PriceUpdaterBot - Telegram Chatbot Workflow Documentation

This document explains the workflow of the Telegram-based chatbot named "PriceUpdaterBot." The bot is designed to interact with users in a friendly manner and fetch product price information from the Supabase database. It categorizes user input into greetings, product/price lookup requests, or unrelated queries.

# Workflow Overview

The PriceUpdaterBot workflow consists of multiple nodes that handle user messages, determine intent, fetch product details, and respond back to the user. Below is a high-level flow:

1. User sends a message via Telegram.  
2. Message is captured by the Telegram Trigger node.  
3. The AI Agent categorizes the message into:  
 - Greeting/Casual Message  
 - Price Lookup/Product Query  
 - Unrelated/Other Messages  
4. Based on the category:  
 - Greetings → Sends a fun welcome message.  
 - Product Query → Extracts SKU/product name and searches Supabase.  
 - Unrelated → Sends a polite error message.  
5. If a valid SKU is found in Supabase → Sends price details to the user.  
6. If SKU not found → Sends a 'SKU Not Found' message.

# Node Descriptions

## Telegram Trigger

Captures incoming user messages from Telegram.

## AI Agent

Categorizes the message into Greeting, Price Lookup, or Unrelated.

## Process AI Response

Processes AI output and formats structured data such as chatId, userId, SKU, and response type.

## Is Welcome Message?

Checks if the message is a greeting/casual message.

## Send Welcome Message

Sends a friendly welcome response to the user.

## Is SKU Detected?

Checks if the message contains a valid SKU or product reference.

## Get Products from Supabase

Fetches all product records from the Supabase database.

## Filter Matching SKU

Matches the extracted SKU with product records in Supabase.

## If

Determines whether the SKU was found or not.

## Send Price Found

Sends product details (SKU, price, product name) to the user if SKU is found.

## Send SKU Not Found

Informs the user that the SKU was not found in the database.

## Send AI Response

Sends fallback AI responses for unrelated queries.

# Workflow Flow (Simplified)

Telegram Trigger → AI Agent → Process AI Response → [Is Welcome Message? → Send Welcome Message] OR [Is SKU Detected? → Get Products → Filter SKU → If → (Send Price Found / Send SKU Not Found)] OR [Send AI Response]

# Conclusion

The PriceUpdaterBot ensures a smooth and interactive way for clients to query product prices. It uses AI categorization for smart detection and Supabase for reliable product data retrieval. This workflow guarantees that users always receive clear, fun, and professional responses.