

How to integrate Firebase with Angular 4

Firebase is a mobile and web application development platform developed by **Google**. We can build our apps very fast, without making complex back-end system. It helps to scale automatically, for even the largest apps. In this [Angular 4](#) Firebase tutorial, we're gonna go through the steps to integrate **Firebase** into **Angular 4 App** with AngularFire2 4.0.

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I. Technology

- Angular 4
- AngularFire2 4.0

II. Step by Step

1. Set up the Firebase Project

Go to [Firebase Console](#), login with your Google Account, then click on **Add Project**.

Enter **Project name**, select **Country/Region**:

Create a project

Project name

JavaSampleApproachAngular4

Project ID ⓘ

javasampleapproach-angular4

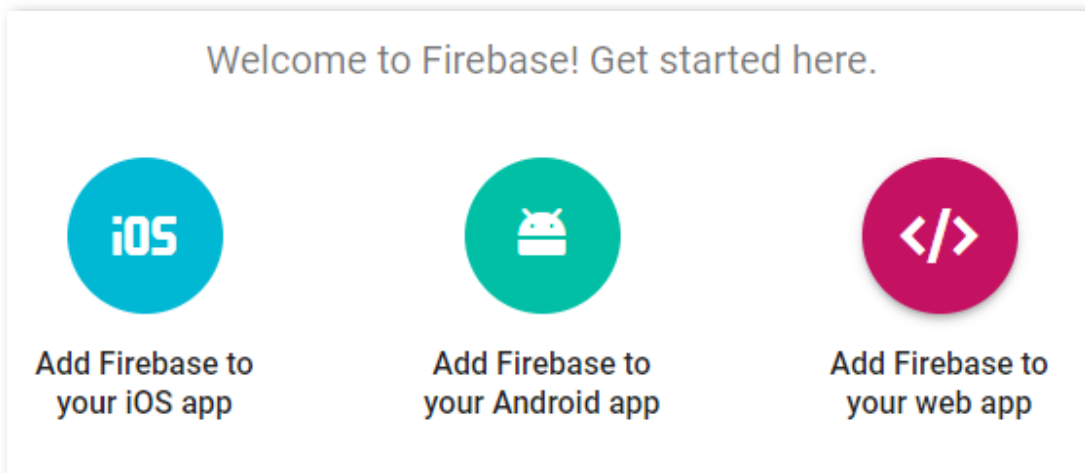
Country/region ⓘ

United States ▼

By default, your Analytics data will enhance other Firebase features and Google products. You can control how your analytics data is shared in your settings at anytime. [Learn more](#)

CANCEL CREATE PROJECT

Press **CREATE PROJECT**, browser turns into:



Click on **Add Firebase to your Web App**, a Popup will be shown:

Add Firebase to your web app

Copy and paste the snippet below at the bottom of your HTML, before other `script` tags.

```
<script src="https://www.gstatic.com/firebasejs/4.3.0/firebase.js"></script>
<script>
  // Initialize Firebase
  var config = {
    apiKey: "AIzaSyAqWm",
    authDomain: "javasampleapproach-angular4.firebaseio.com",
    databaseURL: "https://javasampleapproach-angular4.firebaseio.com",
    projectId: "javasampleapproach-angular4",
    storageBucket: "javasampleapproach-angular4.appspot.com",
    messagingSenderId: "5472"
  };
  firebase.initializeApp(config);
</script>
```

Save the information for later usage.

Choose **Database** in the left (list of Firebase features) -> Tab **RULES**, then change **.read** and **.write** values to **true**:

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

2. Install AngularFire2

Before installing AngularFire2, make sure that we have latest version of **Angular-cli** installed. The lowest compatible version is 1.x.x-beta.14. We also need **Typings**, and **TypeScript**.

