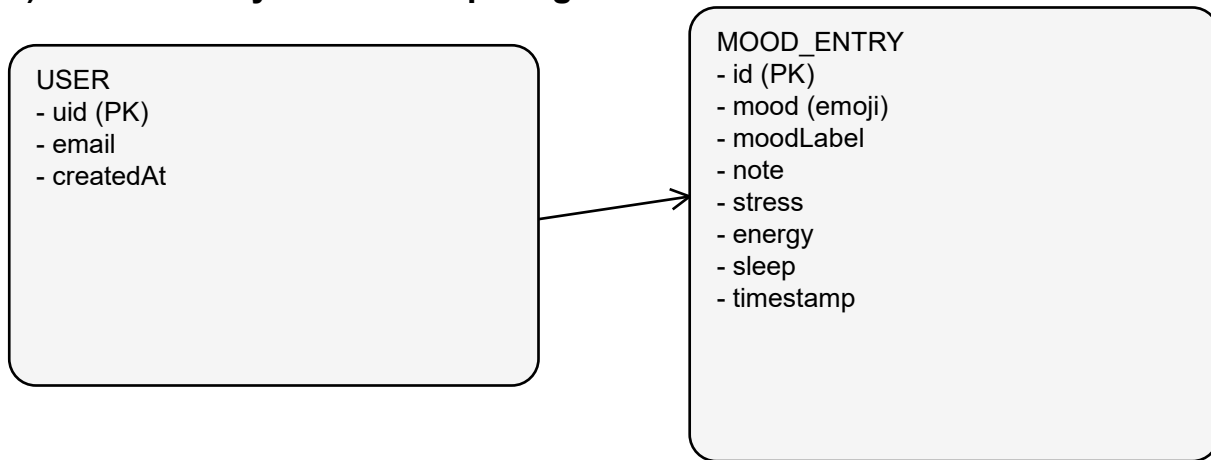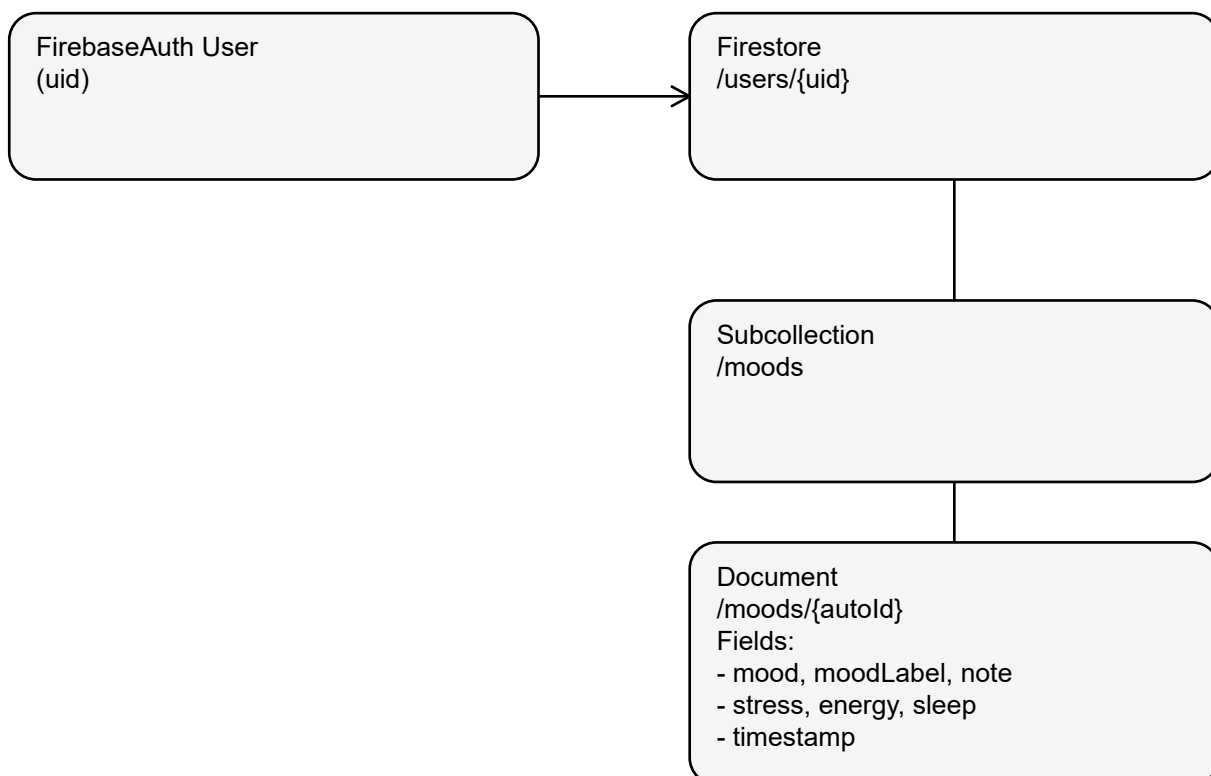# MoodLens Architecture Documentation

Includes ERD, DRD (Firestore structure) and Complete User Journey / Flow.

1) ERD — Entity Relationship Diagram

USER
- uid (PK)
- email
- createdAt

MOOD_ENTRY
- id (PK)
- mood (emoji)
- moodLabel
- note
- stress
- energy
- sleep
- timestamp

2) DRD — Data Relationship Diagram (Firestore Structure)

FirebaseAuth User
(uid)

Firestore
/users/{uid}

Subcollection
/moods

Document
/moods/{autoId}
Fields:
- mood, moodLabel, note
- stress, energy, sleep
- timestamp

MoodLens Architecture Documentation

3) Complete User Journey / Flow

```
App Launch ──> Login Screen ──> Forgot Password
                    │ Forgot?          │
                    │ No account →     ▼
                    ▼             Reset Email Sent
                 Sign Up
                    │
                    │ Success
                    ▼
Logout <── Home Screen ──> Habits Screen
              │
              ▼
Check-in Screen ──> Save to Firestore ──> History Screen
                      Save success →
```