Project Title: Crop Monitoring Using Computer Vision

**Current Status**:

The chatbot has been successfully enhanced beyond its initial version. It now supports multiple customer service intents including product details, location queries, and feedback, in addition to existing support topics. The program runs in a terminal and can handle multiple queries in a session, keeping track of conversation history through logs. Query count is also tracked for each session. The code remains lightweight, efficient, and dependency-free.

**Key Milestones Achieved:**

 Enhanced intent recognition with expanded keyword sets.

 Added logging system to record chat history in a .txt file.

 Integrated query counter for tracking interaction length.

 Improved code structure for easier extension and maintenance.

 Thoroughly tested chatbot responses in different scenarios.

**Challenges Faced:**

 Rule-based logic limits understanding of complex or ambiguous input.

 Lack of contextual memory (bot doesn't remember past user queries).

 No visual interface; console-only interaction restricts usability.

 Manual expansion of keyword list can become unscalable over time.

**Skillset Support Required**:

 Guidance on implementing NLP techniques for flexible intent detection.

 Help in developing a web-based user interface for broader accessibility.

 Support with cloud deployment (Render, Vercel, or GitHub Pages).

 Advice on managing and storing chat data efficiently (e.g., database integration).

**Next Steps:**

 Integrate a basic front-end using HTML/CSS/JS to replace the terminal UI.

 Introduce NLP with spaCy or an intent classifier model.

 Add session memory and contextual understanding features.

 Deploy the project to a cloud platform and test with real users.

 Collect feedback and prepare for final project showcase.