

```
import os

from datetime import datetime, timedelta


from swarms import Agent

from swarm_models import OpenAIChat

from swarms.prompts.finance_agent_sys_prompt import (
    FINANCIAL_AGENT_SYS_PROMPT,
)

from swarms.structs.task import Task

from swarms.utils.loguru_logger import logger


# Example setup


# Get the OpenAI API key from the environment variable

api_key = os.getenv("OPENAI_API_KEY")


# Create an instance of the OpenAIChat class

model = OpenAIChat(
    api_key=api_key, model_name="gpt-4o-mini", temperature=0.1
)


# Initialize the agent

agent = Agent(
    agent_name="Financial-Analysis-Agent_sas_chicken_eej",
    system_prompt=FINANCIAL_AGENT_SYS_PROMPT,
    llm=model,
```

```
max_loops=1,  
autosave=True,  
dashboard=False,  
verbose=True,  
dynamic_temperature_enabled=True,  
saved_state_path="finance_agent.json",  
user_name="swarms_corp",  
retry_attempts=1,  
context_length=200000,  
return_step_meta=False,  
)
```

```
# Define a task with a condition and action
```

```
def condition_check():  
    # Example condition: Check if a certain file exists  
    return os.path.exists("finance_agent.json")
```

```
def post_execution_action():  
    logger.info("Task completed! Post execution action triggered.")
```

```
# Schedule the task to run 10 seconds from now
```

```
schedule_time = datetime.now() + timedelta(seconds=10)
```

```
# Schedule the task for 1 month from now
```

```
# schedule_time = datetime.now() + timedelta(days=30)
```

```
# Create the task instance
```

```
task = Task(
```

```
    agent=agent,
```

```
    description="How can I establish a ROTH IRA to buy stocks and get a tax break? What are the  
criteria",
```

```
    condition=condition_check,
```

```
    action=post_execution_action,
```

```
    schedule_time=schedule_time,
```

```
    trigger=None,
```

```
)
```

```
# Run the task
```

```
task.run(
```

```
    "How can I establish a ROTH IRA to buy stocks and get a tax break? What are the criteria"
```

```
)
```

```
# The task will be scheduled to run at the specified time, check the condition,
```

```
# execute if the condition is met, and perform the post-execution action.
```