

# Quickstart

```
// ----- QUICKSTART -----
// JS is the main language used to interact with Firebase and its suite of tools
// below is a brief skeleton to reference when using Firebase's authentication and Firestore in any JS project

// ----- USER AUTHENTICATION -----
// import firebase from 'firebase/app' => calls the firebase module in your JS app and brings it within local scope
// import 'firebase/auth' => calls the authentication library firebase provides to your JS app and brings it within local scope
// .initializeApp(<yourFirebaseConfiguration>) => initializes the firebase app with the provided configuration saved as a JS object
// .auth() => initializes the authentication object within the firebase app, upon which many authentication methods can be called
// .signInWithEmailAndPassword(<userEmail>, <userPassword>) => handles the authentication process for a login that requires both the user's email and password, called on the authentication object

import firebase from 'firebase/app';
import 'firebase/auth';

const firebaseConfig = {
  // blah blah
  // your firebase configuration here
  // blah blah
};

firebase.initializeApp(firebaseConfig);
const auth = firebase.auth();

auth.signInWithEmailAndPassword(email, password).then((userCredential) => {
  // blah blah
  // if the user signed in successfully
  // blah blah
}).catch((error) => {
  // blah blah
  // handle any errors generated
  // blah blah
});

// ----- FIRESTORE -----
// import { getFirestore } from 'firebase/firestore/lite' => calls the getFirestore() method in your JS app and brings it within local scope
// getFirestore(<firebaseAppObject>) => initialises a firestore instance
// .collection(<collectionName>) => initialises an existing collection in the firestore database into a collection object
// .doc(<documentName>) => initialises existing documents in the firestore database into a document object
// .set(<documentValueLiteral>) => adds the specified document value literal to the current document object within the selected collection
// .get().then(<documentObject>=>{}) => reads the current document object selected

import { getFirestore } from 'firebase/firestore/lite';
const db = getFirestore(firebaseApp);

const colRef = db.collection('users');
const docRef = colRef.doc('uid');

docRef.set({
  name: 'Bob',
  age: 30
});

docRef.get().then((doc) => {
  if (doc.exists) {
    const data = doc.data();
    console.log(data);
  } else {
    console.log('No such document!');
  }
});
```