

```

rules_version = '2';

service cloud.firestore {
  match /databases/{database}/documents {

    // This rule allows anyone with your Firestore database reference to view, edit,
    // and delete all data in your Firestore database. It is useful for getting
    // started, but it is configured to expire after 30 days because it
    // leaves your app open to attackers. At that time, all client
    // requests to your Firestore database will be denied.
    //
    // Make sure to write security rules for your app before that time, or else
    // all client requests to your Firestore database will be denied until you Update
    // your rules
    match /{document=**} { // This means that all the rules that we put here will apply to all the documents that we
    put in our database

      //allow read : if true; // This means that every one is allowed to read from our database all time
      allow write: if request.time < timestamp.date(2023, 8, 24); // This is used to set the time which they are allowed to
      write in our database

      // To authenticate getting the documents
      //allow list : if true; // This allows us to read from a collection of documents
      //allow get : if true; // This only allows us to read from a single document

      // WE COULD ALSO HAVE CREATE AND DELETE
      //allow create : if request.time < timestamp.date(2023,8,24); // This will only allow us to create a document just
      within the set time
      //allow delete : if request.time < timestamp.date(2023,8,24); // This is to delete
      //allow update : if request.time < timestamp.date(2023,8,24);

      // To check if the user is authenticated
      allow read : if request.auth != null; // This will only work if the user has been authenticated

    }

    // To make it allow it to apply to only a particular collection document only
    // *****
    // match /countries/{country} { // This will only allow for the "countries collection only"
    //   //allow read : if request.auth != null;

    // }
    // *****

    // match /notes/{note} { // This will only allow from the notes collection in firebase
    //   // allow read : if true;
    // }

    // To check the fields and attributes
    // match /notes/{note} { // This will consider all only the "note" document in that "notes" collection

      //allow read: if resource.data.type == "public"; // This is used to check the type of that notes document to see if
      the type is public
      //allow write : if request.resource.data.type == "secret"; // This is used to allow us to write in a document if the
      type is secret
      // But note that we have to make the simulation type for this one "update"

    // }
  }
}

```

```
// To consider all the documents in the "notes" collection
match /notes/{document=**} { // This is considering all the documents in our "notes" collection
  //allow read: if get(/databases/$(database)/documents/countries/germany).data.population > 800000000; // Note
that we also have to change the simulation type to "get"
  // This above is used to check if the population field of our country is greater than 800000000

  // To check if a particular document exists
  allow read: if exists(/databases/$(database)/documents/countries/germany); // This will check if the country
"germany" exists.

}

}
}
```