

# **Formation**

# **Mobile Hybride**

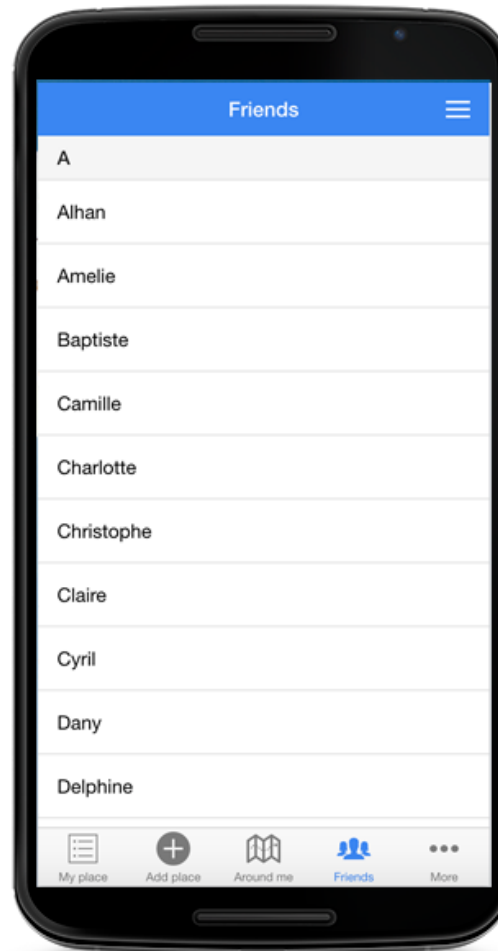
# **Day 3**

**Cordova, Ionic, Firebase**

# Agenda

1. Correction travaux pratique
2. Rappel sur les Filtres + Promesses
3. Firebase concept (BaaS)
4. AngularFire Authentification
5. Structure du projet
6. Exercice pratique: logout

