Take-Home Project: Presentation and Demo for Complex Purchase Order and Invoice Management

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Scenario Overview:

A multinational corporation is struggling with managing purchase orders, invoices, and goods received across a vast network of vendors and countries. The challenges include:

- **High Volume and Complexity:** Large transaction volumes with cross-country dependencies.
- **Disparate Systems:** Data is scattered across multiple systems, leading to poor visibility.
- **Chaotic Data Lake:** A previous vendor integrated all systems into a data lake but did not structure the data. Now, tens of thousands of documents are dumped daily into the data lake with no clear organization.
- **Skeptical Customer:** The customer is wary because the previous vendor failed. They want to see a demo using public data before giving access to their data lake to ensure this approach won't fail like the last one.

Objective:

Your task is to:

- **Deliver a working demo** that demonstrates:
    - **Live Demo of a Prototype:** Showcase a working prototype that ingests, classifies, and reconciles documents from a simulated data lake (e.g Google Drive). Feel free to use OpenAI Assistant to build the Demo.
    - **Actionable Insights:** Provide meaningful insights and reports relevant to procurement and finance teams.
- **Create a presentation:**
    1. **Describing the problem statement and value delivered by solving it**
    2. **Why Your Solution Will Succeed:** Convince the customer of your superior approach
    3. **Scalability and Reliability:** Demonstrate why the solution or our company can handle large volumes of data and is built to scale.

Please don't hesitate to use AI in any and all aspects of creating your solution - but own what you finally create, as your own.

Please utilise AI to create synthetic/mock data as needed.