



# Firestore

Used with AngularFire

# Learning Objectives

Students can describe what Firebase is and what it offers.

Students demonstrate how to install and use AngularFire.

# Resources

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

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

<https://www.firebase.com/docs/web/libraries/angular/guide/intro-to-angularfire.html>

# What is Firebase?

Firebase is a powerful BaaS(Back-end as a Service).

It provides a NoSQL database, 3 way binding(More to come on that), built-in user authentication, and hosting.

It is awesome because you can use it as your whole back-end and never have to worry about back-end code, spinning a server, or setting up a database.

It also scales with your app automatically.

# What is AngularFire?

AngularFire is the officially supported AngularJS binding for Firebase.

The combination of Angular and Firebase provides a three-way data binding between your HTML, your JavaScript, and the Firebase database.

# Getting Started

Sign up for a free Firebase [account](#)

Install AngularFire by adding the bindings. You should have these three:

```
1. <!-- Angular -->
2. <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.3.15/angular.min.js"></script>
3.
4. <!-- Firebase -->
5. <script src="https://cdn.firebase.com/js/client/2.2.4/firebase.js"></script>
6.
7. <!-- AngularFire -->
8. <script src="https://cdn.firebase.com/libs/angularfire/1.1.3/angularfire.min.js"></script>
```

# Getting Started - Continued

Inject the AngularFire dependency on your main module or app

```
1. var app = angular.module("sampleApp", ["firebase"]);
```

Then you are ready to go.

Just use the three services provided in AngularFire into a controller, factory, or service: `$firebaseObject`, `$firebaseArray` `$firebaseAuth`

```
1. app.controller("SampleController", ["$scope", "$firebaseArray",  
2.   function($scope, $firebaseArray) {  
3.     // ...  
4.   }  
5. ]);
```

# In-class Exercise

1. Get the chat room sample app from their tutorial page working either locally on your machine or on a JSFiddle

<https://www.firebase.com/docs/web/libraries/angular/guide/intro-to-angularfire.html>

2. Now make it work with your own instance of Firebase

[JSFiddle](#)



## In-class Exercise (continued)

3. Now add the ability for a user to specify their own username once and use it throughout the session.
4. Create a custom filter that will at least convert a smiley face :) to an emoticon.
5. Create a custom directive that will toggle the visibility of the username and message input text fields.