o2-auth-fb-service Authentication Service by Firebase for Angular5

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o2-auth-fb-service is a library for authenticating users by Firebase service by Angular5.

Video Explanation https://youtu.be/

Overview

o2-auth-fb-service is a tool for using Firebase authentication service by using Angular5

Main functions

- Signup (using Firebase authentication service)
- Login
    - Email
    - Google
    - Facebook
    - Twitter
    - GitHub
- Logout

Prerequisite

- Node.js
- TypeScript2
- Angular5
- Firebase
- AngularFire2

Installation

To install this library, run:

```
$ npm install o2-auth-fb-service --save
```

Step by Step Installation of a demo program based on Angular/CLI

Install Demo Program

Make your some directory for testing and change into the directory.

```
$ md test
$ cd test
```

Next run `git clone` like this.

```
$ git clone https://github.com/Ohtsu/o2-auth-fb-service-demo.git
$ cd o2-auth-fb-service-demo
$ npm install
```

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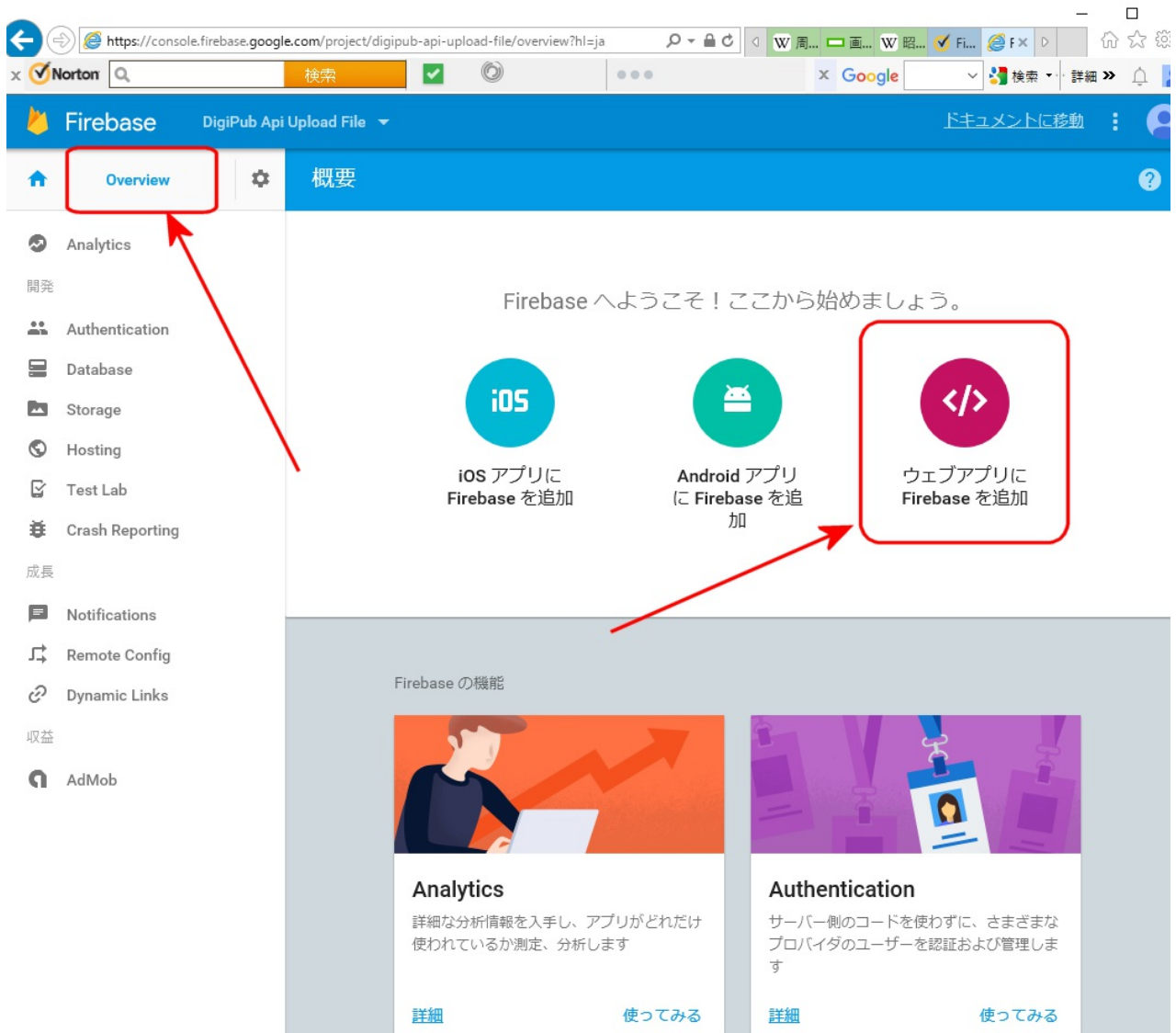
https://www.firebase.com/login/

