
<https://www.udemy.com/the-complete-guide-to-angular-2/learn/v4/content>
- "The Complete Angular Course: Beginner to Advanced",by Mosh Hamedani, udemy,
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Change Log

- 2017.10.2 version 0.1 uploaded

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