# Objectif:



## Prototype « Ionic Places »

# Correction

\$ git checkout valid-7

A
Alhan
Amelie
Baptiste
Camille
Charlotte
Christophe
Claire

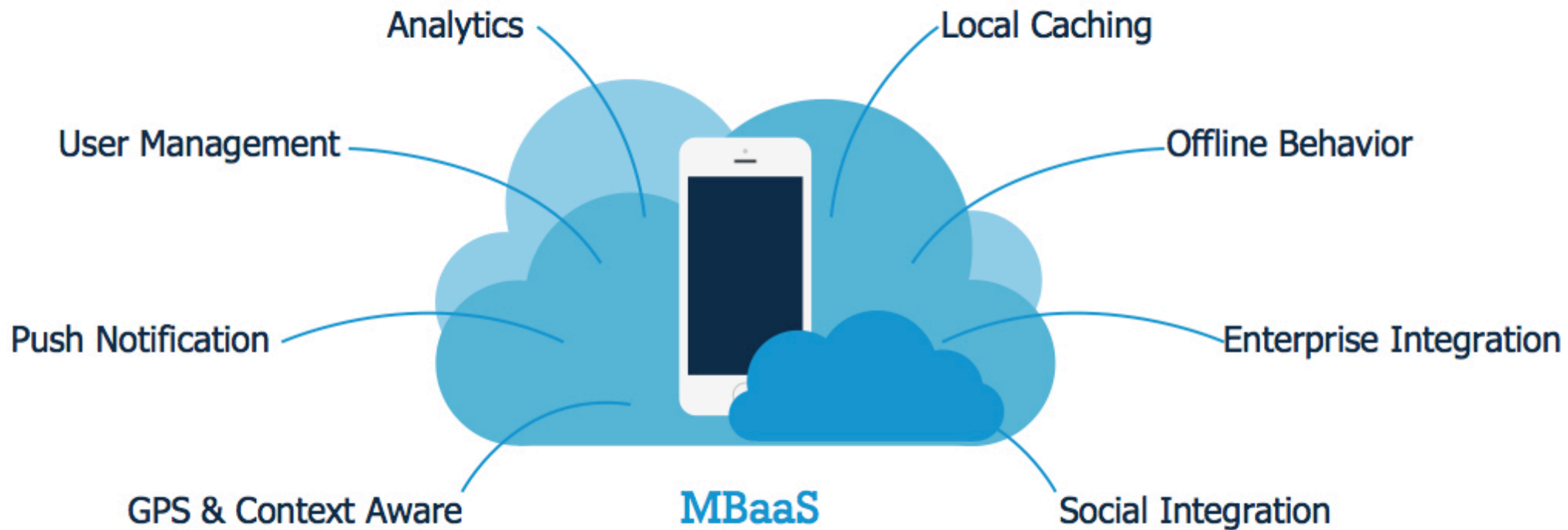
GroupBy: \$ git checkout valid-8

A
Alhan
Amelie
B
Baptiste
C
Camille

Filter: \$ git checkout valid-9

# BaaS (Backend as a Service)

# MBaaS



# Les intérêts

L'infrastructure backend c'est complexe



En tant qu'utilisateur, je veux :

- De la rapidité
- Un mode hors ligne
- Une disponibilité multi-plateformes
- Une authentification simplifié

# Deux services BaaS émergent

Produit développé par Facebook



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Produit développé par Google







