Info needed:

- Project name — Project ID of Firestore project

- databaseURL — Found in Firebase > Database > Service Accounts

- private key JSON — same place but click "Generate New Private Key" button

- irb\_data.json- data file CSV or JSON

- Delim.cpp — Modifies data file to include "Document" collections

- fs\_script.js — Used for putting data into Firestore

- 1. Install Google Cloud Platform CLI (Follow the instructions and use "gcloud init" to test if it works) https://cloud.google.com/sdk/install
- 2. Create new folder on home directory and place Delim.cpp, fs\_script.js, and irb\_data.json into the folder.
- 3. Inside the folder, install firebase-admin using "npm -i firebase-admin"
- 4. Create a copy of irb\_data.json and convert it to a txt file (irb\_data.txt or changing the name will make it easier to follow. Ex: irb\_update.txt).
- 5. Modify Delim.cpp to target irb\_update.txt to modify and run the program.
  - Compile using **g++ Delim.cpp -o delim**
  - Run using ./delim

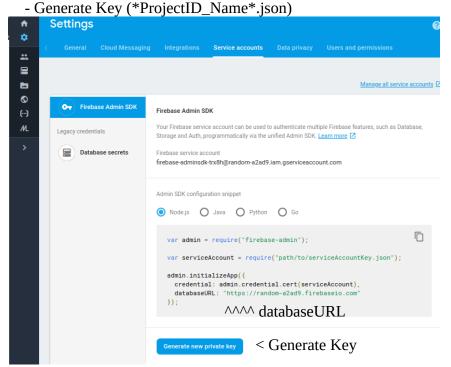
6. Edit the compiled txt file with a collector classifier. Ex {

```
"CSUSB": {

"Document-1": {

....
},
....
}
```

- 7. Convert the txt file back into a json file.
- 8. Create a firestore project.
- 9. Get project information from Project Settings > Service Accounts
  - DatabaseURL



10. Place the generated key json into the created folder, but DO NOT change the name (It's a long name).

- 11. Modify admin, serviceAccount, data, ad databaseURL in the fs\_script.js file.
  - admin = The location to firebase-admin file ("./node\_modules/firebase-admin")
  - serviceAccount = Location to Generated Key ("./\*LongName\*.json")
  - data = Location to the modified irb data.json file ("./irb data.json")
  - databaseURL = Url to project ("<a href="https://BLAH.firebaseio.com">https://BLAH.firebaseio.com</a>")

```
const admin = require('./node_modules/firebase-admin');
const serviceAccount = require("./random-a2ad9-firebase-adminsdk-trx8h-133b7295lb.json");

const data = require("./irb_update.json");

admin.initializeApp({
    credential: admin.credential.cert(serviceAccount),
    databaseURL: "https://random-a2ad9.firebaseio.com"
});

data && Object.keys(data).forEach(key => {
    const nestedContent = data[key];
```

- 12. Make sure to check if gcloud is on the correct project.
  - If not, run "gcloud projects list".
  - Find the correct project in the list and run "gcloud config set project \*PROJECT\_ID\*"

```
kryptic@kryptic-opencv:~/firebase_project$ gcloud projects list
PROJECT_ID NAME PROJECT_NUMBER
calm-aegis-232815 My First Project 509893235744
random-a2ad9 Random 899662180438
test-project-9f4a4 Test Project 739059374275
```

13. Run fs\_script.js using "node fs\_script.js".

If fs\_script is configured correctly, it should show a list of Documents being uploaded.