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
- 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".
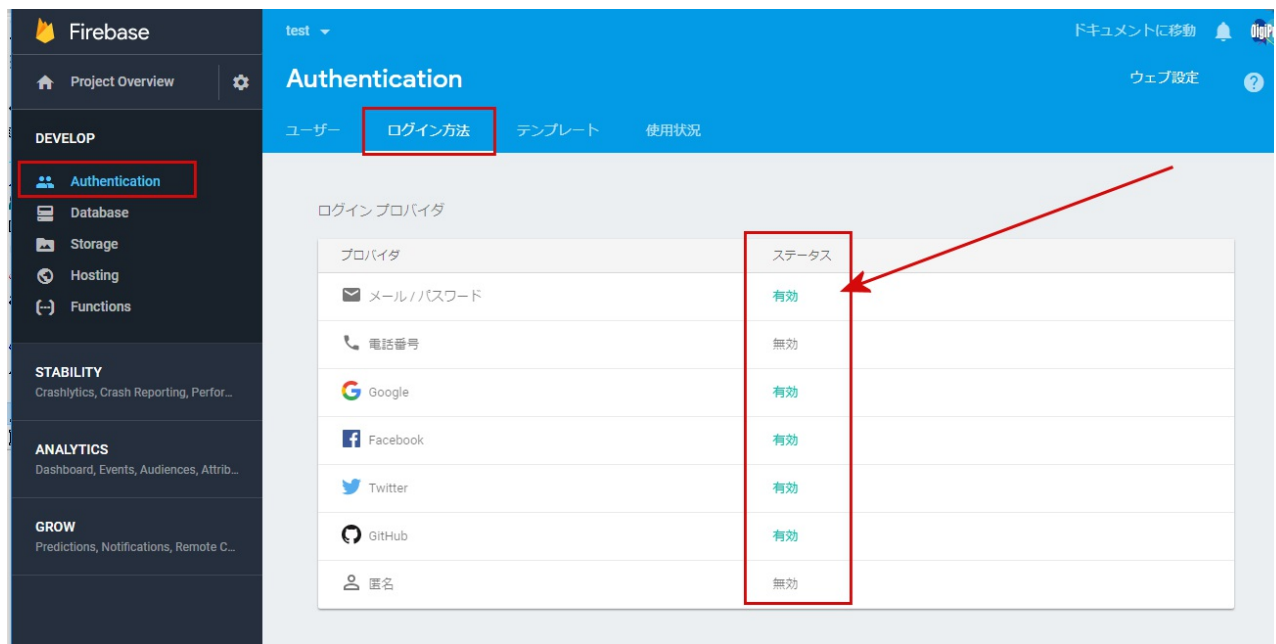
```
$ cd src/app/environments
```

