

Modèle de données

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« Dernière mise à jour : 2026-05-10

SQLite (Drizzle ORM)

Schéma : `src/schema.ts`. Migrations : `migrations/*.sql` + meta JSON.

Diagramme entité-relation

```
erDiagram
    users ||--o{ games : "addedBy"
    users ||--o{ questions : "userId"
    games ||--o{ games : "parentGameId (extensions)"
    games ||--o{ questions : "gameId"

    users {
        text id PK
        text username UNIQUE
        text passwordHash "argon2"
        text email
        text role "admin/user/pending"
        bool canAddGames
        text createdAt
    }

    games {
        text id PK
        text name
```

```

text parentGameId FK "nullable"
bool isExtension
text contentType "base/extension/advanced_rules/faq"
text rulesLanguage "fr/en"
text sourceFile "/app/pdfs/<slug>-<ts>.pdf"
int chunksCount
text ingestStatus "idle/running/done/error/scheduled"
text ingestScheduledAt
text addedBy FK
text createdAt
int bggId "nullable"
text imageUrl
text bggType
text bggMechanics "JSON array"
text bggCategories "JSON array"
text hasCardDatabase "magic-cards/lorcana-cards/etc."
}
questions {
text id PK
text userId FK
text gameId FK
text question
text answer "nullable, injecté post-génération"
real bestScore
text createdAt
text vote "up/down/null"
text feedbackComment
text diagnostics "JSON blob"
}

```

Migrations livrées

Fichier	Apport
0000_new_forge.sql	Initial : users, games, questions
0001_vellum_bgg.sql	Colonnes BGG (bggId, imageUrl, mechanics, categories)
0002_noisy_the_initiative.sql	ingestScheduledAt
0003_pale_rhodey.sql	contentType, isExtension, parentGameId, rulesLanguage
0004_sharp_the_captain.sql	hasCardDatabase

Fichier	Apport
0005_pretty_lady_bullseye.sql	bggType
0006_goofy_terror.sql	ingestStatus enum complet
0007_clever_spectrum.sql	Schéma conflicts (extension detection)
0008_panoramic_rocket_raccoon.sql	Contextual cache support
0009_daffy_tana_nile.sql	Feedback (vote, feedbackComment)
0010_daily_sentinels.sql	Diagnostics RAG (JSON blob)

Workflow migration :

```
# 1. Modifier src/schema.ts
# 2. Générer la migration
npm run db:generate
# 3. Appliquer
npm run db:migrate
```

Qdrant (Vector DB)

Collections

- `rules_<slug>` : une par jeu (chunks de règles + forums BGG)
- `magic-cards` : cartes MTG normalisées
- `lorcana-cards` : cartes Lorcana
- `flesh-and-blood-cards` : cartes FAB
- `riftbound-cards` : cartes Riftbound
- `terraforming-mars-cards` : cartes TM
- `ark-nova-cards` : cartes Ark Nova

Vecteurs

- **Dense** : 1024 dims (TEI bge-m3)
- **Sparse** : BM25 natif Qdrant

Payload des chunks règles (`rules_<slug>`)

```

{
  // Identité
  chunk_id: string,
  source_file: string,          // chemin PDF
  source_kind: 'pdf' | 'forum',

  // Hiérarchie
  hierarchy_path: string[],     // ["Chap 3", "Section 2"]
  hierarchy_level: number,
  section_title: string,
  page_start: number,
  page_end: number,

  // Sémantique
  is_extension: boolean,
  is_advanced_rules: boolean,
  is_forum_chunk: boolean,
  game_name: string,
  game_id: string,

  // Conflit (extensions seulement)
  conflict_type: 'replaces' | 'modifies' | 'extends' | null,
  conflict_base_chunk_id: string | null,
  conflict_base_page: number | null,
  conflict_summary: string | null,

  // Texte
  text: string,                // chunk brut
  contextual_text: string,     // 1-2 phrases LLM préfixées
}

```

Payload des chunks cartes (par TCG, variantes)

Champs communs : `id`, `name`, `name_en`, `set_label`, `rarity`, `type`, `image_url`, `text` (effet/ability).

Champs MTG : `card_mtg_color_identity`, `card_mtg_legal_formats`, `card_mtg_layout`, `mana_cost`, `cmc`, faces (double-face).

Champs FAB : `card_legal_heroes`, `pitch`, `talents`, `class`, `intelligence`, `defense`.

Champs Riftbound : `card_domains`, `energy`, `card_type` (Unit/Champion Unit/Spell/Gear/Battlefield/Legend/Rune), `might`.

Champs Lorcana : `ink`, `lore`, `willpower`, `strength`, `card_type`.

Champs TM : `cost`, `victory_points`, `tags[]`, `requirements`.

Champs Ark Nova : `category` (animal/sponsor), `latin_name`, `size`, `conservation_point`.

Payload des chunks méta ([META])

```
{
  meta_type: 'tier' | 'tournament_deck' | 'forum_thread',
  meta_format: string,           // ex: 'standard', 'classic-constructed', 'spiritforged'
  meta_set: string,             // ex: 'BLB' (17Lands)
  meta_source: string,         // '17lands' / 'mtggoldfish' / 'mobalytics' / 'fabtcg'
  meta_archetype: string,
  meta_placement: number,      // 1-N pour les top 8s
  meta_date: string,           // ISO
  ...
}
```

Filesystem

```
/app/data/                                # Volume persistant
├─ database.db + .db-shm + .db-wal        # SQLite (WAL mode)
├─ card-images-cache/                    # Cache sharp-resize
├─ magic-cards/                          # Bulk Scryfall + cards.json FR
├─ lorcana-cards/                        # LorcanaJSON FR + EN
├─ terraforming-mars-cards/
├─ ark-nova-cards/
├─ ocr-v1-<slug>.json                     # Cache OCR par jeu
├─ contexts-v2-<slug>.json                # Cache Contextual Retrieval B
├─ conflicts-v1-<slug>.json               # Cache détection conflits
└─ logs/server.log                       # Logger (rotation 50Mo / 30j)

/app/pdfs/                                # Volume persistant
```

— <slug>-<timestamp>.pdf	# PDF uploadé
— images/<slug>/page-XX.png	# PNG rendus 300 DPI
/app/ssh/	
— id_ed25519	# Clé SSH oracle (dédiée)

Revision #1

Created 2026-05-10 15:19:58 UTC by thymon

Updated 2026-05-10 15:19:58 UTC by thymon