Hackathon Problem Statement: Gen-AI-Powered Return & Exchange Chatbot for E-Commerce

Problem Statement:

Managing product returns and exchanges is a major challenge for e-commerce platforms. Customers often struggle with complicated return policies, long processing times, and poor support experiences. Traditional customer service teams are overwhelmed with repetitive queries, leading to delays and dissatisfaction.

How can we leverage Generative AI (GenAI) to develop an intelligent chatbot that streamlines the return and exchange process for e-commerce customers?

Challenge:

Build an Al-powered chatbot that can:

- Guide users through the return/exchange process based on product type, policy, and purchase history.
- 2. **Understand customer intent** (return, exchange, refund, replacement) and provide instant solutions.
- 3. **Check order eligibility** for returns/exchanges based on the e-commerce platform's policies, provided as documents.
- 4. **Offer personalized recommendations** (e.g., alternative products for exchange).
- 5. Estimate the customer mood and act accordingly.

expected Output:

- An interactive AI chatbot that seamlessly handles returns and exchanges. Utilize Gen-AI ad reasoning engine for handling the conversation.
- Utilization of RAG for return/exchange policy verification by ingesting policy documents.
- Tools integration for connecting with order management system (Database).
- Customer mood detection for handover to human agent. (Optional)
- Exception handling and guardrails for preventing off topic conversations.