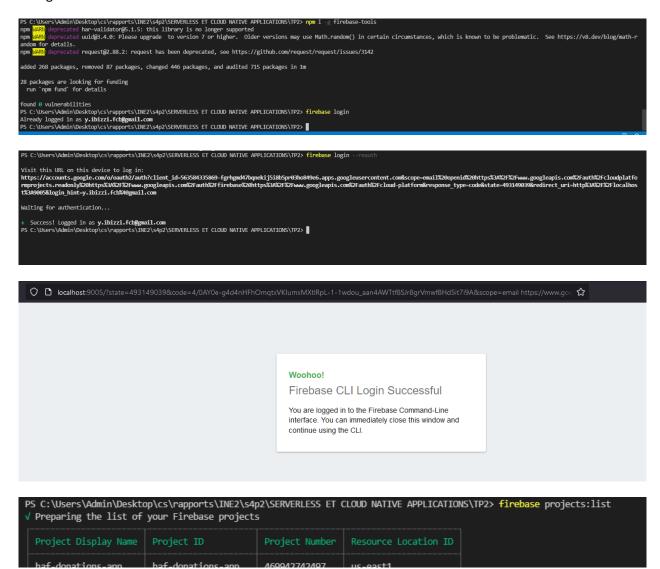


TP2 – Cloud Functions

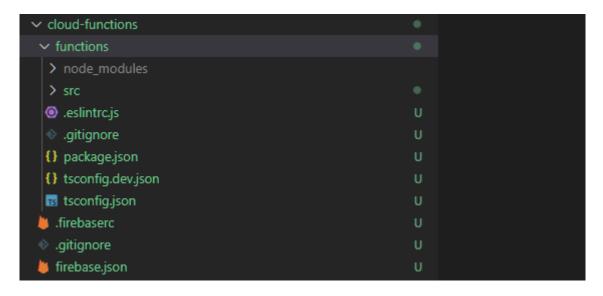
SERVERLESS ET CLOUD NATIVE APPLICATIONS

Réalisé par : Younes IBIZZI INE2 ASEDS

1- Login avec Firebase CLI



2- Initialisation de Cloud Functions :



3- Déploiement sur Firebase :

```
PS C:\Users\Admin\Desktop\cs\rapports\INE2\s4p2\SERVERLESS ET CLOUD NATIVE APPLICATIONS\tp2\cloud-functions> firebase deploy --only functions

=== Deploying to 'tp-serverless-ca2ce'...

i deploying functions

Running command: npm --prefix "$RESOURCE_DIR" run lint

> lint

> lint

> eslint --ext .js,.ts .

Running command: npm --prefix "$RESOURCE_DIR" run build

> build

> build

> tsc

+ functions: Finished running predeploy script.

i functions: ensuring required API cloudfunctions.googleapis.com is enabled...

! functions: ensuring required API cloudbuild.googleapis.com is enabled...

! functions: missing required API cloudbuild.googleapis.com is enabled...

! functions: required API cloudfunctions.googleapis.com is enabled
```

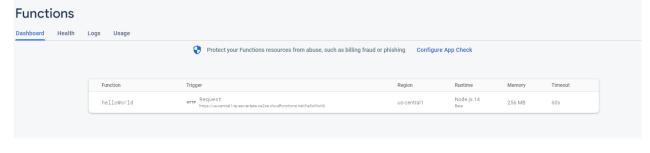
+ Deploy complete!

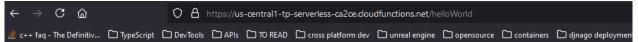
Project Console: https://console.firebase.google.com/project/tp-serverless-ca2ce/overview

Update available 9.12.1 → 9.13.1

To update to the latest version using npm, run npm install -g firebase-tools

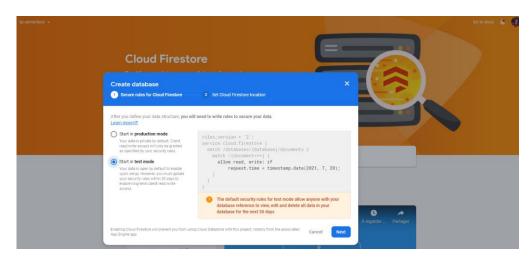
For other CLI management options, visit the CLI documentation (https://firebase.google.com/docs/cli#update-cli)

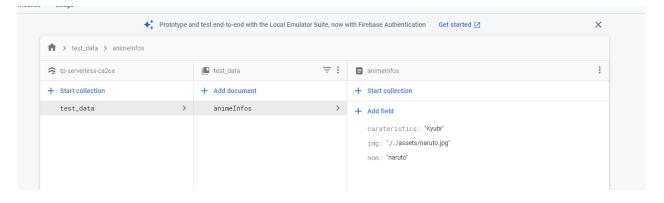




Hello from Firebase!

