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from crewai import Crew, Process
from litellm import completion
from agents import Gtraders
from tasks import TradingTasks
from agents import Gtraders
import logging

# Set up logging
logging.basicConfig(level=logging.INFO, format='%(asctime)s - %(levelname)s - %(message)s')

# Create an instance of Gtraders with the specified model
gtraders = Gtraders(model="ollama/phi3.5:3.8b")

# Initialize the LLM using LiteLLM
model = "ollama/phi3.5:3.8b"
manager_llm = "ollama/phi3.5:3.8b"

# Create tasks using the TradingTasks class
trading_tasks = TradingTasks(gtraders)
tasks = trading_tasks.create_tasks()

# Create the crew with a hierarchical process
trading_crew = Crew(
    agents=gtraders.get_all_agents(),
    tasks=tasks,
    process=Process.hierarchical,
    manager_llm=manager_llm,
    verbose=True
)

def main():
    try:
        logging.info("Starting the trading crew...")
        result = trading_crew.kickoff()
        logging.info("Trading crew execution completed.")
        logging.info("Final Result:")
        print(result)

        # Here you can add additional processing of the result
        # For example, saving to a file, sending notifications, etc.

    except Exception as e:
        logging.error(f"An error occurred during crew execution: {e}")

if __name__ == "__main__":
    main()

```