Introduction to Firebase

Who am I

I'm **Robert James Gabriel**

I work as **Developer**

At teamwork.com .

Odd facts:
Turned down a phd scholarship.

Hacked into my old school during finals,using a mobile phone and word clone.

I like algorithms, HCI design, Tabs over spaces.

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What is Firebase

What is firebase?

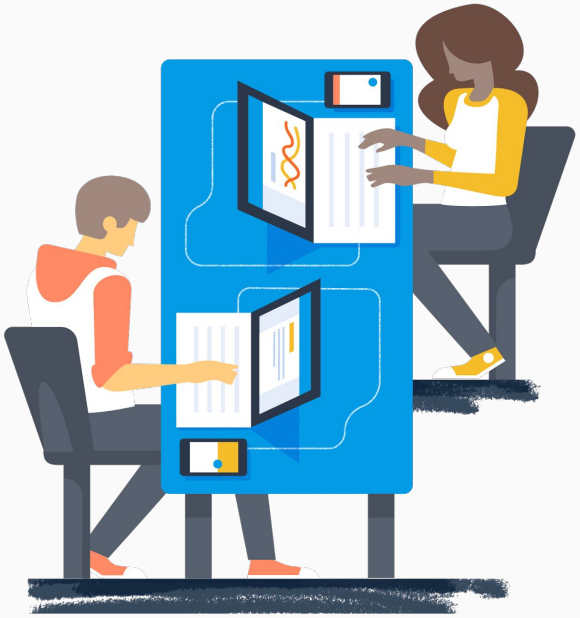
Is a NoSQL database.

Based on JSON.

Gives you the tools and infrastructure you need to build better apps and grow successful businesses.

Implementing is quick and easy.

With intuitive APIs packaged into a single SDK.



You can focus on solving your customers' problems and not waste time building complex infrastructure.

Where does firebase sit in your app?

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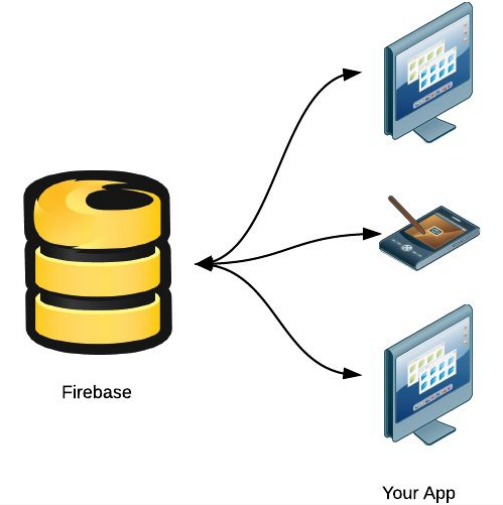
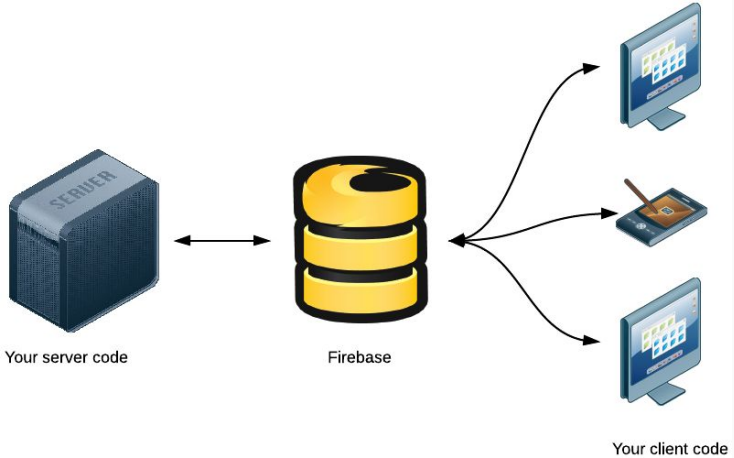
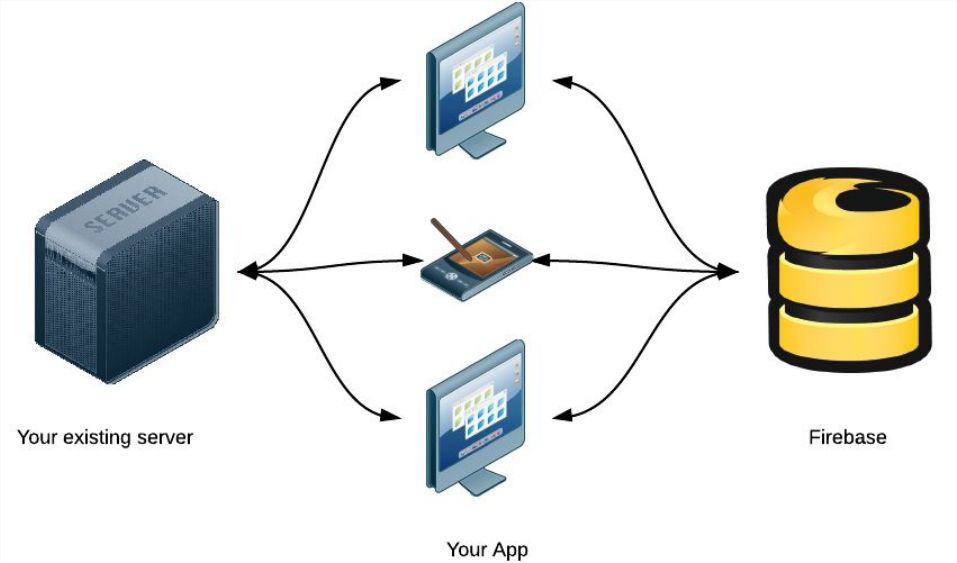


Client Side



Client side sever

Where does firebase sit in your app?



