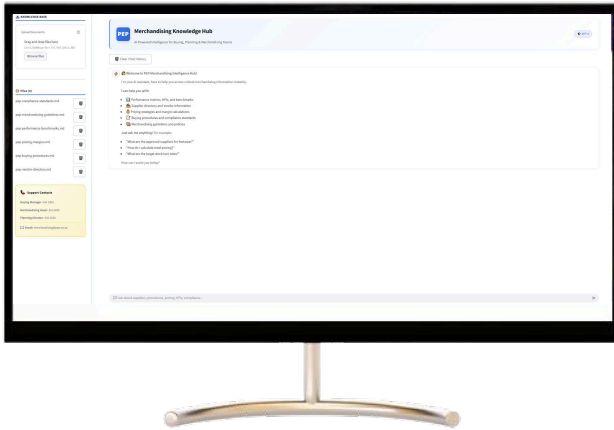# PEP Merchandising Intelligence Hub (Prototype)

RAG-Powered Knowledge Base for Merchandising, Planning & Buying.
Developer: Andile Michael Lwanga

The Problem: Merchandising teams spend hours searching through static PDFs for compliance codes, supplier details, and pricing rules.

The Solution: An internal RAG (Retrieval-Augmented Generation) system that delivers instant, cited answers from PEP's operational documents.

Key Capabilities:
- 📉 Markdown Strategy: Instant access to profit protection rules and approval hierarchies.
- 🚚 Supply Chain: Immediate retrieval of vendor lead times and payment terms.
- ✅ Compliance: Automated checks for ethical sourcing standards and PO requirements

Example Use Case 1: Supplier Lead Times & Order Cycle Management

🖥 **Example Interaction**

User: *"What is the usual delivery time for ABC Garments on school shirts?"*

✅ **System:**
- Shows delivery time (05-90 days)
- Lists payment terms
- Shares supplier performance notes from the directory

Merchandisers can plan purchases better and set realistic delivery expectations.

Example Use Case 2: Purchase Order (PO) Accuracy & Compliance

🖥 **Example Interaction**

User: *"Before approving a PO from a new supplier, what documents are required?"*

✅ **System:**
- List the ethical compliance forms
- Provides quality assurance test results
- Shows vendor onboarding documents
- Includes risk assessment notes

Reduced PO rework and fewer compliance escalations.

Live Demo: PEP Merchandising Hub · Streamlit