# Firebase est votre backend

Base de données



Authentification



Sécurité



Hébergement

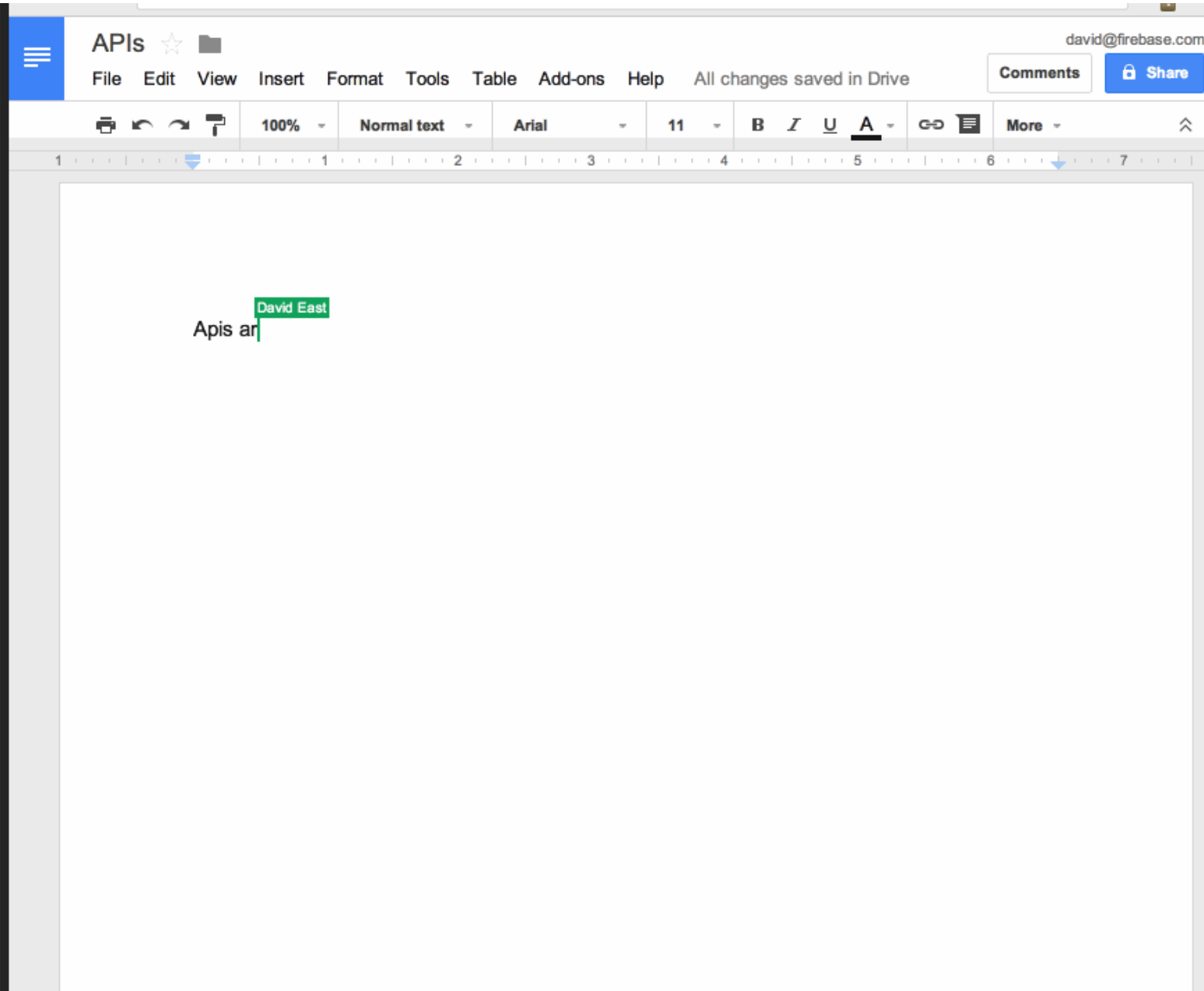
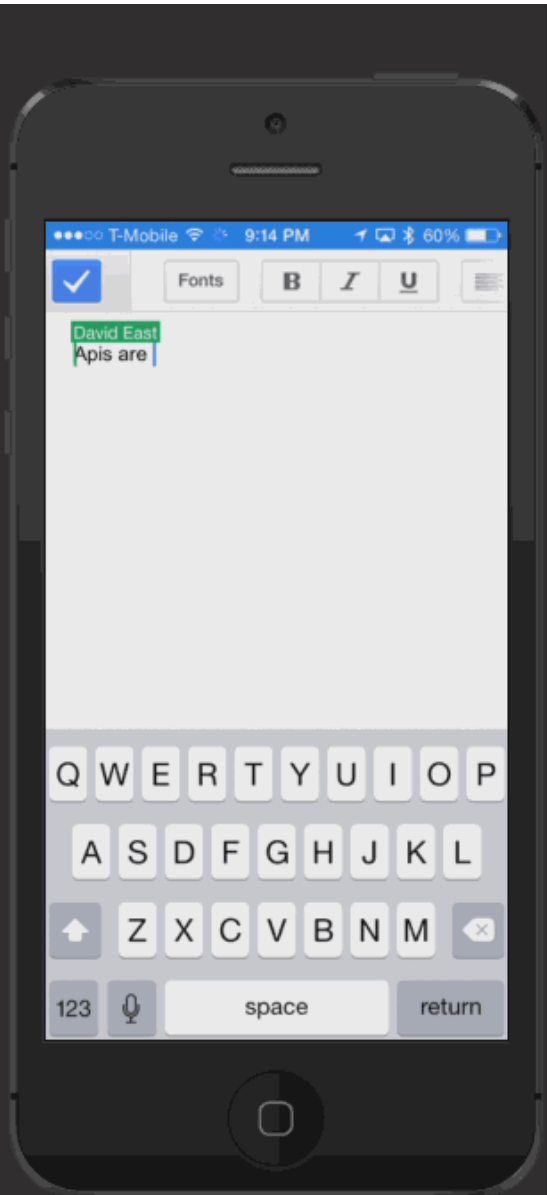




