

Using Firebase



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Overview

- Firebase basics
- Reading data
- Writing data
- A better realtime way to read data
- Handling removed items



Launched in 2011

Acquired by Google in Oct 2014



230k Developers on the Platform



Reached 1,000,000 Concurrent
Connections in 2014



Realtime Data Service

?

Is it a good fit for your project?

?

Is it a good fit for your project?

Your app

Firebase

“m” : “A”

Your app

Firebase

“m” : “A”

Your app

Firebase

“m” : “A”

“m” : “A”

Your app

“m” :

“A”

Firebase

“m” : “A”

Your app

message: A

Firebase

`"m": "A"`

Your app

message: A

Firebase

“m” : “A”

“m” : “B”

Your app

message: A

“m” : “B”

Firebase

“m” : “A”

“m” : “B”

Your app

message: A

message: B

Firebase

“m” : “A”

“m” : “B”

Your app

message: A

message: B

Firebase

“m” : “A”

“m” : “B”

“m” : “C”

Your app

message: A

message: B

“m” : “C”

Firebase

“m” : “A”

“m” : “B”

“m” : “C”

Your app

message: A

message: B

“m” :

“C”

Firebase

“m” : “A”

“m” : “B”

“m” : “C”

Your app

message: A

message: B

message: C

Firebase

“m” : “A”

“m” : “B”

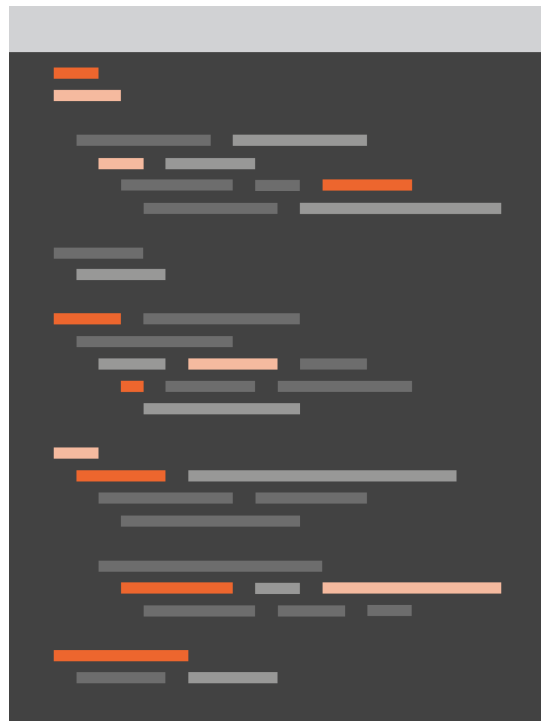
“m” : “C”

<https://react-stack.firebaseio.com/messages>

```
{  
  messages: {  
    ...  
  },  
  channels: {  
    ...  
  }  
}
```



No Arrays



Let's get coding!

Array

0: "A"

1: "B"

2: "C"

Our Document Finding Options

- Index based
- Each entry has an identity field
- A predicate to find the document is sent through to the api

Array

0: "A"

1: "B"

2: "C"

Delete at index 0 (A)



Array

0: "A"

1: "B"

2: "C"

Delete at index 0 (A)



Array

0: "B"

1: "C"

Delete at index 1 (B)



Array

0: "B"

1: "C"

Delete at index 1 (B)



Array

0: "B"

Delete at key_A (A)



Document

“key_A” : “A”

“key_B” : “B”

“key_C” : “C”

Delete at key_A (A)



Document

“key_B” : “B”

“key_C” : “C”

Delete at key_B (B)



Document

“key_B” : “B”

“key_C” : “C”

Delete at key_B (B)



Document

“key_C”: “C”



Installation and Configuration



Working with Objects Instead of Arrays



Writing Data



Recap

Recap

- Realtime
- Supports multiple platforms
- Firebase references are created with urls pointing to a specific node
- on
 - value
 - child_added
 - child_removed
 - child_changed
- Key-value objects opposed to arrays



