

Firebase Guide

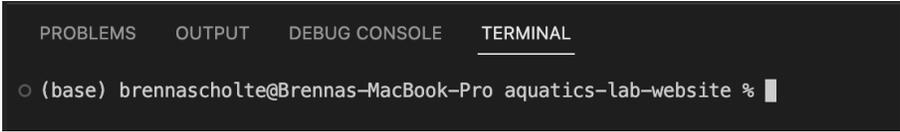
What is **Firebase**?

Firebase is an app development platform that helps you build and grow apps and games users love. Firebase is a set of backend cloud computing services and application development platforms provided by Google. It hosts databases, services, authentication, and integration for a variety of applications.

Tutorial Videos: [Firebase Hosting Tutorial](#)

Getting Started

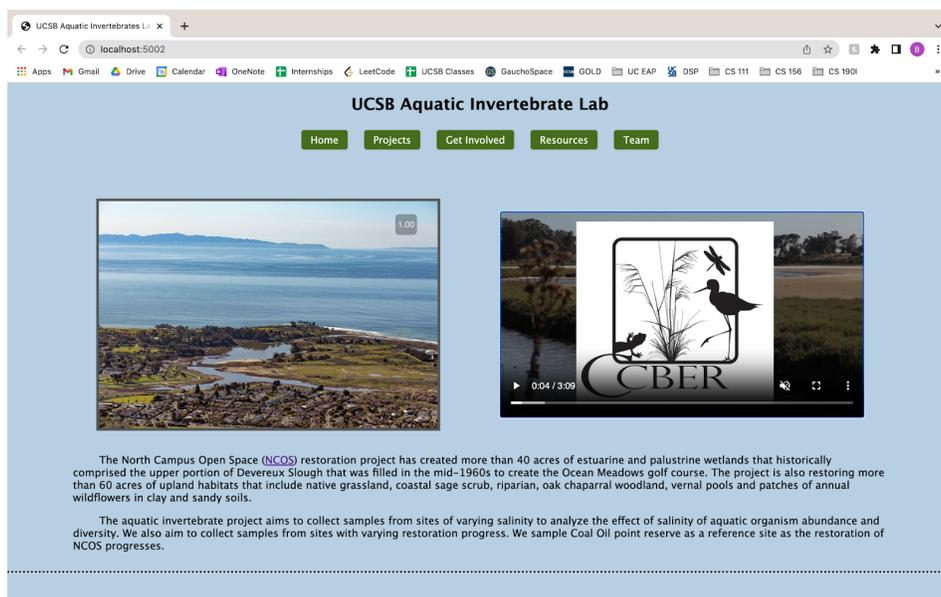
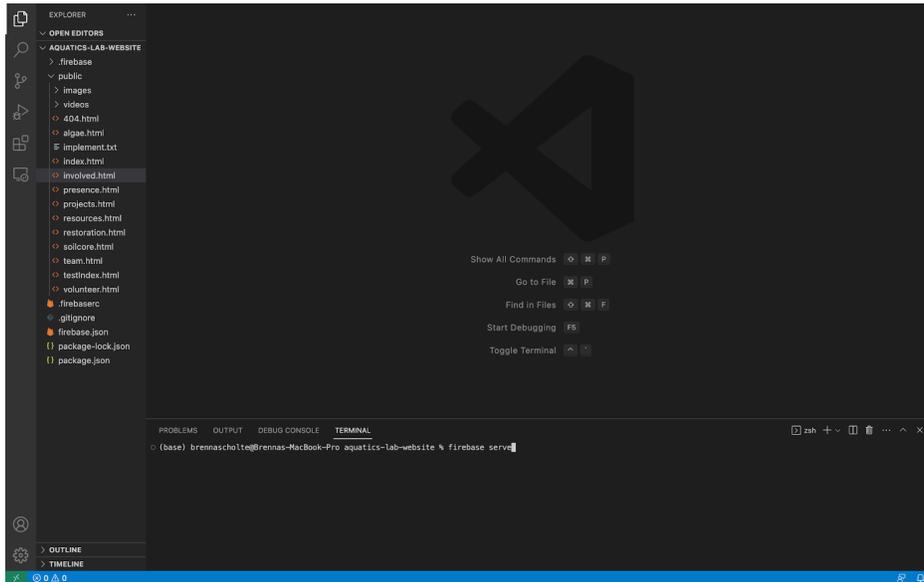
- Create [firebase project](#) (or ask to be shared to join the existing project)
- Install [Visual Studio Code](#) (aka VS Code) onto your local computer
 - This is recommended, but you can use any text editor
 - To open the terminal, in the top navigation bar select: Terminal > New Terminal
- Install [Node.js](#) (Firebase CLI) to local computer
 - In terminal, check version: `$ node --version`
- Install firebase tools: `$ npm install -g firebase-tools`
- Sign in to Google account: `$ firebase login`
- Initiate project: `$ firebase init`
 - Choose "Hosting" feature
 - Select existing project that you created in firebase
 - Use default "public" as public directory
 - Enter "no" when asked to configure as a single-page app
 - Note: this will automatically create files/folders
 - Go to public folder, delete the default index.html add your own index.html
- Ensure that you are in the correct directory containing the website's code
 - The folder should be called "aquatics-lab-website"



```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
○ (base) brennascholte@Brennas-MacBook-Pro aquatics-lab-website %
```