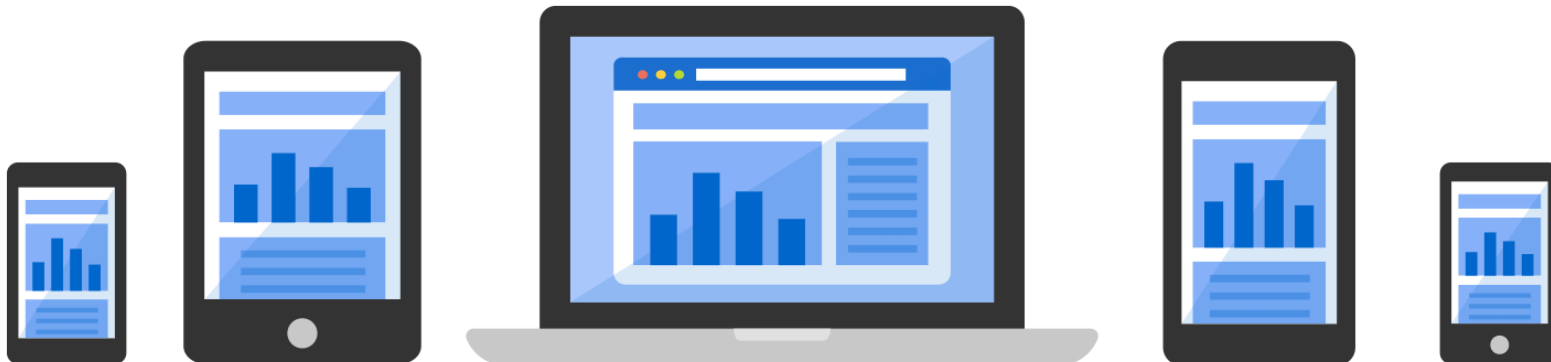
# Un SDK cross platformes



# Application temps réel



# NoSQL : Base de donnée temps réel



# API : Sauvegarde de données

```
var ref = new Firebase('https://angularu.firebaseio-demo.com');  
ref.set('Hi AngularU!');
```

# API : Synchronisation

```
ref.on('value', function(snapshot) {  
  console.log(snapshot.val());  
});
```

# Mode hors ligne

**Que se passe t'il quand je passe sous un tunnel ?**



Firestore enregistre les données en cache côté client et l'application continue de fonctionner comme d'habitude.

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**Géré automatiquement.**



**On peut se concentrer sur l'applicatif.**

# Authentication

## Plusieurs type d'authentification supportés

- Email + Passeword
- Google
- Twitter
- Facebook
- Github
- Anonyme

## Comment ça marche ?

```
var ref = new Firebase('https://angular-u.firebaseio.com/');

// Login with Twitter
ref.authWithOAuthPopup('twitter', function(error, authData) {
  console.log(authData);
});
```

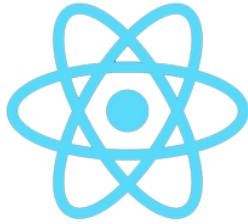
## Sécurité

```
{
  "rules": {
    ".read": true,
    "users": {
      "$uid": {
        ".write": "auth.uid === $uid"
      }
    }
  }
}
```



# Bindings

## Frameworks javascript



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## Module Angular



**AngularFire**  
by  **Firebase**

- Authentication
- Synchronisation

# AngularFire

## \$firebaseArray

```
$scope.messages = $firebaseArray(ref);

message.$add({
  name: "Sara",
  text: "Firebase + Angular is so fun!"
});
```

---

## Données au format json

```
{
  "messages": {
    "-JrsrpA49noidzbDS6dP": {
      "name": "Sara",
      "text": "Firebase + Angular is so fun!"
    }
  }
}
```

