

Senior Angular Engineer

1 Hour Live Coding Interview Task

Business Scenario

You are building an internal Payment Operations Console where support agents monitor transactions in near real time, filter failed payments, and inspect technical details for troubleshooting.

API Contract

Endpoint	Description
GET /api/transactions	Filtered and sorted list
GET /api/transactions/:id	Transaction details
Latency	400 to 1200 ms simulated
Error Rate	15 percent list, 25 percent details

Core Functional Scope (60 minutes)

- Transactions list with loading, error and retry states
- Status filter and debounced text search
- Sorting by creation date
- Row selection opens a details panel
- Independent request handling for list and details
- Cancel in flight requests on state change

Technical Constraints

Angular	Latest version, standalone only
State	Signals for UI state and computed values
Async	RxJS for orchestration and cancellation
Control Flow	@if, @for, @switch
Typing	Strictly typed DTO to domain mapping

Evaluation Dimensions

- Architecture and separation of concerns
- Reactive thinking
- State modeling
- Performance awareness
- Error handling and UX
- Type safety