Stock Inventory Line Bot



Answer stock questions via LINE and update stock via Google Sheets.

frongwatcharapol.com May 14, 2025



1 Quick stock checks without backend access

2 User-friendly via LINE — familiar and widely adopted

Perfect for small retailers and fast-moving sales teams

Technology

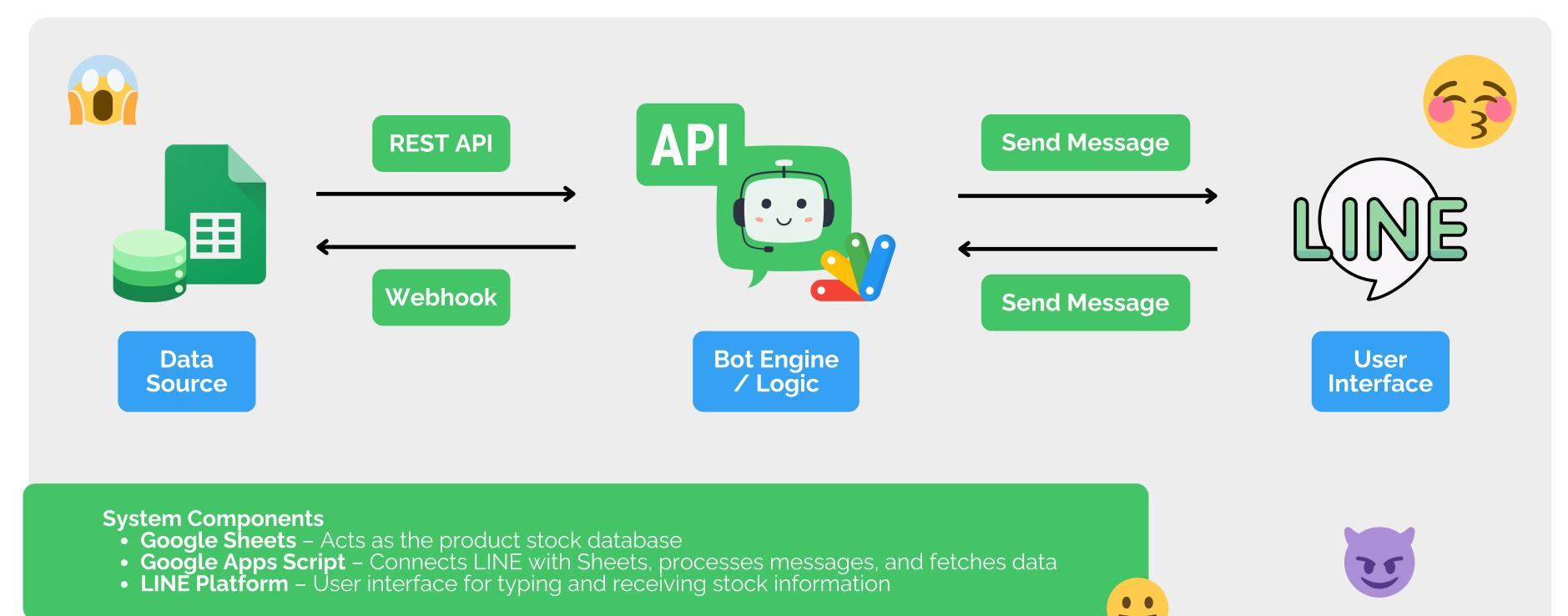
Free and scalable technologies

The goal of our project is to make technology accessible and practical for small businesses. By using free tools like **LINE Messaging API**, **Google Apps Script**, and **Google Sheets**, we enable users to access essential business information quickly — without the need for complex systems or additional costs.