Deploying Website Locally to Test Changes

- `$ firebase serve`
 - Click on local host link
 - To update local URL changes, refresh webpage
 - Can also use: `$ firebase emulators:start`
 - In terminal, `Ctrl + C` to exit hosting environment



Deploying Website

- Deploy onto actual website using Firebase: `$ firebase deploy`
 - View deployment on [Firebase console](#) under "Hosting"

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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
(base) brennascholte@Brennas-MacBook-Pro aquatics-lab-website % firebase deploy
```

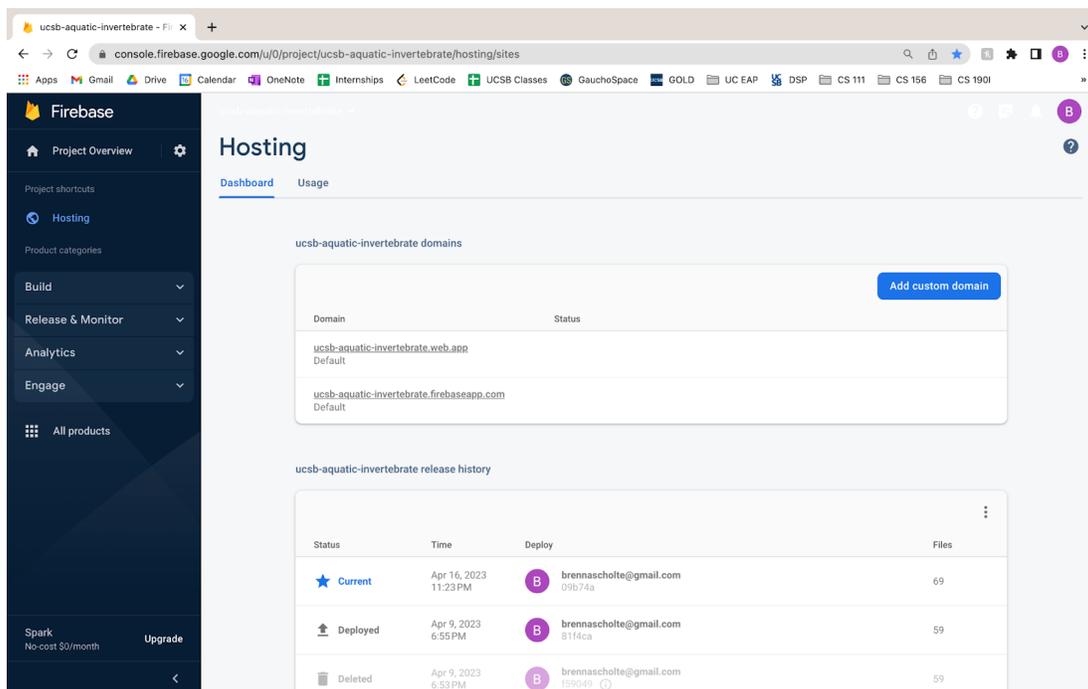
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PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
(base) brennascholte@Brennas-MacBook-Pro aquatics-lab-website % firebase deploy

=== Deploying to 'ucsb-aquatic-invertebrate'...

i deploying hosting
i hosting[ucsb-aquatic-invertebrate]: beginning deploy...
i hosting[ucsb-aquatic-invertebrate]: found 67 files in public
✓ hosting[ucsb-aquatic-invertebrate]: file upload complete
i hosting[ucsb-aquatic-invertebrate]: finalizing version...
✓ hosting[ucsb-aquatic-invertebrate]: version finalized
i hosting[ucsb-aquatic-invertebrate]: releasing new version...
✓ hosting[ucsb-aquatic-invertebrate]: release complete

✓ Deploy complete!

Project Console: https://console.firebase.google.com/project/ucsb-aquatic-invertebrate/overview
Hosting URL: https://ucsb-aquatic-invertebrate.web.app
(base) brennascholte@Brennas-MacBook-Pro aquatics-lab-website %
```



Common Linux/Git Commands

[Linux Cheat Sheet](#)

[Git Cheat Sheet](#)

- Show current directory: `pwd`
- Change directory: `cd "directory/folder name"`
- List files in current directory: `ls`
- Save file: `Command + S`

*Note: all keyboard shortcuts are for Mac computers, therefore they may differ depending on your machine