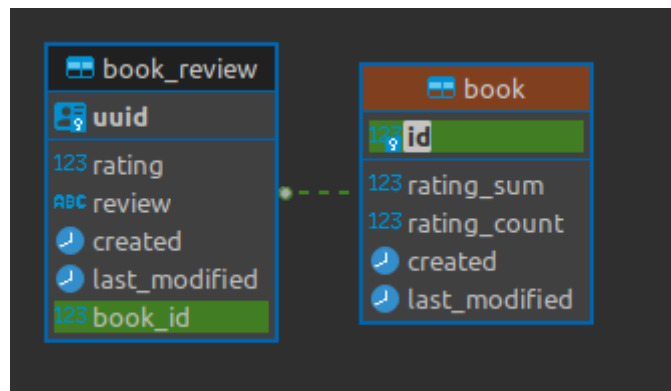


Thought Process

To meet these challenge requirements, I created a Django application with the specified endpoints.

- Part 1: Searching for books
 - This part was very simple. I just requested the data from the gutendex API and “filtered” it with a serializer to return just the desired data.
- Part 2: Reviewing a book
 - For this part, I created two models, one to store the review data (book_id, rating, review) and the other one to store rating_sum and rating_count.
 - The book table is updated every time that a book review is posted, in order to keep rating_sum and rating_count values up to date, which are important to meet part 3 requirements.



- Part 3: Getting details of a specific book
 - To avoid having to go through the entire `book_review` table summing each rating value and dividing by the total number of rows in order to get the average rating value, the `book` table already provides `rating_sum` and `rating_count` values, so the average rating is obtained by dividing `rating_sum` by `rating_count`.
 - Review values are obtained by selecting in `book_review` table, passing `book_id` as a filter
 - The other details are requested from gutendex API

High-level System Diagram

