Réflexion durant quelques secondes

Here’s a concise technical overview of your **konnaxion\_db** (PostgreSQL 15) schema—focusing on the Ethikos (“home\_” schema) module and its core dependencies—so you can communicate clearly about its design, conventions, and key pieces:

## 1. Environment & Global Conventions

* **Engine & Extensions**
  + PostgreSQL 15, encoding **UTF8**.
  + **pg\_trgm** enabled for fast fuzzy searches (e.g. on tag/name columns).
  + TimescaleDB support is prepared but hypertables are not yet activated.
* **Naming & Organization**
  + **snake\_case** throughout.
  + Tables and objects prefixed by “app” schema:
    - **core\_** → auth/profile
    - **home\_** → Ethikos (debate arena)
    - (…plus many other schemas for search, AI, ekoh, etc.)
* **Audit & Soft-Delete**
  + Nearly every table has these four columns:
    - created\_at, updated\_at (timestamps)
    - is\_deleted (boolean flag)
    - deleted\_at (nullable timestamp)
  + Application logic must always filter is\_deleted = false.

## 2. Core Authentication (core\_customuser)

| Column | Type | Notes |
| --- | --- | --- |
| **id** | BIGSERIAL PK |  |
| username | VARCHAR(150) UNIQUE NOT NULL |  |
| password | VARCHAR(128) NOT NULL | Django-style hash |
| email, first\_name, last\_name | VARCHAR | NOT NULL |
| is\_active, is\_staff, is\_superuser | BOOLEAN | Defaults per Django conventions |
| date\_joined | TIMESTAMP WITH TIME ZONE NOT NULL |  |
| language\_preference | VARCHAR(10) NOT NULL DEFAULT ‘en’ |  |
| **Audit & Soft-Delete** |  |  |

* **Indexes** on PK and (username).
* Used as FK target for **created\_by\_id**, vote records, messaging, etc.

## 3. Ethikos Module (schema ****public****, tables home\_\*)

### 3.1. Debate Categories (home\_debatecategory)

| Column | Type | Notes |
| --- | --- | --- |
| **id** | BIGSERIAL PK |  |
| name | VARCHAR(255) UNIQUE NOT NULL |  |
| created\_at, updated\_at | TIMESTAMP WITHOUT TIME ZONE NOT NULL DEFAULT now() |  |
| is\_deleted | BOOLEAN NOT NULL DEFAULT false |  |
| deleted\_at | TIMESTAMP WITHOUT TIME ZONE |  |

* **PK** on id; **UK** on name.

### 3.2. Response Formats (home\_responseformat)

| Column | Type | Notes |
| --- | --- | --- |
| **id** | BIGSERIAL PK |  |
| name | VARCHAR(50) UNIQUE NOT NULL | e.g. 'binary', 'scale\_5' |
| description | TEXT |  |
| created\_at, updated\_at | TIMESTAMP WITHOUT TIME ZONE NOT NULL DEFAULT now() |  |
| is\_deleted | BOOLEAN NOT NULL DEFAULT false |  |
| deleted\_at | TIMESTAMP WITHOUT TIME ZONE |  |

* **PK** on id; **UK** on name.

### 3.3. Debate Topics (home\_debatetopic)

| Column | Type | Notes |
| --- | --- | --- |
| **id** | BIGSERIAL PK |  |
| debatecategory\_id | BIGINT FK → home\_debatecategory | ON DELETE SET NULL |
| responseformat\_id | BIGINT FK → home\_responseformat | ON DELETE SET NULL |
| created\_by\_id | BIGINT FK → core\_customuser | ON DELETE SET NULL |
| title | VARCHAR(255) NOT NULL | Unique per live, soft-deleted topics |
| description | TEXT |  |
| is\_active | BOOLEAN NOT NULL DEFAULT true | Topic open for debate |
| created\_at, updated\_at | TIMESTAMP WITH TIME ZONE NOT NULL | (inconsistent with other tables; TZ) |
| is\_deleted | BOOLEAN NOT NULL DEFAULT false |  |
| deleted\_at | TIMESTAMP WITH TIME ZONE |  |

* **PK** on id.
* No built-in uniqueness on title—enforced in script via NOT EXISTS inserts.

## 4. Key Indexes & Performance

* **BTREE** on all PKs and FKs (auto-created).
* **GIN + pg\_trgm** planned on high-volume text fields (e.g. tag names).
* Future: convert stats tables to hypertables under TimescaleDB.

## 5. Deployment & Migration Notes

* **Ownership**: DDL must be run as the table owner (or superuser) when altering existing tables.
* **Scripting**: Break inserts into multiple smaller scripts (dbethikos1.sql … dbethikos4.sql) to avoid timeouts and ownership errors.
* **Populate**: Use psql -v ON\_ERROR\_STOP=1 to fail fast on errors, and $env:PGPASSWORD (PowerShell) to supply credentials without embedding them in history.

### How to Talk About It

* **“home\_” schema** = Ethikos debate-arena.
* **Soft-delete everywhere**: “remember to always filter is\_deleted = false in queries.”
* **Join paths**:
  1. **Categories** → 2. **Formats** → 3. **Topics** → (later) **Sessions**, **Arguments**, **Votes**.
* **Core users** power creation and participation—FKs back to core\_customuser.
* **Consistency**: note small TZ vs non-TZ mismatch that can cause confusion in timestamp comparisons.

This should give you all the structural talking points and the “why/how” behind each piece when you discuss or extend the database.