So, if you don't have these things, try to install them:

```
npm install -g @angular/cli@latest
# or install locally
npm install @angular/cli --save-dev

npm install -g typings
npm install -g typescript
```

2.1 Create Angular project

```
ng new <project-name>
```

```
cd <project-name>
```

2.2 Install AngularFire2 and Firebase

```
npm install angularfire2 firebase --save
```

3. Use AngularFire2 in Angular Project

3.1 Add Firebase config to environments variable

Open `/src/environments/environment.ts`, add your Firebase configuration that we have saved when Popup window was shown:

```
export const environment = {  
  production: false,  
  firebase: {  
    apiKey: 'xxx',  
    authDomain: 'javasampleapproach-angular4.firebaseio.com',  
    databaseURL: 'https://javasampleapproach-angular4.firebaseio.com',  
    projectId: 'javasampleapproach-angular4',  
    storageBucket: 'javasampleapproach-angular4.appspot.com',  
    messagingSenderId: 'xxx'  
  }  
};
```

3.2 Setup @NgModule

Open `/src/app/app.module.ts`, import `AngularFireModule` and other `AngularFire2` modules if necessary. Don't forget specify Firebase configuration with

`AngularFireModule.initializeApp(firebaseConfig):`

```
import {BrowserModule} from '@angular/platform-browser';  
import {NgModule} from '@angular/core';  
import {FormsModule} from '@angular/forms';  
import {AppComponent} from './app.component';  
  
import {AngularFireModule} from 'angularfire2';  
import {AngularFireDatabaseModule} from 'angularfire2/database';  
  
import {environment} from '../environments/environment';  
  
@NgModule({  
  declarations: [  
    AppComponent  
  ],  
  imports: [  
    BrowserModule,  
    FormsModule,  
    AngularFireModule.initializeApp(environment.firebase),  
    AngularFireDatabaseModule
```

```
    AngularFireDatabaseModule, // for database
  ],
  providers: [],
  bootstrap: [AppComponent]
})

export class AppModule {}
```

3.3 Use AngularFire module in Angular component

Open `/src/app/app.component.ts`:

```
import {Component} from '@angular/core';

import {AngularFireDatabase, FirebaseListObservable} from 'angularfire2/database';

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css'],
  providers: [AngularFireDatabase]
})

export class AppComponent {
  title = 'JavaSampleApproach';
  description = 'Angular4-Firebase Demo';

  itemValue = '';
  items: FirebaseListObservable<any[]>;

  constructor(db: AngularFireDatabase) {
    this.items = db.list('/items');
  }

  onSubmit() {
    this.items.push({content: this.itemValue});
    this.itemValue = '';
  }
}
```