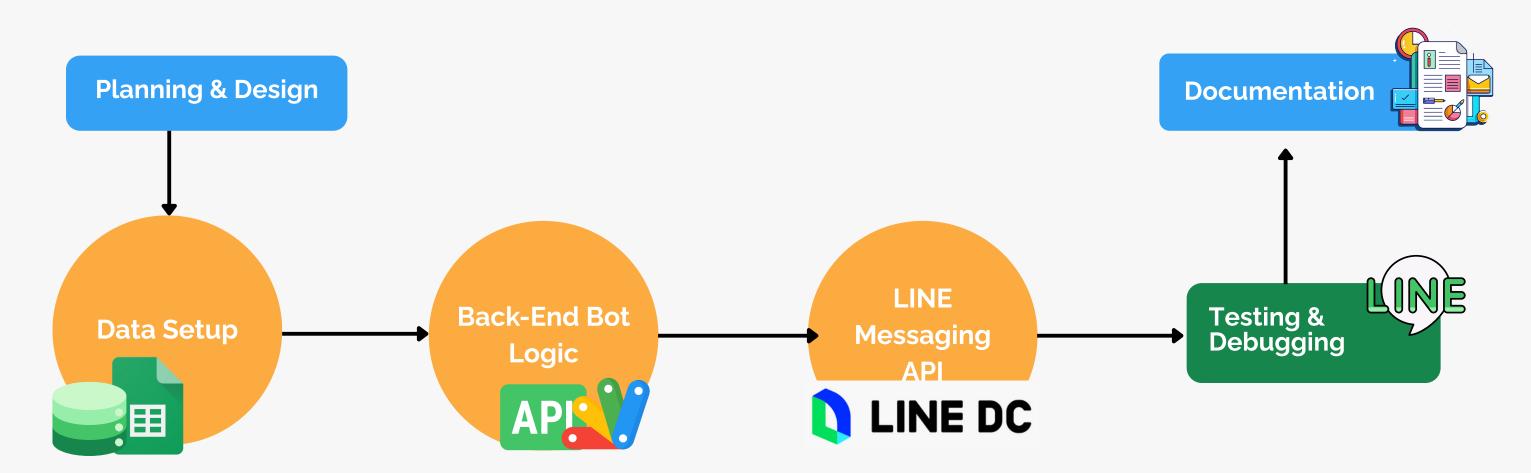
Workflow Diagram

Simple and practical — ready-to-use with minimal coding required.



Process

The development of this project involves 6 key steps as follows:



Development Process

- 1. System Planning
 - Define objectives and map the flow: LINE → Apps Script → Google Sheets
- 2. Database Setup
- Create a Google Sheet to store product names and stock quantities
- 3. Coding with Apps Script
- Receive message from LINE → Search data → Send reply message

4. LINE API Integration

Configure Webhook to connect LINE with Apps Script Web App

- 5. System Testing
- Test both successful and unsuccessful search responses
- 6. Documentation & Portfolio

Create workflow diagrams and publish a summary article on personal website

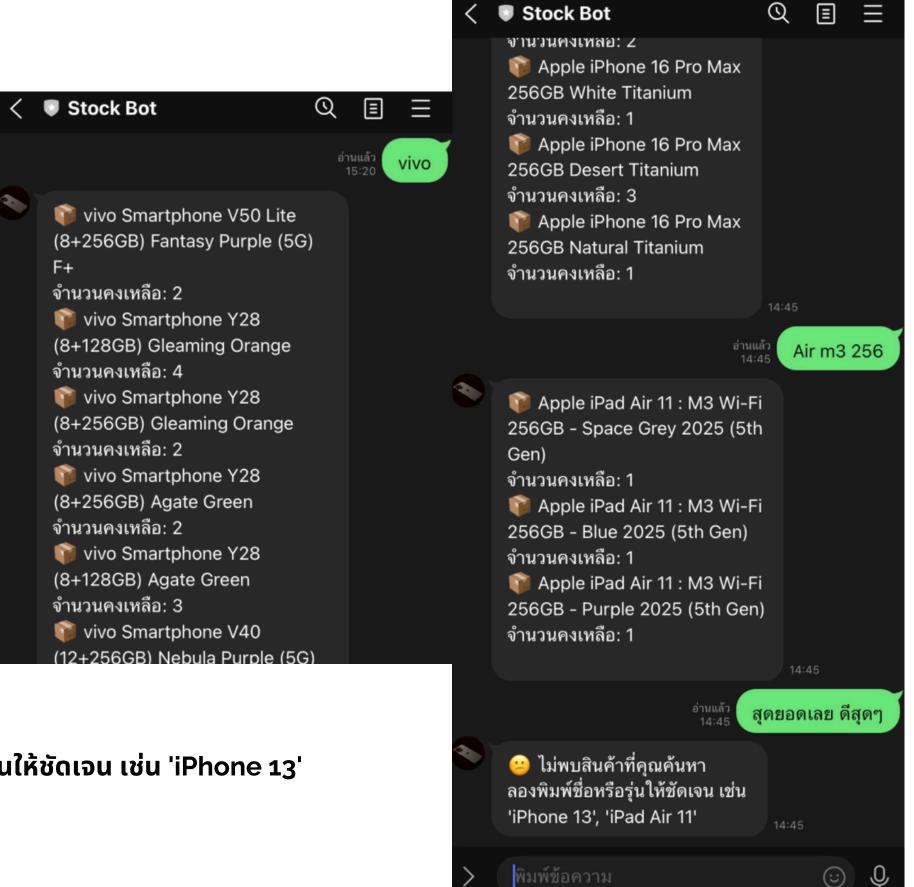
Demo Showcase

See how it works — in just a few seconds.

Step-by-step User Flow:

- 1. 👽 User types: "ภาแฟ" or "iPhone 13" in the LINE chat
- 2. Pot processes the message
- → Cleans and matches keywords using RegEx
- → Searches stock in Google Sheets
- 3. Pot replies with stock info
- makefile : 📦 iPhone 13 จำนวนคงเหลือ: 10
- X If no match found: 😕 ไม่พบสินค้าที่คุณค้นหา ลองพิมพ์ชื่อหรือรุ่นให้ชัดเจน เช่น 'iPhone 13'

From typing to answer — all within 3 seconds.



Future Improvements

The goal is not just to check stock — but to evolve this bot into a smart business assistant.

In the future, it can connect with real databases (MySQL, Firebase, AWS), support multi-user environments, and integrate AI or OpenAI API to understand user intent, recommend products, or summarize insights.

This intelligence can go beyond LINE — expanding to web apps, mobile apps, or custom dashboards.

Let's Begin!

Are you ready?

This project is just the beginning — built to grow with real business needs.

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Great things are not done by impulse, but by a series of small things brought together."

Vincent Van Gogh

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