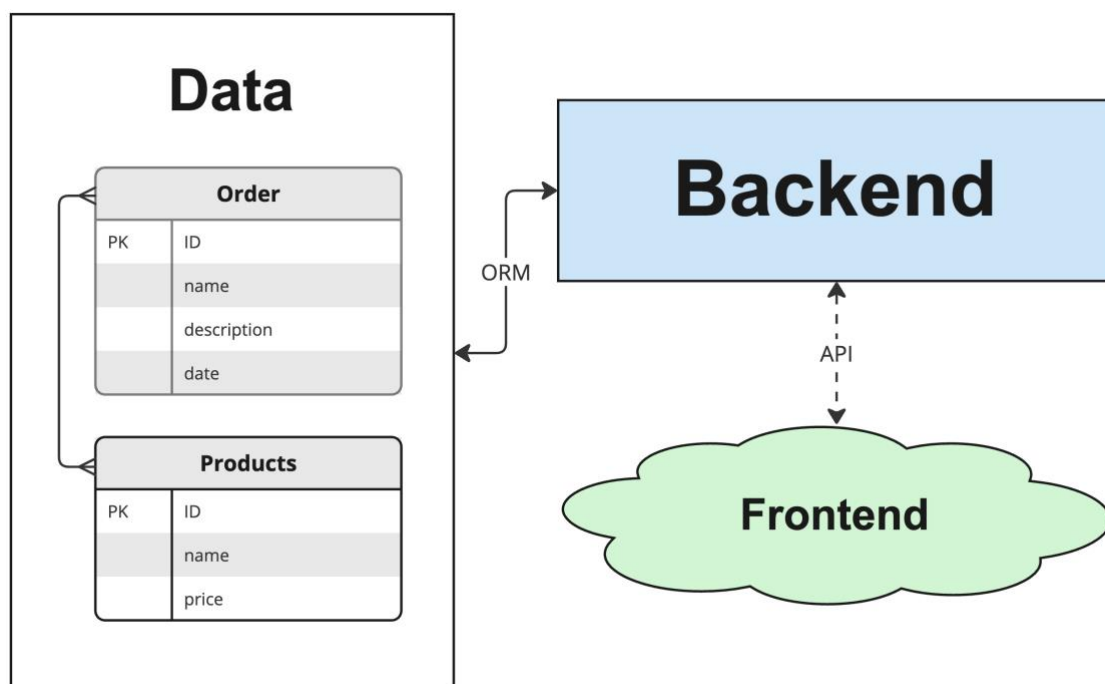


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TECHNICAL TEST

Context

The XXX team needs a system to monitor and manage daily user orders. Your task is to design and implement the backend according to the specified requirements.



Assumptions

Assume there is a frontend that interacts with your APIs and implements the following functionalities:

1. Order viewing page with filters for date and search by name and description.
2. Detailed order view with associated products.
3. Editing or deleting an order.

Objectives

1. **Design and develop a RESTful backend** using Python and a web framework such as Django, FastAPI, or similar.
2. **Use an ORM** like Django ORM, SQLAlchemy, or similar for database management.
3. Configure the project to be runnable in a **containerized environment** (e.g., Docker).
4. **Write tests and documentation** to ensure code quality.

Delivery Instructions

- **Git Repository (nice to have):** Create a Git repository and include all necessary instructions to start the project (README.md).
- **Project Setup:** The README.md should contain detailed instructions for setting up the development environment, running the project, and executing tests.
- **Docker:** Include the necessary Docker files and ensure the entire setup can be executed (e.g., docker compose).
- **Testing:** Provide test coverage and include instructions on how to run the tests.

Evaluation

Your solution will be evaluated based on the following criteria:

- Correctness and completeness of the RESTful API implementation.
- Proper and functional setup configuration.
- Code quality and adherence to design principles and best practices in web development.
- Coverage and quality of tests.
- Documentation and clarity of instructions provided.

Purpose of the Test

The aim of this test is not only to assess your technical skills but also to give you the opportunity to express yourself freely. We want to see how you approach a real project, organize your work, and solve problems.

Good luck and do your best!