

# Back-End as a Service (BaaS)

Full-Stack applications need a front-end and back-end. Using a Back-End as a Service (BaaS) like Firebase you get all the benefits of a back-end without the complications of setting one up from scratch.

## WE'LL COVER THE FOLLOWING



- API's allow us to communicate with our back-end
- The Firebase API
- Benefits of using the Firebase BaaS

## API's allow us to communicate with our back-end

#

In order to set up a back-end, without Firebase, you would have to configure a server, database, and **API**. This is challenging and time-consuming.

We communicate with back-ends using an **application programming interface (API)**.

With Firebase you will use a preconfigured **API** but will not have to configure a server, database or even have to worry about the environment that the server runs in.

## The Firebase API #

Using the **Firebase API** is as easy as accessing the `firebase` object. This object contains many methods, each one representing a different service. By invoking the `firestore` method you can get access to Cloud Firestore. It's a database that you can use to store and retrieve information.

API

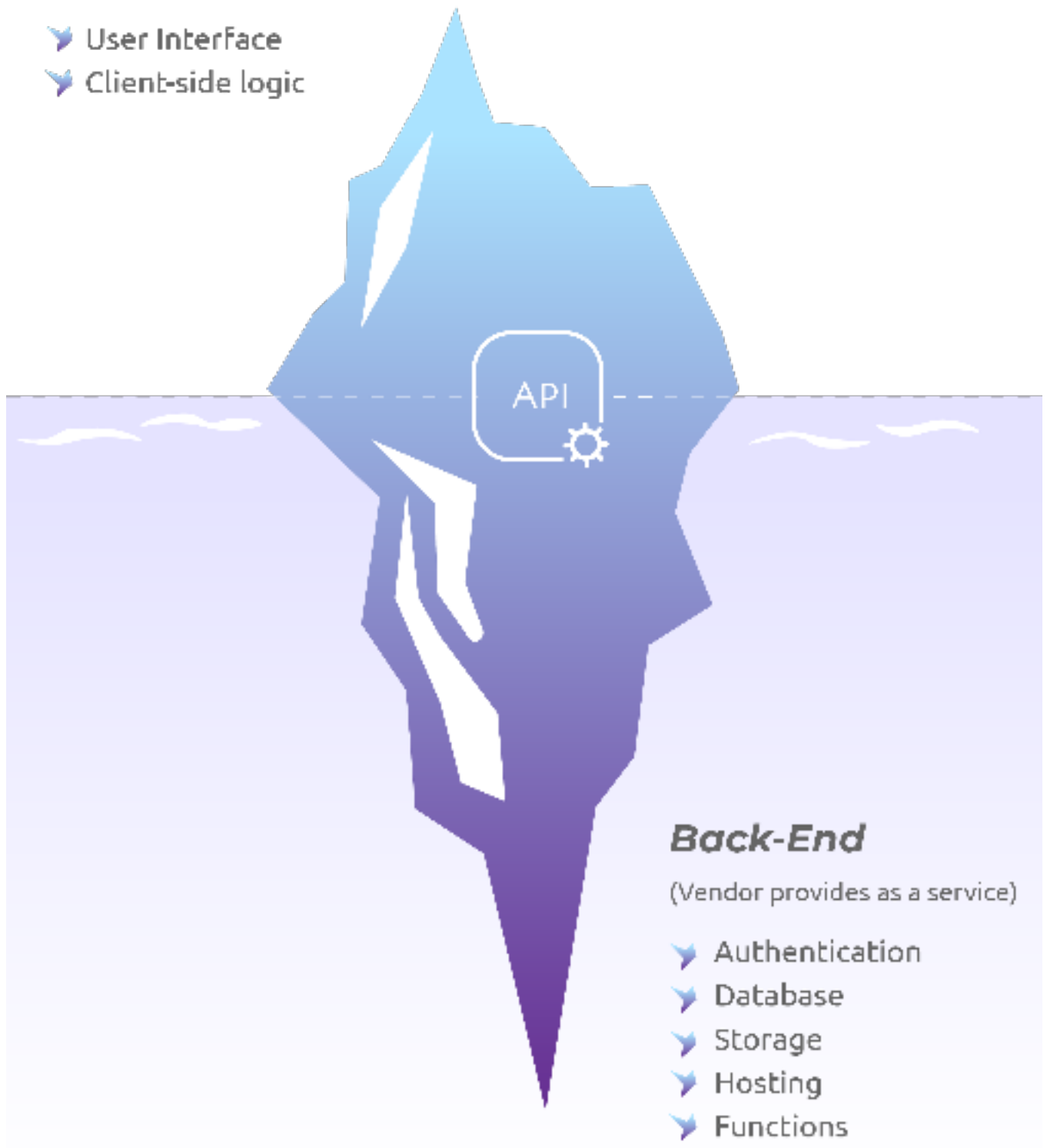
`firebase.firestore()`

Service

## **Front-End**

(Developer Builds)

- User Interface
- Client-side logic



## **Back-End**

(Vendor provides as a service)

- Authentication
- Database
- Storage
- Hosting
- Functions

## Benefits of using the Firebase BaaS #



### Save Time

If fully functioning applications is your end goal then using Firebase as your back-end gets you where you need to go.



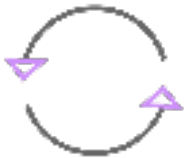
## Security

With built in comprehensive security you will not need to lose sleep over hackers. Configure rules specific to your app.



## Speed

Solid state drive (SSD) caching for your deployed apps makes site loading time extremely fast.



## Realtime

The database updates all connected clients in realtime. This is excellent for many types of apps including realtime chats.