4- Ajout du data à Firestore :





5- Read Firestore data from cloud function:

```
TS index.ts U X
TP2 > cloud-functions > functions > src > T8 index.ts > 📵 getNarutoData > 🤡 functions.https.onRequest() callback > 🖯 cors() callback > 🖯 catch() callback
       admin.initializeApp();
       let db = admin.firestore();
       export const getNarutoData = functions.https.onRequest((request, response) => {
         functions.logger.info("Naruto data demanded.");
         cors(request, response, () => {
           db.collection("test_data")
             .where("nom", "==", "naruto")
             .limit(1)
             .get()
             .then((doc) => {
               if (doc.empty) {
                 console.log("No Documents for Naruto!");
                 return response.send("Not found.");
               let result = doc.docs.pop();
               console.log("Naruto found!
               return response.send(result?.data);
             .catch((_) => {
               console.log("Error retrieving Naruto.")
```

```
> eslint --ext .js,.ts .
Running command: npm --prefix "$RESOURCE_DIR" run build
> build
> tsc
  functions: Finished running predeploy script.
functions: ensuring required API cloudfunctions.googleapis.com is enabled...
  functions: ensuring required API cloudbuild.googleapis.com is enabled...
   functions: required API cloudbuild.googleapis.com is enabled
   functions: required API cloudfunctions.googleapis.com is enabled
  functions: preparing functions directory for uploading...
  functions: packaged functions (88.58 KB) for uploading
   functions: functions folder uploaded successfully
  functions: creating Node.js 14 function getNarutoData(us-central1)...
   functions: updating Node.js 14 function helloWorld(us-central1)...
   functions[getNarutoData(us-central1)]: Successful create operation.
+ functions[helloWorld(us-central1)]: Successful update operation.
Function URL (getNarutoData(us-central1)): https://us-central1-tp-serverless-ca2ce.cloudfunctions.net/getNarutoData
Function URL (helloWorld(us-central1)): https://us-central1-tp-serverless-ca2ce.cloudfunctions.net/helloWorld
Deploy complete!
Project Console: https://console.firebase.google.com/project/tp-serverless-ca2ce/overview
PS C:\Users\Admin\Desktop\cs\rapports\INE2\s4p2\SERVERLESS ET CLOUD NATIVE APPLICATIONS\tp2\cloud-functions>
```

```
← → C ♠ https://us-central1-tp-serverless-ca2ce.cloudfunctions.net/getNarutoData

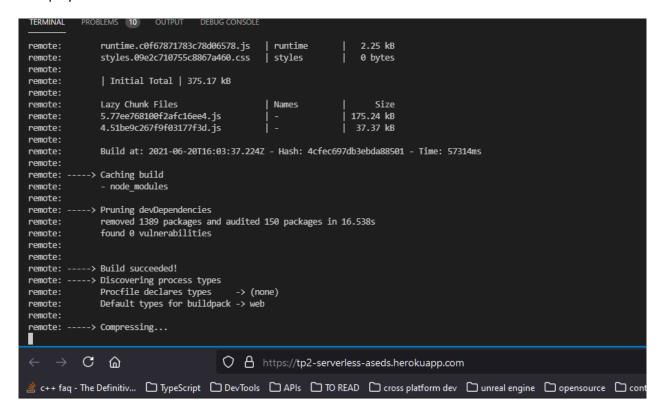
in c++ faq - The Definitiv... □ TypeScript □ DevTools □ APIs □ TO READ □ cross platform dev □ unreal engine □ opensource □ containers □ opensource □ opensource □ containers □ opensource □ opensource □ containers □ opensource □ containers □ opensource □ containers □ opensource □ opensou
```

6- Call cloud function from ANGULAR Project:

```
getData(){
   console.log("before call API");

return this._httpClient.get("https://us-central1-tp-serverless-ca2ce.cloudfunctions.net/getNarutoData").subscribe((dataFirestore: any) => {
        console.log("data", dataFirestore);
        this.data = dataFirestore;
   });
}
```

7- Deploy To heroku



Naruto SHIPPUDDEN

| image | name | caracteristique |
|-------|----------------|-----------------|
| | Naruto UZUMAKI | Kyubi |