Siebel Product Model Assistant – text in out

This Python program is a CLI-based assistant that helps create Siebel
products, price lists, promotions, and related entities. It uses Cohere's
LLM API to interpret user commands and LangGraph + LangChain tools for
structured actions.

Prerequisites

1. **Python 3.10+** installed.
2. **Cohere API key** (trial or paid)
   - Sign up here: https://cohere.ai
3. **Install required Python packages**:

```bash
pip install cohere
pip install langgraph
pip install langchain_core
pip install python-dotenv
```

4. **Create a `.env` file** in the project root with your Cohere API key:

COHERE_API_KEY=your_cohere_api_key_here

Running the Program

python siebel_pm_assist.py

You will see:

Siebel Product Model Assistant (type 'exit' or 'quit' to stop)
You:

Type your commands as natural language describing the Siebel entities to create.

The assistant will prompt you for **missing fields** if required parameters are not provided.

Sample Input & Output

Example 1: Creating a Product and Price List

Input:

Lets create a Siebel product named 'iPhone 16', add it to the price list
'NA pricelist' the price should be set to 100 USD

Output:

```
DEBUG LLM response: {'actions': [{'type': 'CREATEPRODUCT', 'name': 'iPhone
16'}, {'type': 'CREATEPRICELIST', 'name': 'NA pricelist', 'product':
'iPhone 16', 'price': '100', 'currency': 'USD'}]}
Sample REST request for product creation:
{
  "SWIProductIntegrationIO": {
    "ProductName": "iPhone 16",
    "ProductId": "c0820c2c-0ca6-46ab-8369-9450f25af42c"
  }
}
Sample REST request for Siebel price list item:
{
  "SWIISSPriceListItemIO": {
    "PriceListId": "NA pricelist",
    "ProductId": "c0820c2c-0ca6-46ab-8369-9450f25af42c",
    "Price": "100",
    "Currency": "USD"
  }
}
```

Example 2: Missing Field Prompting

Input:

```
Create a Siebel promotion
```

Output:

```
Please provide Promotion Name: SummerSale2025
Bot: Created promotion: SummerSale2025
```