Zaqathon "Smart Order Intake"

The Challenge:

This system takes in as input raw emails from customers (forwarded, messy, or multi-threaded) and automatically:

1. Extracts the purchase request from emails received (connected to email). Identify SKUs (products) requested, quantities, and delivery requirements from unstructured email content.
2. Validates the request. Check against the provided product catalog for:
   - SKU existence
   - MOQ (Minimum Order Quantity)
   - Inventory availability
3. Output a JSON with validated SKUs, quantity, customer notes, and delivery preference
4. Flags any issues. If something is wrong and proposes solutions (e.g. SKU doesn't exist, minimum order quantity not met, suggests lumping orders together to meet quantity requirements, suggest a valid replacement)
5. Bonus:
   - User interface to approve/edit replacements
   - Confidence scores per extracted field
   - Reusable code modules (clean architecture)
   - Operator/BrowserUse agent that takes the JSON file and fills sales order form PDF

Requirements:

- Inputs are linked from the email service directly
- SKU (product) catalog (*shared*)
- Output: JSON object of clean order data + basic UI for human review experience

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You Will Be Provided:

- A mock product catalog (catalog.csv) with SKUs, descriptions, MOQ, price, stock and more
- 5 sample emails in raw .txt form with messy formatting and conversation threads

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What We're Evaluating:

- Your approach to dealing with messy inputs
- The correctness and UX of the structured output
- Creativity in fallback or substitution logic
- Speed and scrappiness of implementation