Fire Base

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Creative objective section:

The features from fire base that i included in this project was using Email/Password user sign-in provider, as well as sending data to a FireStore database and using the onSnapshot() function to reflect database changes in the UI of the website. This project was done on my own without any partners.

Link to hosted site: <https://firebase-gtk-web-start-bjghg8.stackblitz.io/>

Link to github: <https://github.com/rgrad/FireBaseProject>

Slideshow link: <https://github.com/rgrad/FireBaseProject/blob/main/Firebase.pdf>

Tech summary section:

The initial Goal of this project at first was to simply create a site that was able to communicate with a fireStore database as well as format that database. After i started learning more about firebase i realized that my initial idea was under-scoped and decided that i would be able to add in user authentication as wells as use the real-time features of firestore to alter elements of the site in real time.

This project relies on the node packages firebase, firebase/auth, firebase/firestore, firebaseui, and initializeApp .

| import {  getAuth,  EmailAuthProvider,   signOut,  onAuthStateChanged } from 'firebase/auth'; import {  getFirestore,  addDoc,  collection,  query,  orderBy,  onSnapshot } from 'firebase/firestore';  import \* as firebaseui from 'firebaseui'; |
| --- |

These packages were downloaded via Node Package manager.

In this project the most important code in my javaScript was utilizing the initializeApp function listed above.

| const firebaseConfig = {  apiKey: "AIzaSyDM297uhmHoo6apZjjnHLbY\_xOw3CiT2Oc",  authDomain: "fir-web-codelab-603d5.firebaseapp.com",  projectId: "fir-web-codelab-603d5",  storageBucket: "fir-web-codelab-603d5.appspot.com",  messagingSenderId: "66141481493",  appId: "1:66141481493:web:a65de9a197b8a5ed0dbc1c",  measurementId: "G-RXBCL3TL0Z"  };   initializeApp(firebaseConfig); |
| --- |

In this section of code i am using the FireBase config information that is generated on the FireBase dashboard when you create a new project. This firebaseConfig variable is what is used to create the connection between my application and the firebase project.

Member notes:

I was The only member of my group and as such i did all of the work on this project. In the beginning stages of developing my project i experienced many difficulties in getting relevant information on learning how to use firebase. When we first needed to sign up for a topic, i found a video from a few years ago talking about firebase (<https://www.youtube.com/watch?v=vAoB4VbhRzM&t=3s>). I looked more into their content and found that they had a large number of videos aimed to get people started in firebase. After a few hours of troubleshooting i checked the comments to see if anyone was having the same issues as I was. It was here that I found that firebase had gone through some major overhauls that rendered this video instruction almost useless. This was a problem that I would continue to face in the early stages of development. As I would find out, Firebase regularly goes through updates that can completely change the way that you have to set up for database and configuration information in order to connect to firestore. Only when I found an article directly from firebase that was released 7 months ago detailing changes to firestore before I could make any headway. In hindsight I would have sought out the most recent information first and have worked my way backwards from there if I wanted more. This is the first time that I have had to interact with a service that was so radically changed on a semi-regular basis. It has definitely taught me to be more discerning with where I get my information so that i do not waste time on outdated instructions.

Sources:

Fireship. (2022, February 17). *Firebase in 100 seconds* [Video]. YouTube. <https://www.youtube.com/watch?v=vAoB4VbhRzM>

*Build documentation*. (n.d.). Firebase. <https://firebase.google.com/docs/build>

<https://firebase.google.com/docs/reference/js/firestore_>

Firebase. (2023, April 27). *Getting started with Firebase on the Web* [Video]. YouTube. https://www.youtube.com/watch?v=ILTo8IvFXJw