Quickly Build App without Backend

(any)Frontend + Firebase

https://www.firebase.com



About Firebase

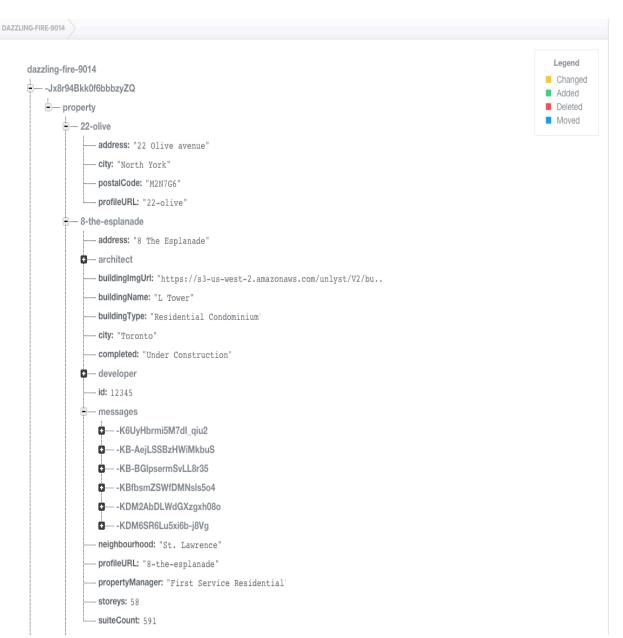
- Real Time NoSQL Database
- JSON Format
- Edit data On UI (Dashboard)
- Integrated Authentication

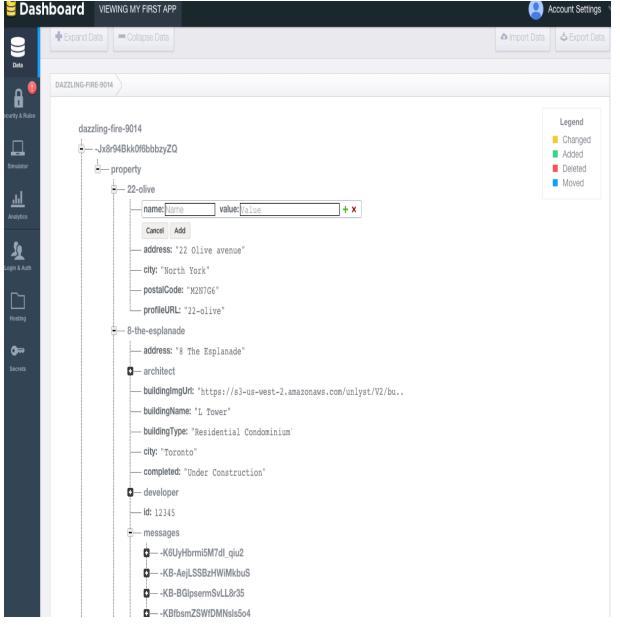
About Firebase

- Firebase Hosting
- Acquired by Google in October 2014

Why I use firebase

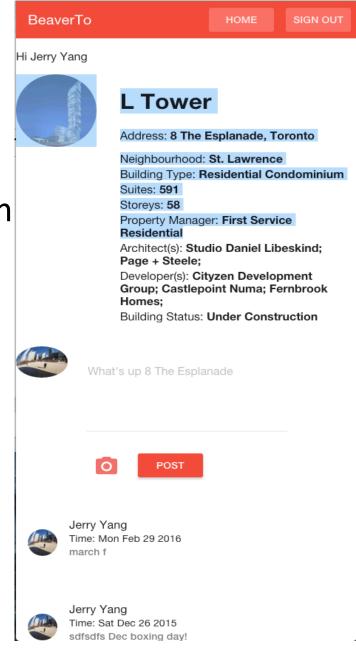
- FIREBASE is NoSQL DB + WEBSOCKET
- Easy to use
- Can build an app without backend
- Fast to config
- Buid in auth
- Support multiple paltform
- Can manipulate(modifiy) data directly





Simple Project

- A building message app(from one of my side project
- Login
- Building portal
- Real time message





What's up 8 The Esplanade



POST



Jerry Yang Time: Mon Feb 29 2016 march f



Jerry Yang Time: Sat Dec 26 2015 sdfsdfs Dec boxing day!



Brandon Graham Donnelly Time: Sat Feb 20 2016 hi ya



Brandon Graham Donnelly Time: Sat Feb 20 2016 testing again



Jerry Yang Time: Sun Mar 20 2016 hihih



How to config?

