

API Implementation Plan - New Domains

Goal Description

Design and implement the data models and APIs for **Entrance Exams** (extended), **Scholarships**, and **Infrastructure**.

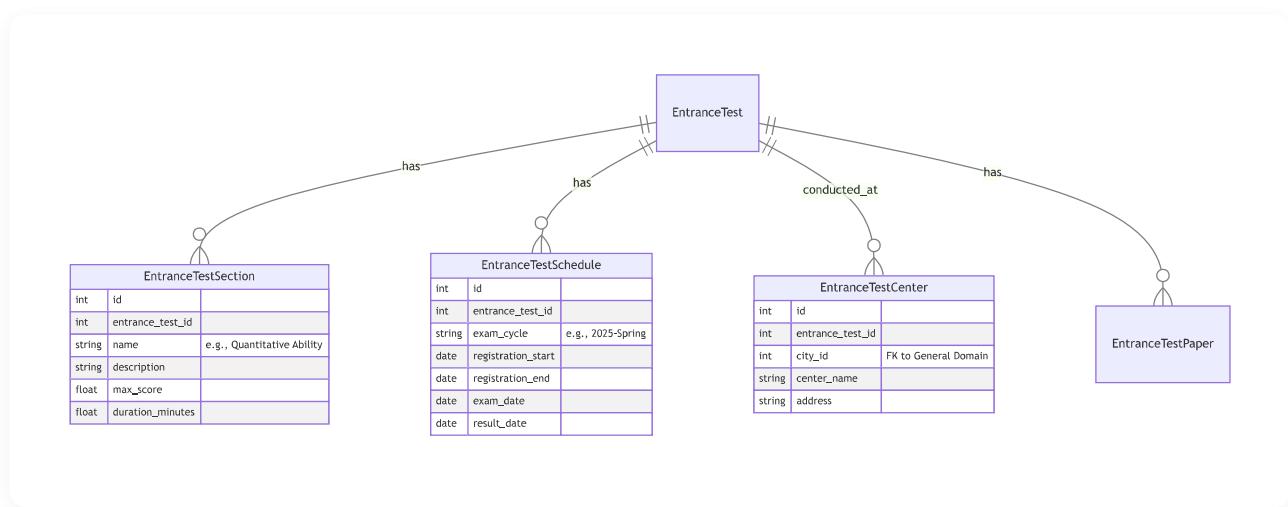
User Review Required

[!IMPORTANT] **Entrance Exams Refactoring:** I propose moving existing EntranceTest model from academics.py to a new entrance_exam.py module for better domain isolation. This will require updating existing references.

1. Entrance Exams Domain

Goal: Expand the existing simple test definition to include structure, scheduling, and centers. **Effort Estimate:** Medium (due to refactoring and relationships)

Proposed Schema



Changes

[NEW] [models/entrance_exam.py](#)

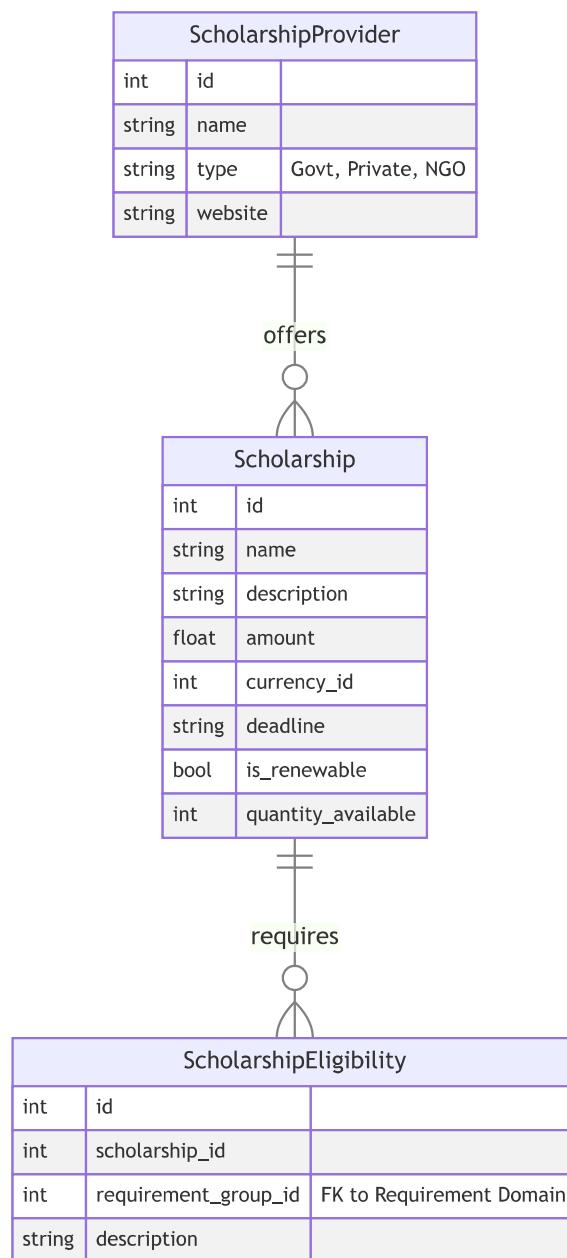
- Move EntranceTest here.
- Add EntranceTestSection, EntranceTestSchedule, EntranceTestCenter.

