



KEVIN QUON

# Agentic Swarm for Purchase Order Handling

## Empowering Businesses via Multi-Agent Collaboration

**GOAL:** Demonstrating how agents can be coordinated to handle business processes, end-to-end

**This demo illustrates a proof-of-concept B2B Agentic AI workflow built on an agentic swarm architecture.** Starting from an incoming email, the system interprets order details and matches products, checks inventory, and computes total costs of ordering with discounts. Specialized agents perform a variety of roles (order interpretation, logistics, accounting, etc), passing context to orchestrate decisions dynamically.

Designed to showcase efficiency and reasoning, this approach demonstrates how agentic AI can transform complex purchase order processes into intelligent, automated workflows, with potential applications across broader B2B operations.

### Highlights

- Agentic swarm architecture
- Multi-agent collaboration
- Context-first architecture
- Automated email interpretation
- End-to-End workflow orchestration

### ★ Key Features

- Multi-faceted data processing
- Workflow orchestration for submission and archiving
- Intelligent item extraction and line-item matching
- Dynamic purchase order generation
- Automated email interpretation

### 🔗 Applicable Use Cases

- Navigating complexity via intelligent AI reasoning
- Improving B2B operational efficiency
- Optimizing supply chains
- Assisting IT operations & incident response
- Processing healthcare or other complex data



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Engineering the Future with AI

## Strategic Focus Areas

### ▾ Frameworks & Playbooks

Codifying reusable architectures and best practices for consistent, scalable AI delivery.

### ▾ Security & Compliance

Embedding data security, model integrity, regulatory alignment, and safe prompt engineering into every stage of the AI lifecycle.

### ▾ Human-in-the-Loop AI

Designing workflows where AI accelerates analysis and automation, while human oversight and expert review ensure accuracy, reliability, and real-world relevance.

### ▾ Responsible AI & Ethics

Creating principles, reviews, and tooling that ensure AI is transparent, fair, and aligned with organizational values.

### ▾ Driving Value

Prioritizing high-impact opportunities, measuring ROI, and ensuring AI initiatives deliver meaningful business outcomes.

### ▾ Improving Predictability

Using techniques such as Spec-Driven Development to enhance model accuracy, reproducibility, and trustworthiness.

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