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: '"xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx',
    authDomain: 'xxxxxxxxxxxxxxxx.firebaseapp.com',
    databaseURL: 'https://xxxxxxxxxxxxxxxx.firebaseio.com',
    projectId: 'xxxxxxxxxxxx',
    storageBucket: 'xxxxxxxxxxxx.appspot.com',
    messagingSenderId: 'xxxxxxxxxxxxxxxxxxx'
  }
  // Add End ---------------------------------------
};
```

Add Login method in Firebase

If you want to use the 3rd party authentications such as Google, Facebook, Twitter and GitHub, you need add login methods in Firebase Authentication page.
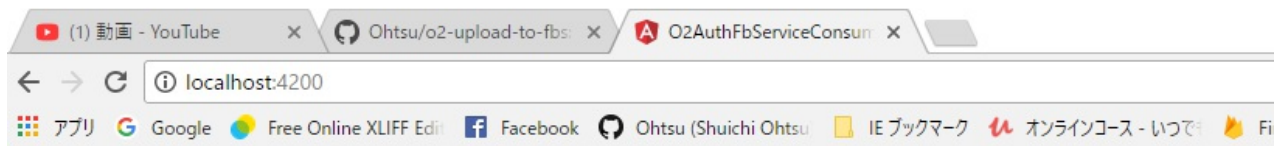Set the target login method *enable* in the status.

Start demo program

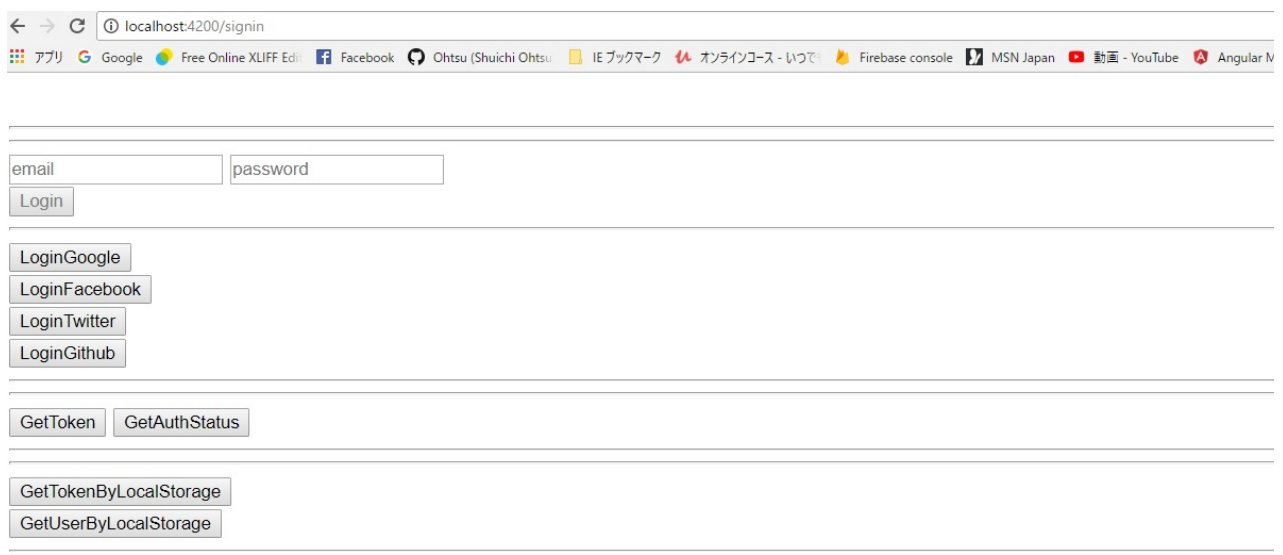If you start local server as follows, you can get the home page in your browser by accessing **http://localhost:4200**.
