

Introduction to Firebase



Who am I

I'm Robert James Gabriel

I work as Developer

At  teamwork  .



Odd facts:

Turned down a phd scholarship.

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



RobertJGabriel



RobertJGabriel



robetgabriel.ninja

I like algorithms, HCI design,

What is Firebase

What is firebase?

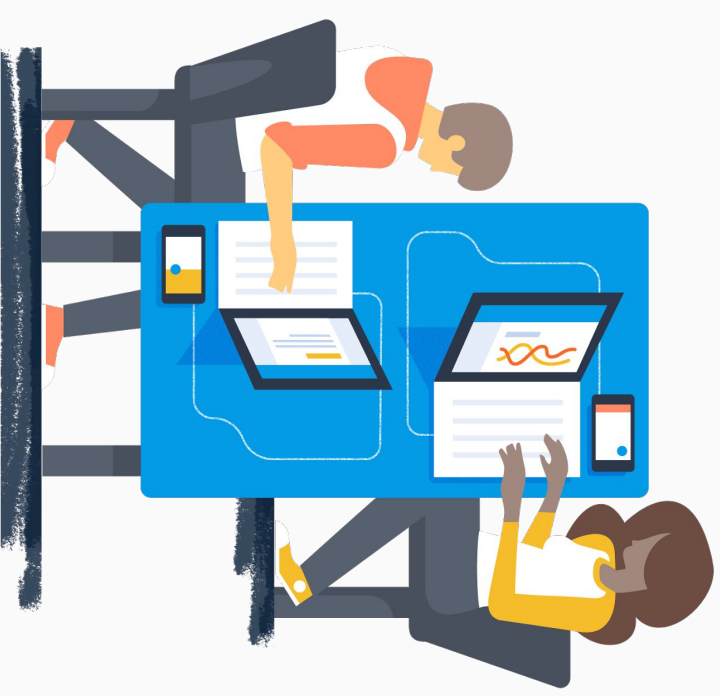
Is a NoSQL database.

Based on JSON.

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

Implementing is quick and easy.

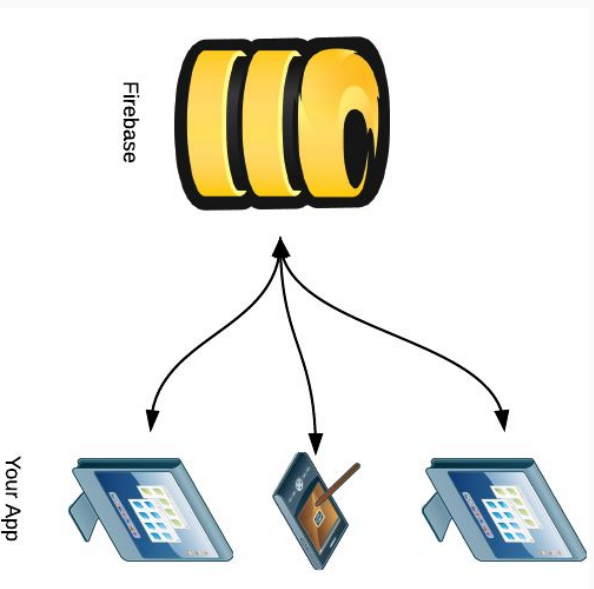
With intuitive APIs packaged into a single SDK.



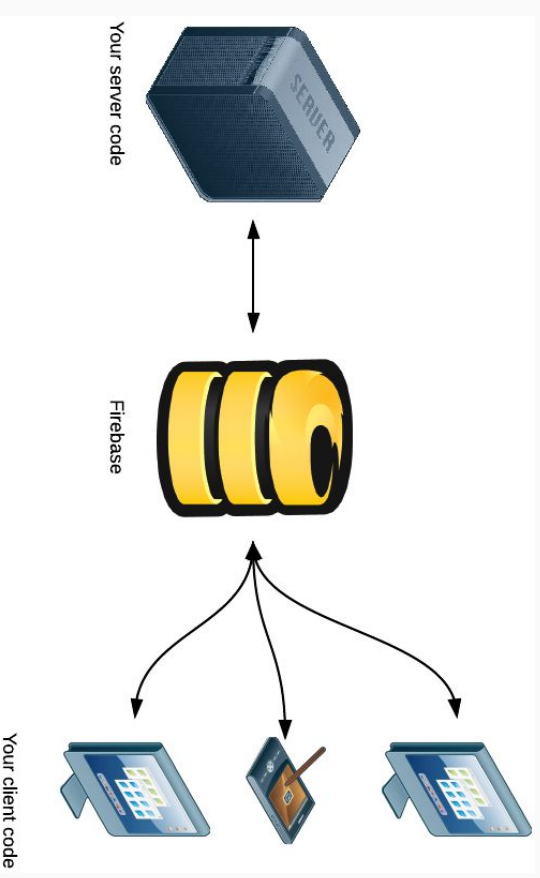
You can focus on solving your customers' problems and not waste time building complex infrastructure.

