

# CREATING THE DATABASE



## REQUIREMENTS

**Specification of the Program:** Application that selects diseases based on symptoms.

**Data that needs to be stored in the Database:**

- Diseases
  - Needs to be „calculated“
  - Has SYMPTOMS (%)
  - Information it has to contain
    - Name
    - Description
    - Symptoms
    - Causes
    - Treatment
- Symptoms
  - Belongs to DISEASE(S)
  - Needs to be selected
  - Needs to be weighted
  - Information it has to contain
    - Name
    - Description
    - Causes
- Causes
  - Belongs to DISEASE(S) and SYMPTOM(S)
  - Needs to be selected
  - Information it has to contain
    - Name
    - Description

### Something to mention in the BT?

- Why did I chose Firebase?
- How does Firebase work?
- How to include Firebase to your Flutter-project
- Why create an admin-panel-application?
  - How?



## DESIGN

### ALL SYMPTOMS AND DISEASES ARE NoSQL | Firebase

Firebase stores data in Form of collections and documents.

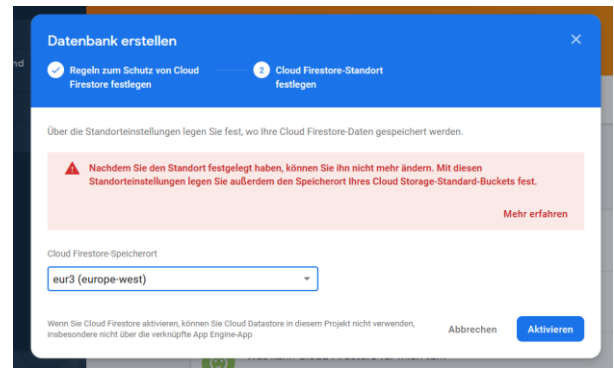
First I created the Database:

<https://console.firebase.google.com/u/0/project/symptomchecker-bachelorthesis/overview>

Speicherort: eur3

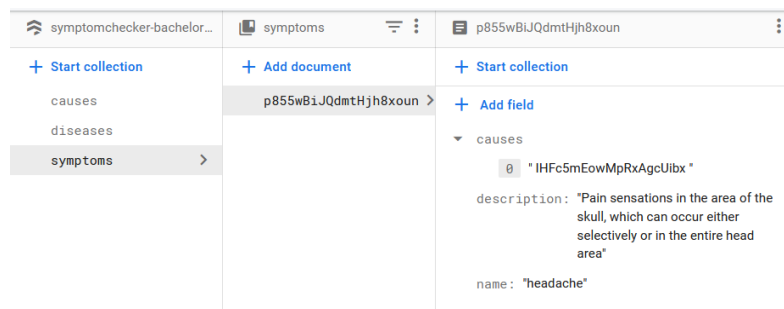
\*Description how to add a collection\*

\*Description how to add a document\*



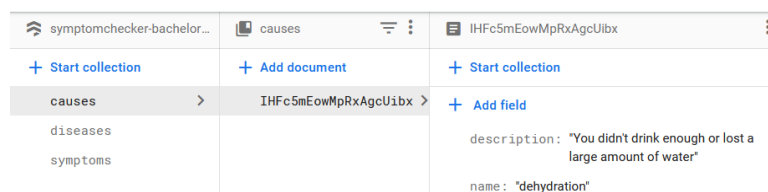
### *SYMPTOMS-COLLECTION*

This collection will store all Symptoms in form of documents. The Example below shows how such a document will look like



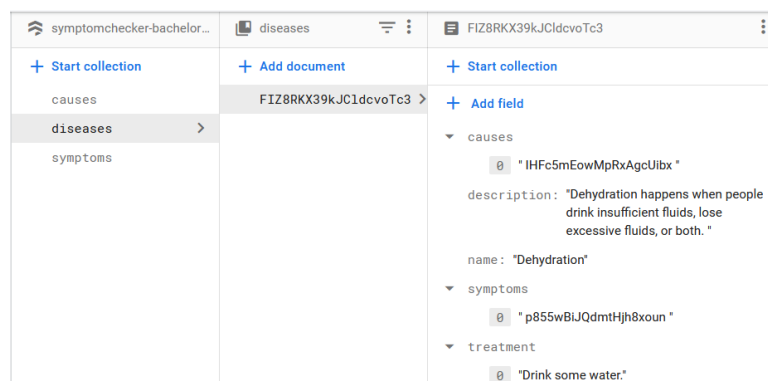
### *CAUSES-COLLECTION*

This collection will store all Causes in form of documents.



### *DISEASES-COLLECTION*

This collection will store all Diseases in form of documents.





*Note: also added the Database to the flutter project for the real application.*

- Create causes: Add symptoms and diseases for the cause
- Get Data into the Database