

# 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