`/src/app/app.component.html`:

```
<div class="container-fluid">
  <div style="color: blue;">
    <h1>{{title}}</h1>
    <h3>{{description}}</h3>
  </div>

  <div style="width: 300px;">
    <form (ngSubmit)="onSubmit()">
      <div class="form-group">
```

```

<label for="item">Item</label> <input type="text"
  class="form-control" placeholder="Enter content..." id="item"
  required [(ngModel)]="itemValue" name="item">
</div>

<div class="btn-group">
  <button type="submit" class="btn btn-success">Submit</button>
</div>
</form>
</div>

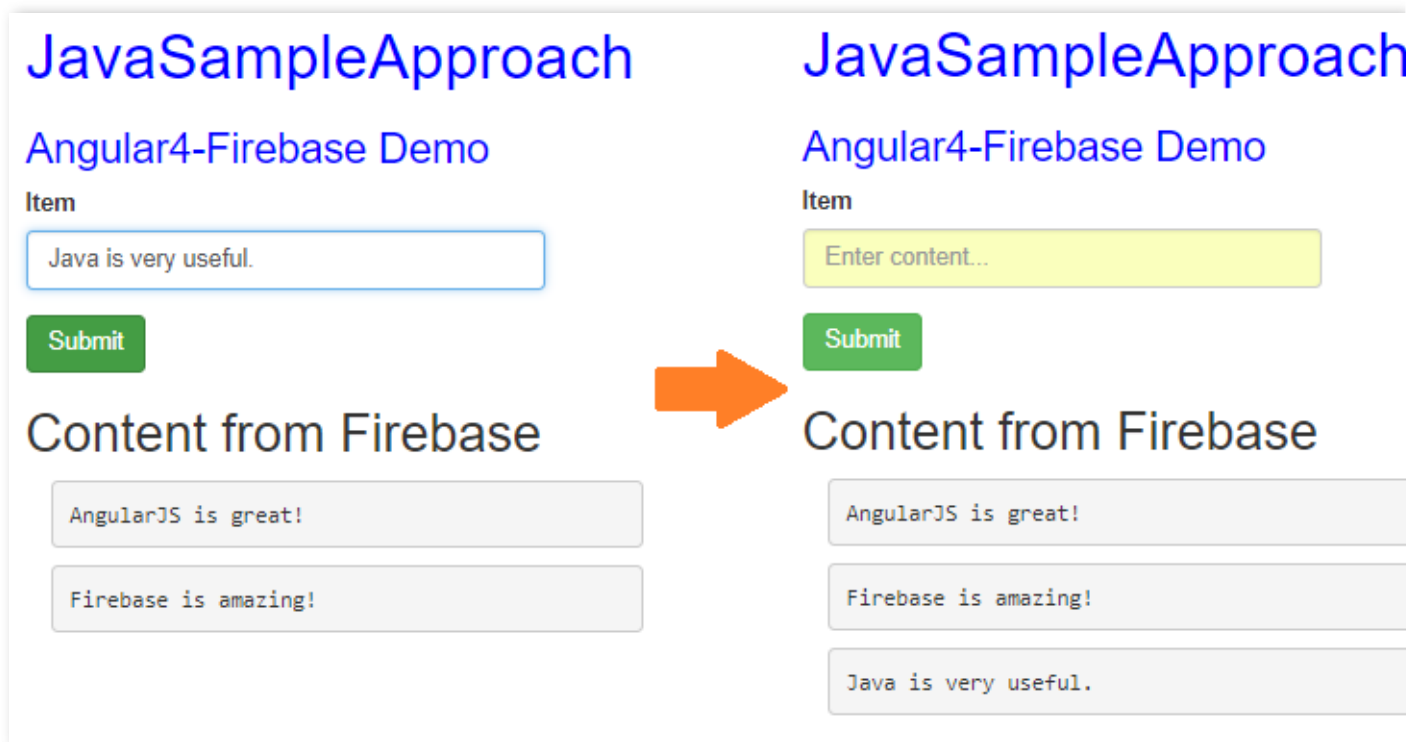
<h2>Content from Firebase</h2>
<div class="col-md-3">
  <pre *ngFor="let item of items | async">{{item.content}}</pre>
</div>
</div>

```

III. Check Result

– Open browser with url <http://localhost:4200/> , enter Item content.

Item data displays immediately:



– Firebase Console Database:



IV. Source Code

[Angular4Firebase](#) By [grokonez](#) | August 31, 2017.

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2 thoughts on “How to integrate Firebase with Angular 4”

**Guillermo**

December 16, 2017 at 2:55 pm

change: import {AngularFireDatabase, FirebaseListObservable} from 'angularfire2/database';
to: import {AngularFireDatabase, AngularFireList} from 'angularfire2/database';

**JavaSampleApproach**

December 27, 2017 at 3:28 am

Hi Guillermo,

This tutorial uses AngularFire2 **V4**.

FirebaseListObservable is replaced by AngularFireList in AngularFire2 **V5**. We will post new tutorials for AngularFire2 **V5** in the future.

Regards,
JSA.

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We are passionate engineers in software development by Java Technology & Spring Framework. We believe that creating little good thing with specific orientation everyday can make great influence on the world someday.
