**Install command:**

npm install firebase

**firebase.js**

import firebase from "firebase/compat/app";

import "firebase/compat/auth";

import "firebase/compat/storage";

import "firebase/compat/firestore";

const firebaseConfig = {

  apiKey: "AIzaSyCBkDg0Agx9NVPpO2qOaREI-iqyMBERUWw",

  authDomain: "react-firebase-81d80.firebaseapp.com",

  projectId: "react-firebase-81d80",

  storageBucket: "react-firebase-81d80.appspot.com",

  messagingSenderId: "201659739502",

  appId: "1:201659739502:web:e3412ed9c7a378fb32a57f",

  measurementId: "G-8G7HSW6ZNX",

};

*// Initialize Firebase*

firebase.initializeApp(firebaseConfig);

export const auth = firebase.auth();

const firestore = firebase.firestore();

export const database = {

  users: firestore.collection("users"),

};

export const storage = firebase.storage();

**To be placed in file dealing with authentication:**

import { auth } from "../firebase";

**create id:**

async function create() {

let res = await auth.createUserWithEmailAndPassword(email, password);

console.log(res);

}

**signIn:**

  async function singin(){

      await auth.signInWithEmailAndPassword(email, password)

  }

**signOut:**

  async function logout(){

      await auth.signOut();

  }

**To check authentication:**

  useEffect(() => {

    let a = auth.onAuthStateChanged((user) => {

      setUser(user);

    });

    return ()=>{

        a();    *// clean up*

    }

  },[]);

**Create document in database with automatic unique id:**

async function createUserInDB() {

  let res = await database.users.add({ name, age });

  console.log(res);

}

**Create document in db with given unique id:**

async function createUserInDB() {

  let res = await database.users.doc("123456789").set({ name, age });

  console.log(res);

}

**Read all documents data:**

    let data = await database.users.get();

    data.forEach(d=>console.log(d.data()))

**reading specific document data:**

    let data = await database.users.doc("123456789").get();

    console.log(data.data());

**update document:**

 async function update() {

    await database.users.doc("123456789").update({ name, age });

  }

**delete document:**

  async function deletef(){

    await database.users.doc('123456789').delete();

  }

**Upload file in firestore:**

  const [file, setFile] = useState();

  function uploadFun() {

    let uploadTask = storage.ref(`/data/${file.name}`).put(file);

    uploadTask.on("state\_changed", fun1, fun2, fun3);

    function fun1(snapshot) {

      let progress = (snapshot.bytesTransferred / snapshot.totalBytes) \* 100;

      console.log(`${progress} done`);

    }

    function fun2(e) {

      console.log(e);

    }

    function fun3() {

      uploadTask.snapshot.ref.getDownloadURL().then((url) => {

        console.log(url);

      });

    }

  }