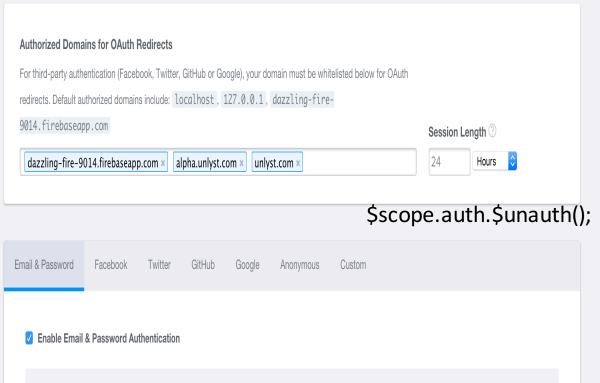
- AngularFire
- Initialization

```
var ref = new Firebase('https://dazzling-fire-9014.firebaseio.com/-Jx8r94Bkk0f6bbbzyZQ');
getAllPropertyArray: function() {return $firebaseArray(ref.child("property")); },
getPropertyArray: function(index) { return $firebaseArray(ref.child("property").child(index)); },
getPropertyObject: function(index) {return $firebaseObject(ref.child("property").child(index));},
getMessageArray: function(index) {return $firebaseArray(ref.child("property").child(index).child("messages"));},
getMessageObject: function() {return $firebaseObject(ref.child("property"));},
initAuth: function() {return $firebaseAuth(ref);}
```

Login && Authintication

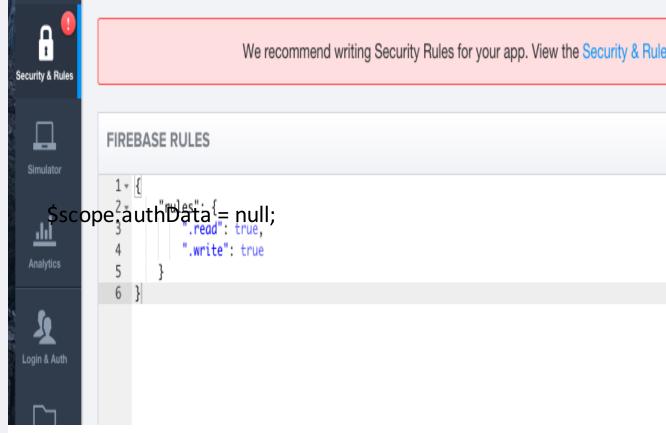
```
$scope.auth=FirebaseService.initAuth();
$scope.auth.$authWithOAuthPopup("facebook")
.then(function(authData) {
          console.log("Logged in as:", authData.uid);
          $scope.authData = authData;
          $scope.userImgUrl = $scope.authData.facebook.profileImageURL;
          $scope.userName = $scope.authData.facebook.displayName;
}).catch(function (error) {
          console.error("Authentication failed:", error);
});
$scope.auth.$unauth();
$scope.authData = null;
```

User Login & Authentication



Configuring Email & Password

Firebase makes it easy to integrate email and password authentication into your app. Learn more



Load Data

- \$scope.messages = FirebaseService.getMessageArray(profileId);
 \$scope.propertyObject = FirebaseService.getPropertyObject(profileId);
 \$scope.propertyObject.\$loaded()

 then(function (result) {
- //do something **})**; \$scope.messages.\$add({ userName: \$scope.authData.facebook.displayName, userId: \$scope.authData.auth.uid, userImgUrl: \$scope.userImgUrl, body: \$scope.postMessage, messagelmg: "some url" postTime: postTime.toDateString() }).then(function(ref) { console.log("added to message list"); \$scope.postMessage = "; \$scope.messageImg = "; **})**;

More

```
// Create a connection to your Firebase database
Firebase ref = new Firebase("https://<YOUR-FIREBASE-
APP>.firebaseio.com");
// Save data
ref.setValue("Alex Wolfe");
// Listen for realtime changes
ref.addValueEventListener(new ValueEventListener() {
@Override
public void onDataChange(DataSnapshotsnap) {
System.out.println(snap.getName() + " -> " + snap.getValue());
@Override public void onCancelled(FirebaseError_error) { }
});
```

```
// Create a connection to your Firebase database
var ref = new Firebase("https://<YOUR-FIREBASE-
APP>.firebaseio.com");
// Save data
ref.set({ name: "Alex Wolfe" });
// Listen for realtime changes
ref.on("value", function(data) {
var name = data.val().name;
alert("My name is " + name);
});
```

Supports:

- Web (js)
- los(objective-c)
- Android(java)
- Server side API

Resources:

- https://www.firebase.com/docs/
- https://www.firebase.com/tutorial/#gettingstarted
- https://thinkster.io/topics/firebase

Use cases

- Chat App
- Reviews component...
- Traffic app
- More....