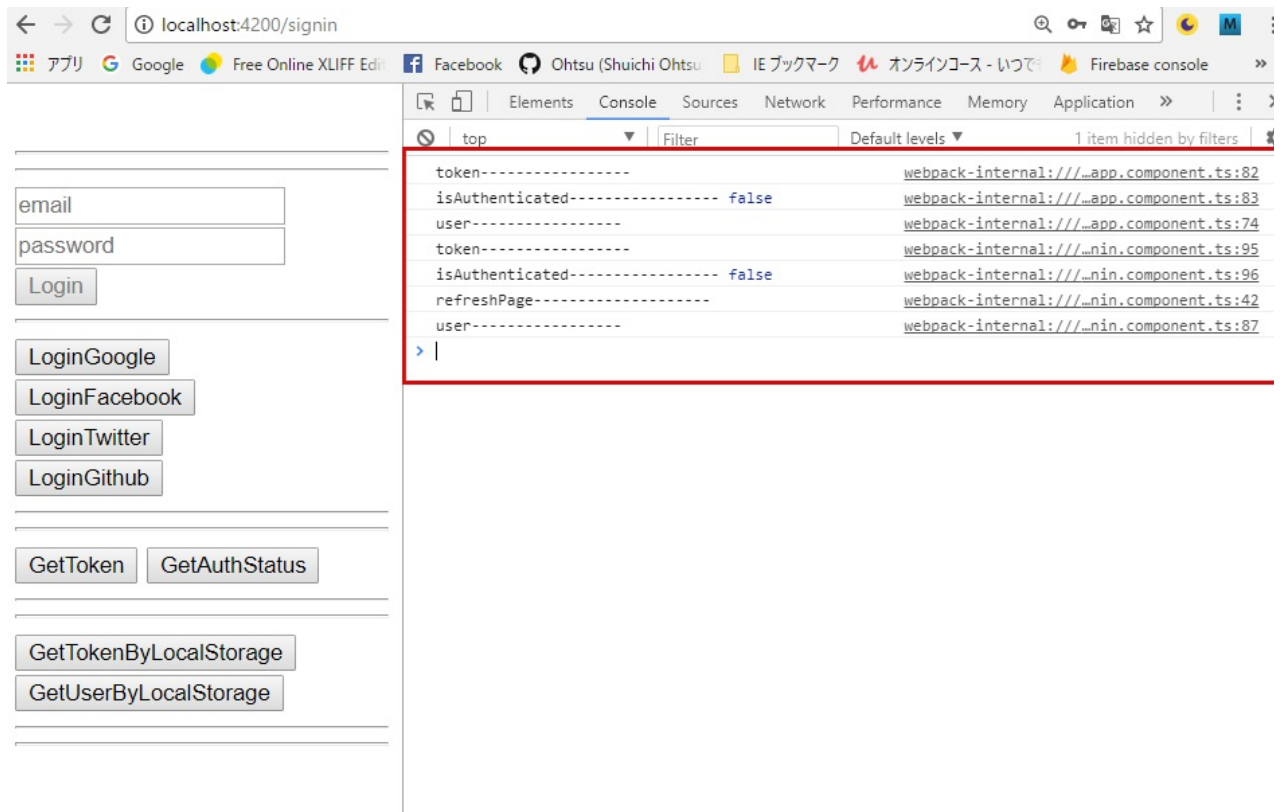
```
$ ng serve
```


Try change the page by accessing by accessing **http://localhost:4200/signup**. You will find the following page.
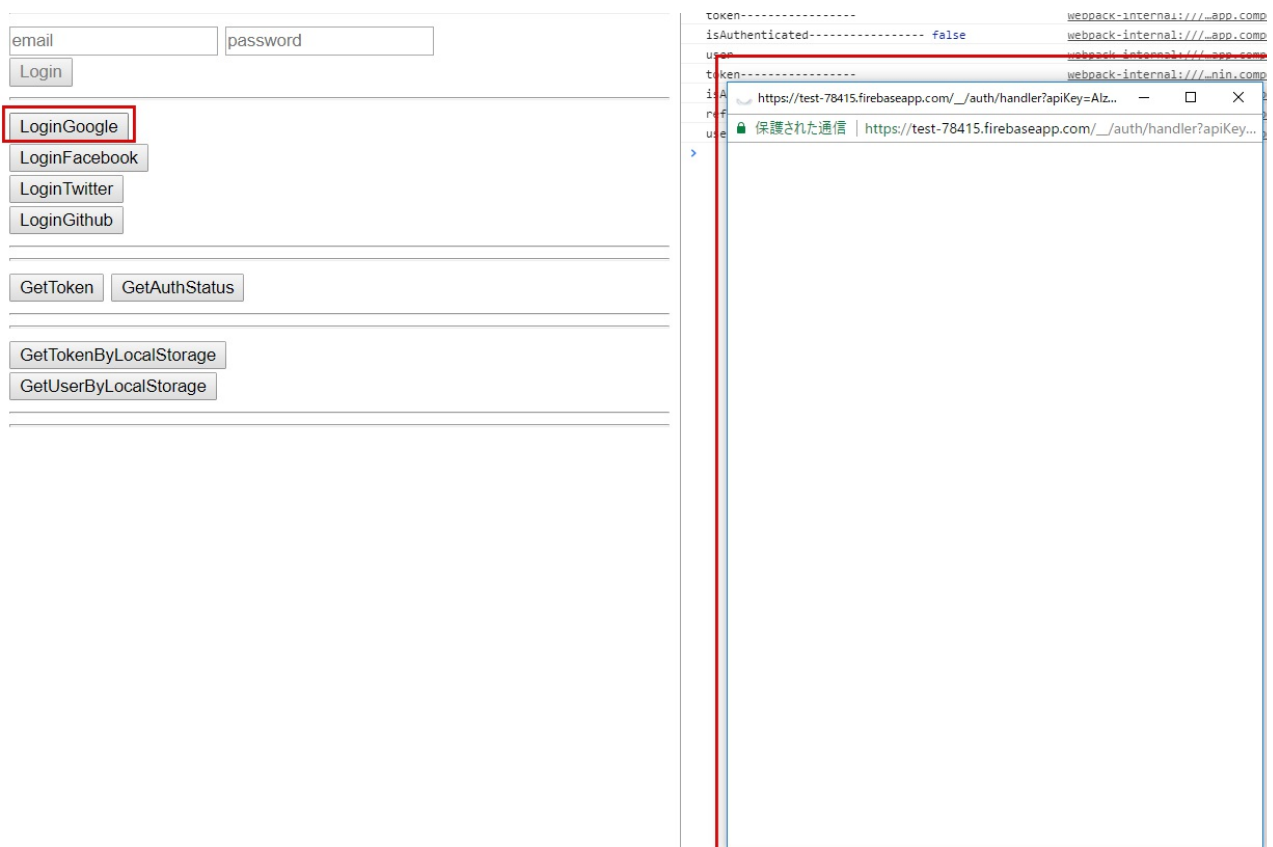
Next change the page by accessing by accessing **http://localhost:4200/signin**. You will find the following page.
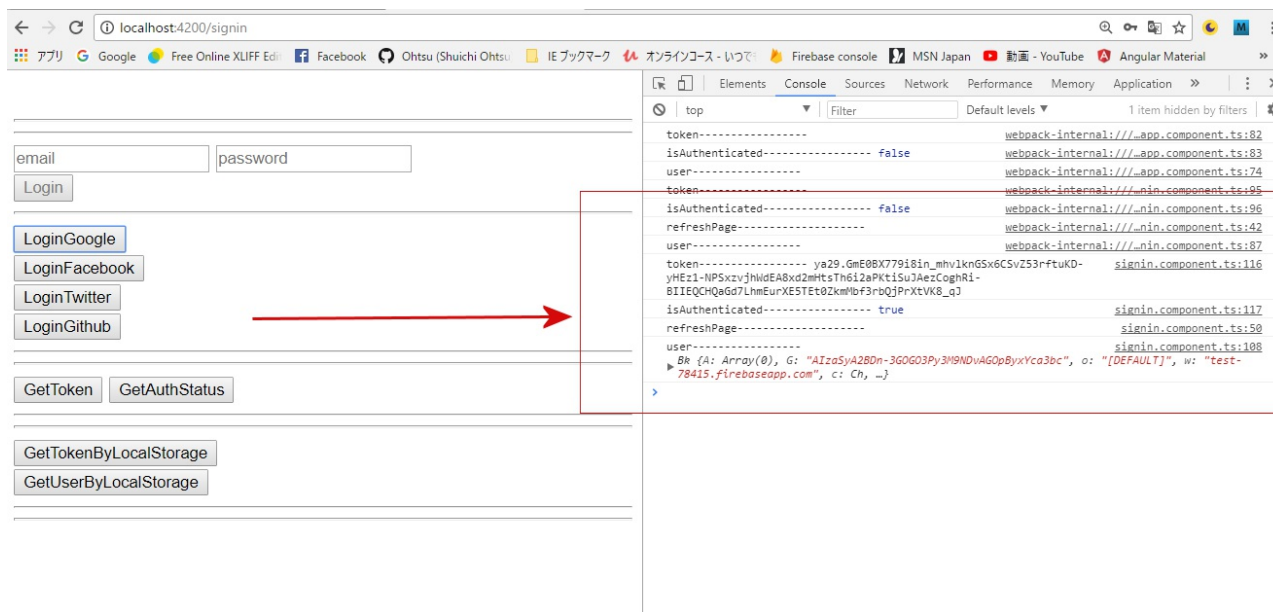

In this page, open the developer tool (type **control** + **shift** + **i** in Chrome) and select **Console** tab. If you have not logged in yet, you will find **is Authenticated ---- false**.

Try to click **Login Google** button (Of course you need to enable Google login method), you will find **Google Login Popup Window**.

If you succeed in the authentication, you will find the messages such as **is Authenticated ---- true**, **token ---**, **user ---** and so on.

Version

- *o2-auth-fb-service* : 0.4.3
- Angular : 5.0.0
- TypeScript : 2.4.2
- @angular/cli : 1.5.0
- firebase : 4.8.0
- angularfire2: 5.0.0-rc.4

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,
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- "Angular 4 (formerly Angular 2) - The Complete Guide",by Maximilian Schwarzmüller, udemy,
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- "The Complete Angular Course: Beginner to Advanced",by Mosh Hamedani, udemy,
  https://www.udemy.com/the-complete-angular-master-class/learn/v4/content

- "Build Enterprise Applications with Angular 2 (and Angular 4)",by Mosh Hamedani, udemy,
  https://www.udemy.com/angular2-advanced/learn/v4/content

- "Learn Angular 4 from Scratch",by Gary Simon, udemy, https://www.udemy.com/learn-angular-

from-scratch/learn/v4/content

Change Log

- 2017.12.31 version 0.4.3 uploaded

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