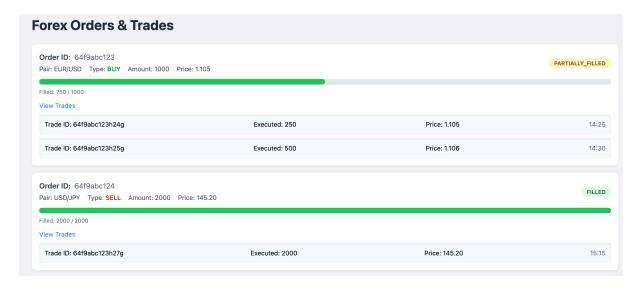
Server Interview - Orders & Trades

This module handles orders with nested trades and real-time updates for a Forex trading system.

The **screenshot** illustrates how orders and trades should appear use it as the basis for your schema and structure design.



Requirements

Orders

- Contain details such as pair, type, amount, price, status.
- · Have a list of trades beneath them.
- Support status progression: PENDING → PARTIALLY_FILLED → FILLED

Trades

- Represent individual executions (amount, price, timestamp).
- Adding trades updates the order's **filled progress** and **status** automatically.

Business Rules

- The sum of all executed trades must not exceed the order's amount.
- If total filled < amount → PARTIALLY_FILLED.
- If total filled = amount → FILLED.
- If adding a trade would overshoot → reject (400).

API Endpoints (JWT required)

Method	Path	Purpose
POST	/orders	Create a new order
POST	/orders/:id/trades	Add a trade (updates order status automatically)

Simulation (Swagger/Postman)

- Create an order (e.g., BUY EUR/USD 1000).
- Add trades (e.g., 250 + 500 executed).
- Verify that the order status updates automatically (PARTIALLY_FILLED , then FILLED).

Deliverables

- Implement Orders module.
- Add API endpoints + validation.
- Test simulation with Swagger/Postman.