2. Scholarships Domain

Goal: Create a system to track financial aid opportunities, linked to eligibility criteria.

Effort Estimate: Medium

Proposed Schema



Changes

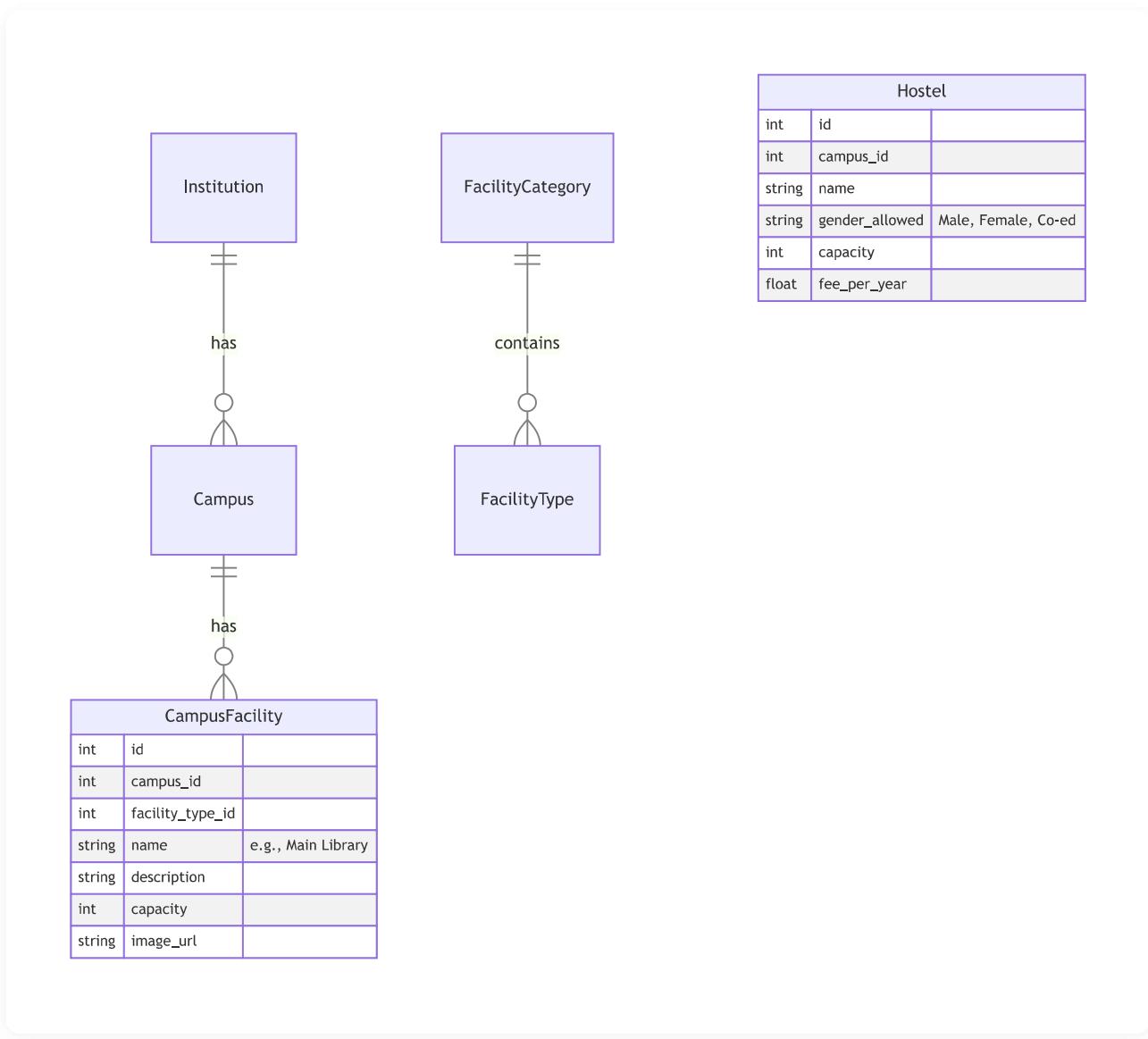
[NEW] [models/scholarship.py](#)

- Scholarship, ScholarshipProvider, ScholarshipEligibility.

3. Infrastructure Domain

Goal: Detail the physical and digital facilities of institutions. **Effort Estimate:** High (Many entity types linked to Institution)

Proposed Schema



Changes

[NEW] [models/infrastructure.py](#)

- Campus (linked to Institution)
- FacilityCategory (e.g., "Sports", "Labs")
- FacilityType (e.g., "Swimming Pool", "Chemistry Lab")
- CampusFacility (The actual instance)
- Hostel