Where does firebase sit in your app?

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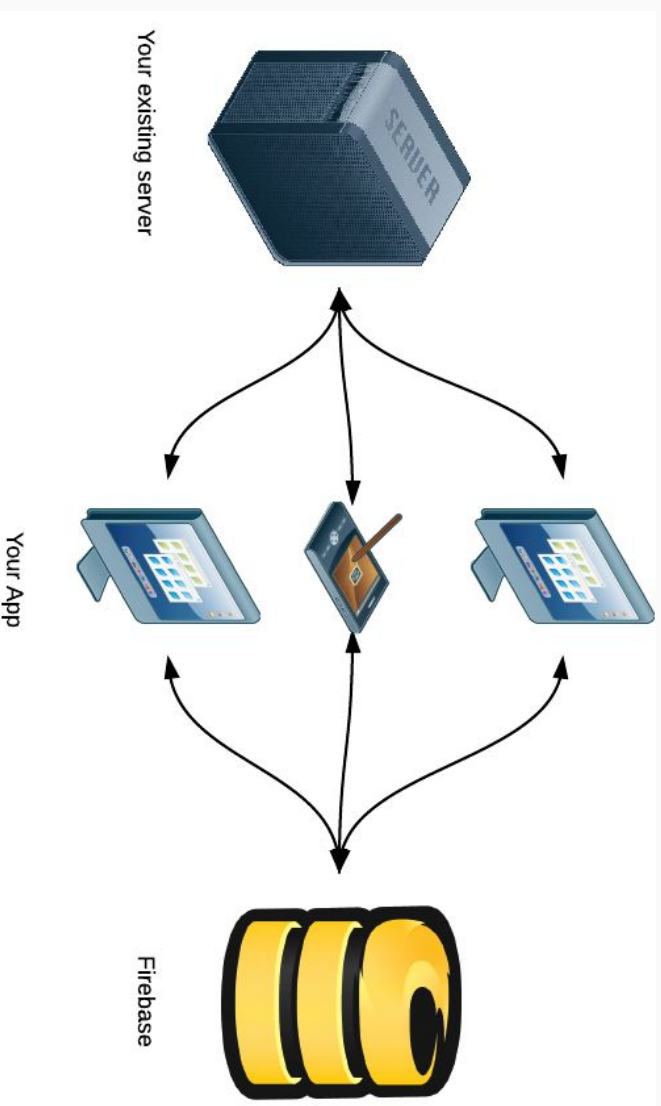


Client Side



Client side sever

Where does firebase sit in your app?



