

This is what the database looks like  
I use authentication, firestore, realtime database

Firestore authentication when the iot is connected

Search by email address, phone number, or user UID					Add user	↺	⋮
Identifier	Providers	Created ↓	Signed In	User UID			
(anonymous)		Aug 3, 2024	Aug 3, 2024	uORsKq1Vg4abngEyOTzuMPF...			
(anonymous)		Aug 3, 2024	Aug 3, 2024	VNh76YDe0YTMfO4smb3rM...			
(anonymous)		Aug 3, 2024	Aug 3, 2024	AUPpmxGbAXULniF9O3UaDA...			
(anonymous)		Aug 3, 2024	Aug 3, 2024	5iaXbZc0uufRFNPjWNqRJsXL...			

Firestore database structure

The screenshot shows the Firestore database structure in the Google Cloud console. The breadcrumb path is `bins > moIT2wSuA6kP`. The left sidebar shows a collection named `bins` with a sub-collection `users`. The main panel shows the details of a document named `moIT2wSuA6kPTbTmOo41`. The document fields are:

- `binID`: "bin1"
- `createdAt`: August 1, 2024 at 4:20:21 PM UTC+8
- `location`: "cs1"
- `pickupDays`: An array containing "Monday", "Wednesday", and "Friday".
- `status`: "active"
- `updatedAt`: August 3, 2024 at 10:54:59 AM UTC+8

The realtime database structure

The screenshot shows the Realtime Database structure in the Google Cloud console. The URL bar shows the database path: `https://gps-liquid-level-database-default-rtdb.asia-southeast1.firebaseio.com`. The tree view shows the following structure:

- `bin1`
  - `Sensor`
    - `LevelWater`: 7.463
  - `Status`
    - `active`: true
  - `googlemaps`
    - `link`: "https://www.google.com/maps?q=3.072300,101.499817"
  - `gps`
    - `latitude`: 3.0723
    - `longitude`: 101.49982
- `bin2`
  - `Sensor`
  - `googlemaps`
  - `gps`
  - `status`