Existing App

Works across platform

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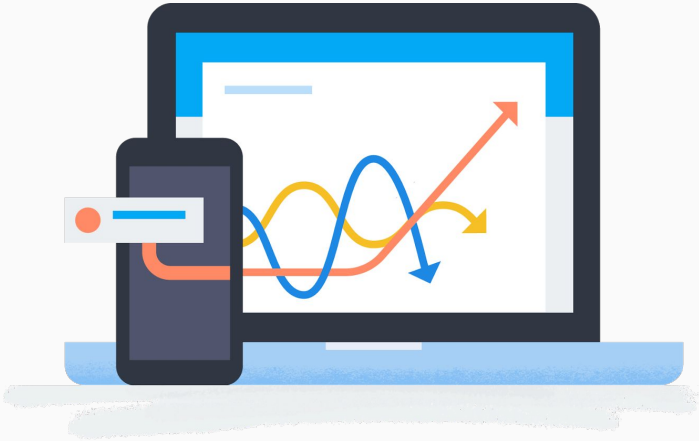
You can have one NoSQL database syncing across your in real time.

1. iOS
2. Android
3. JavaScript
4. C++.

Expand to a different platform without modifying your infrastructure.

Super easy to set up!



Code example

Javascript

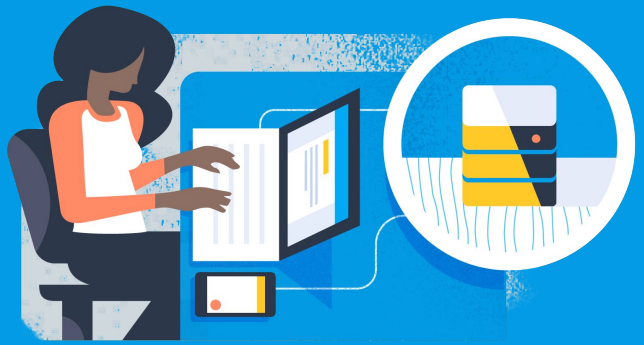
```
firebase.auth().onAuthStateChanged(function(user) {
  if (user) {
    // User is signed in
    var email = user.email;
    // ...
  } else {
    // User is not signed in
    // ...
  }
});
firebase.auth().signInWithEmailAndPassword(email, password);
```

JAVA

```
FirebaseAuth auth = FirebaseAuth.getInstance();
auth.signInWithEmailAndPassword(email, password)
    .addOnCompleteListener(new OnCompleteListener() {
        @Override
        public void onComplete(Task task) {
            if (task.isSuccessful()) {
                FirebaseUser user = task.getResult().getUser();
                String email = user.getEmail();
                // ...
            }
        }
    });
```

Live example

Going to create a basic signup/login
Android and a node program



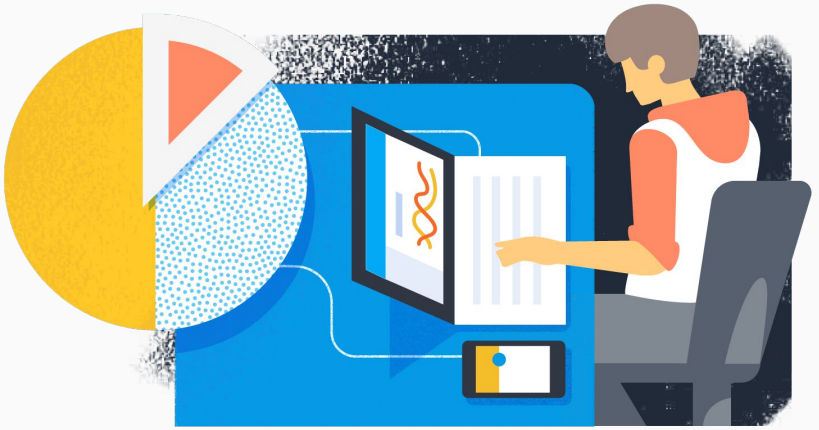
Analytics

Firebase Analytics

Analytics in Firebase works with other Firebase features, so you can take action on everything from click-through rates to app crashes.

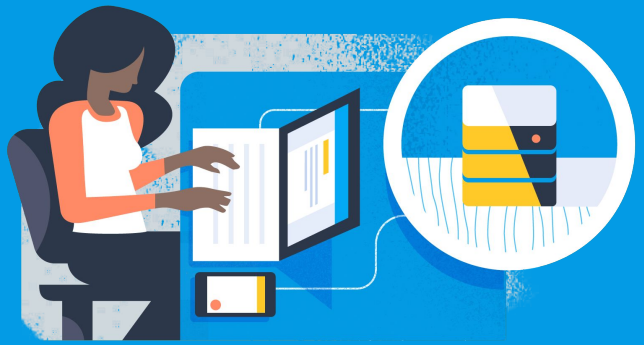
It helps you understand how people use your app.

You can set alerts and reports.



Live example

How to use Firebase Analytics and alerts



Other features

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Cloud Messaging
Deliver and receive messages across platforms reliably

Authentication
Reduce friction with robust authentication

Realtime Database
Store and sync app data in realtime

Storage
Store files with ease

Hosting
Deliver web content faster

Remote Config
Customize your app on the fly

Integrated/supported With Other Google Services

Firebase (NoSQL) vs MySQL

Firebase (NoSQL) vs MySQL

Pros

Firebase is awesome for real time updates to data.

Powerful tools for managing authorization and access to that data.

Easy to scale

Cons

Lacks searching and aggregation tools

Calculations on your data for Firebase need to be done on the client side after retrieving.

Thank you and Question Time