Existing App

Works across platform

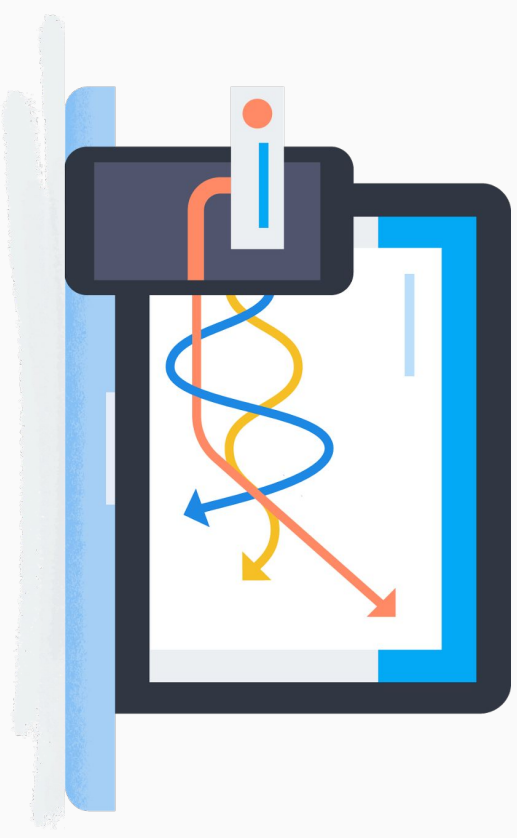
Works across platform

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

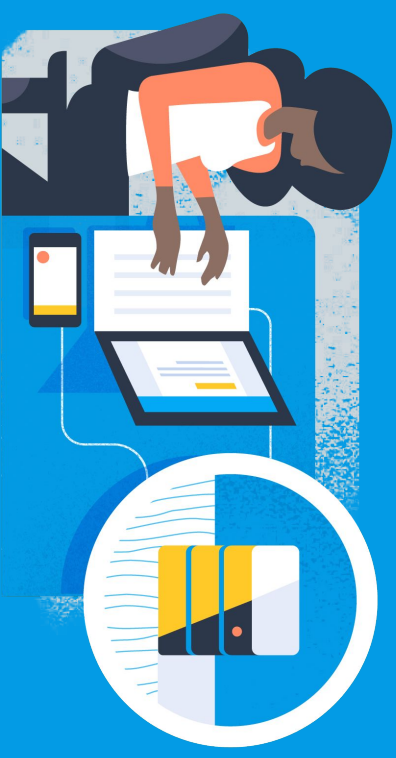
```
firebase.auth().onAuthStateChanged(function(user) {  
  if (user) {  
    // User is signed in  
    var email = user.email;  
    // ...  
  } else {  
    // User is not signed in  
    // ...  
  }  
});  
firebase.auth().signInWithEmailAndPassword(email, password);
```

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



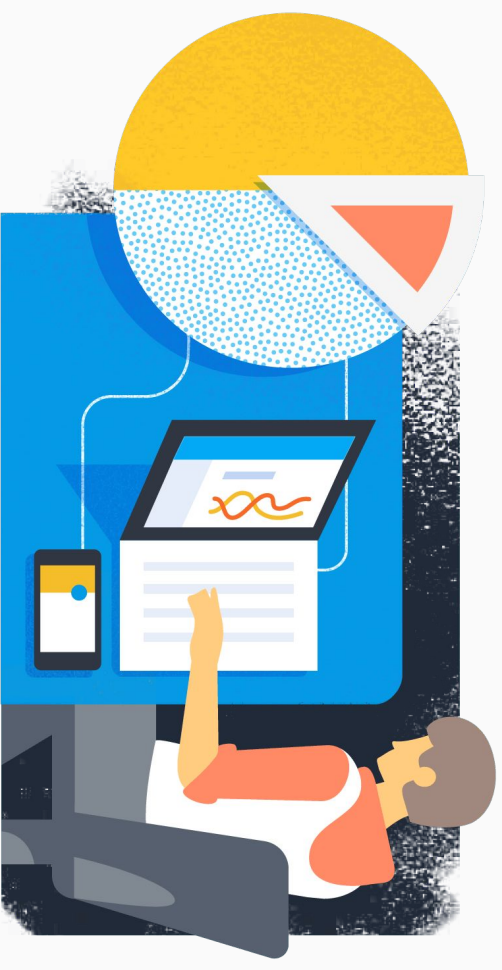
Analytics

Firebase Analytics

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

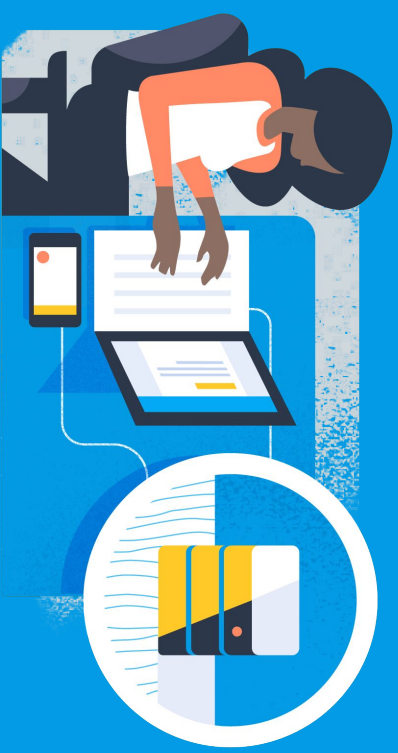
It helps you understand how people use your app.

You can set alerts and reports.



Live example

How to use Firebase Analytics and alerts



Other features

Other features

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

Firestore (NoSQL) vs MySQL

Firestore (NoSQL) vs MySQL

Pros

Firestore 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 Firestore need to be done on the client side after retrieving.

Thank you and Question Time