

Nama: Fauzan Ramadhan Harahap

NIM: 231110937

Kelas: IF-A Pagi

## Tugas Praktek M-09 (Firestore)

2 Digit Angka terakhir NIM = 37 (Angka Prima)

The screenshot shows the Firebase Authentication console. At the top, there is a message: "The following Authentication features will stop working when Firebase Dynamic Links shuts down soon: email link authentication for mobile apps, as well as Cordova OAuth support for web apps." Below this is a search bar and a button to "Add user". The main area is a table with columns: Identifier, Providers, Created, Signed In, and User UID. Three users are listed:

Identifier	Providers	Created	Signed In	User UID
tes@gmail.com	Email	Nov 19, 2025	Nov 19, 2025	ViB3p7FKjCdq6FxQL77ih0Mt...
janrr1703@gmail.com	Google	Oct 28, 2025	Oct 29, 2025	vvs2UIUQnbell9L0wkSNJq4K...
fauzan@gmail.com	Email	Oct 28, 2025	Nov 19, 2025	ITqioYtaU8ghBeuDnVCvZONDNOM2

At the bottom, there are buttons for "Rows per page: 50", "1 – 3 of 3", and navigation arrows.

The screenshot shows the Firestore database interface. The path is "mahasiswa > ITqioYtaU8ghBeuDnVCvZONDNOM2". The document contains the following data:

```
ITqioYtaU8ghBeuDnVCvZONDNOM2
  + alamat: "Klambir V"
  + hobis:
    - 0: "Berenang"
    - 1: "Game"
  + nama: "Fauzan Ramadhan"
  + riwayat:
    - 0:
      + jenis: "Organisasi"
      + keterangan: "Kadiv BITS 2025"
    - 1:
      + jenis: "Magang"
      + keterangan: "Mikro"
    - 2:
      + jenis: "Organisasi"
      + keterangan: "Osis 2019"
```

Soal 1.

1. Buat fitur **Login & Register** menggunakan **Firebase Authentication (Email & Password)**.
2. Setelah pengguna login, ambil **userID / authID** dari Firebase Auth.
3. Gunakan **userID** tersebut sebagai **documentID** untuk data mahasiswa pada Firestore.

Nama: Fauzan Ramadhan Harahap

NIM: 231110937

Kelas: IF-A Pagi



```
1 Future<Map<String, dynamic>?> loadProfil(String uid) async {
2     try {
3         final doc = await _firestore.collection("mahasiswa").doc(uid).get();
4
5         if (!doc.exists) return null;
6
7         final data = doc.data() ?? {};
8
9         return {
10            "nama": data["nama"] ?? "",
11            "alamat": data["alamat"] ?? "",
12            "tanggal_lahir": data["tanggal_lahir"] is Timestamp
13                ? (data["tanggal_lahir"] as Timestamp).toDate()
14                : null,
15            "hobi": data["hobi"] is List
16                ? List<String>.from(data["hobi"])
17                : <String>[],
18            "riwayat": data["riwayat"] is List
19                ? (data["riwayat"] as List).map((item) {
20                    return {
21                        "jenis": item["jenis"]?.toString() ?? "",
22                        "keterangan": item["keterangan"]?.toString() ?? "",
23                    };
24                }).toList()
25                : <Map<String, String>>[],
26        };
27    } catch (e) {
28        throw Exception("Gagal memuat data: $e");
29    }
30}
```

Keterangan: UID diambil dan dijadikan sebagai nama document

Buat **form input profil** dan simpan ke Firestore dalam struktur:

Collection: mahasiswa, Document: userID (dari Auth), Fields:nama: string, alamat: string, tanggal\_lahir: timestamp, hobi: array of string (multi value), riwayat: array of map (multi value, misal: sekolah, organisasi, pekerjaan)

## Berikut Nama Field Beserta Tipe Data-nya

Nama:

nama: "Fauzan Ramadhan"

(string)  

Nama: Fauzan Ramadhan Harahap

NIM: 231110937

Kelas: IF-A Pagi

Alamat:

alamat: "Klambir V"

(string)



Tanggal\_Lahir:

tanggal\_lahir: January 1, 2005 at 12:00:00 AM UTC+7

(timestamp)



Hobi:

▼ hobi

(array)



0 "Berenang"

1 "Game"

nama: "Fauzan Ramadhan"

0 "Berenang"

(string)



Riwayat:

▼ riwayat

(array)



▼ 0

jenis: "Organisasi"

keterangan: "Kadiv BITS 2025"

▼ 1

jenis: "Magang"

keterangan: "Mikro"

▼ 2

jenis: "Organisasi"

keterangan: "Osis 2019"

▼ 0

(map)



jenis: "Organisasi"

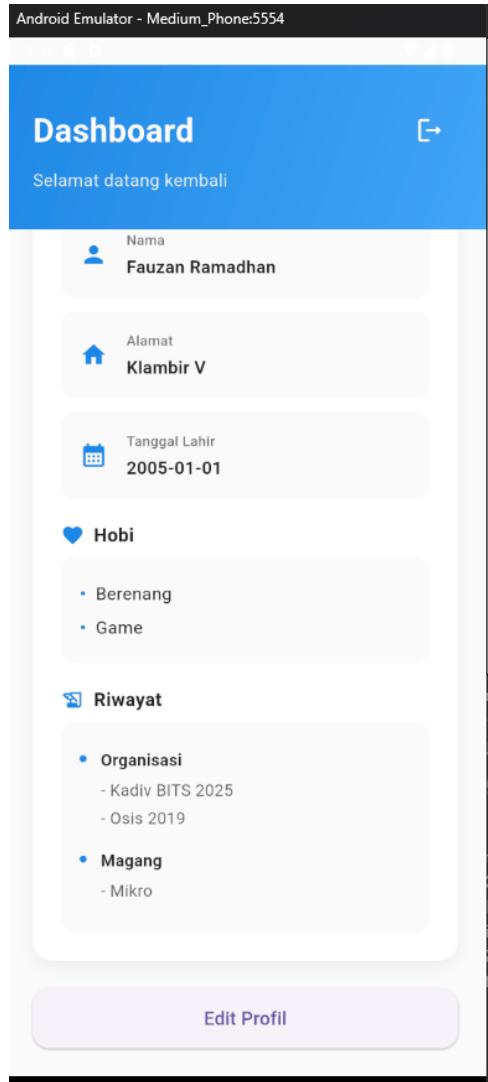
keterangan: "Kadiv BITS 2025"

Nama: Fauzan Ramadhan Harahap

NIM: 231110937

Kelas: IF-A Pagi

Hasil:



Program: [Pengumpulan M09](#)