# AngularFire

## \$firebaseAuth

### Installation via bower

```
angular.module('places', ['ionic','firebase'])
```

### SignUp: \$firebaseAuth.\$createUser

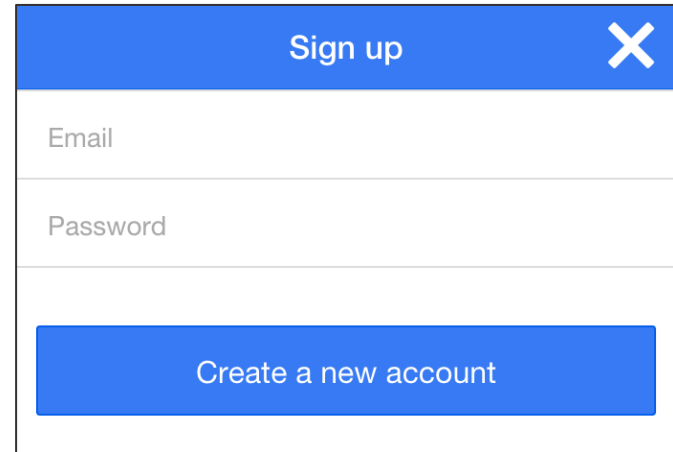
```
signUp: function (email, password) {  
    var that = this;  
    var promise = auth.$createUser({  
        email: email,  
        password: password  
    }).then(function(authData) {  
        promise = that.login(email,password);  
        return promise;  
    }).catch(function (error) {  
        alert("FirebaseService. " + error);  
        return promise;  
    });  
    return promise;  
},
```

### Login: \$firebaseAuth.\$authWithPassword

```
login: function (email,password) {  
    var promise = auth.$authWithPassword({  
        email: email,  
        password: password  
    }).catch(function(error) {  
        alert("FirebaseService. Authentication failed:" + error);  
        return promise;  
    });  
    return promise;  
},
```

# Let's go Firebase Auth !

**\$ git checkout valid-10-start**



A 'Sign up' form with a blue header bar containing the text 'Sign up' and a close button (X). Below the header are two input fields: 'Email' and 'Password'. At the bottom is a blue button with the text 'Create a new account'.

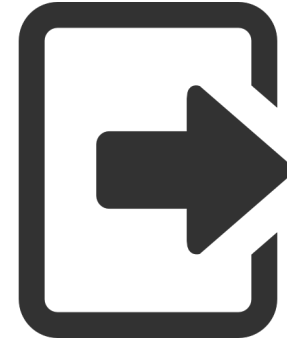
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**Objectif: login + resolve**



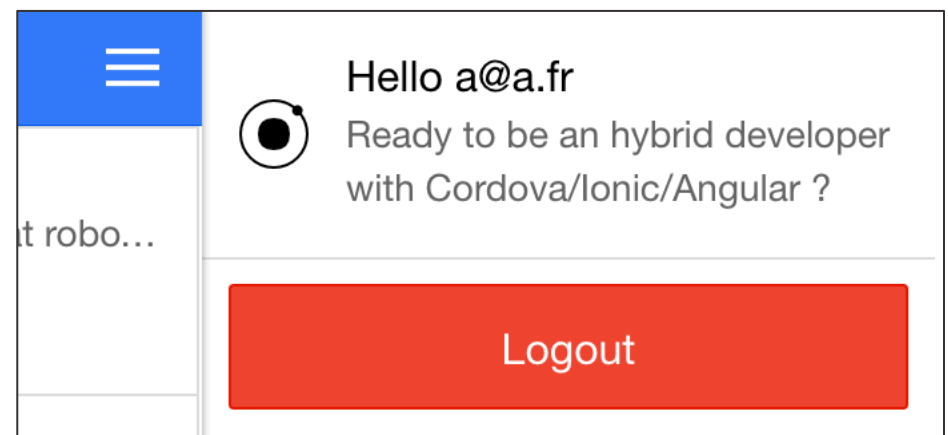
**Correction: \$ git checkout valid-10**

## Objectif: logout



```
var ref = new Firebase('https://ionic-places.firebaseio.com/');  
var auth = $firebaseAuth(ref);  
  
auth.$unauth();
```

## Afficher l'email utilisateur dans le menu



Correction: \$ git checkout valid-10