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from typing import List, Optional
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from crewai import Agent as CrewAlAgent
from crewai import Crew, Process, Task
from crewai_tools import SerperDevTool
from loguru import logger
from swarms import Agent
class CrewAlAgentWrapper(Agent):
  Initialize the CrewAlAgentWrapper.
  Args:
     name (str): The name of the agent.
     role (str): The role of the agent.
     goal (str): The goal of the agent.
     backstory (str): The backstory of the agent.
     tools (Optional[List]): The tools used by the agent (default: None).
     *args: Variable length argument list.
     **kwargs: Arbitrary keyword arguments.
  def __init__(
     self,
```

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name: str,
  role: str,
  goal: str,
  backstory: str,
  tools: Optional[List] = None,
  *args,
  **kwargs,
):
  super().__init__(*args, **kwargs)
  self.name = name
  self.crewai_agent = CrewAlAgent(
     role=role,
     goal=goal,
     backstory=backstory,
     verbose=True,
     allow_delegation=False,
     tools=tools or [],
     *args,
     **kwargs,
  )
def run(self, task: str, *args, **kwargs):
  Run the agent's task.
  Args:
```

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task (str): The task to be performed by the agent.
  *args: Variable length argument list.
  **kwargs: Arbitrary keyword arguments.
Returns:
  Any: The result of the task execution.
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try:
  crew_task = Task(
     description=task,
     agent=self.crewai_agent,
     *args,
     **kwargs,
  )
  crew = Crew(
     agents=[self.crewai_agent],
     tasks=[crew_task],
     process=Process.sequential,
  )
  result = crew.kickoff()
  return result
except Exception as e:
  logger.error(f"An error occurred: {e}")
```

return None

```
# Usage example
search_tool = SerperDevTool()
crewai_wrapper = CrewAlAgentWrapper(
  name="ResearchAnalyst",
  role="Senior Research Analyst",
  goal="Uncover cutting-edge developments in AI and data science",
  backstory="""You work at a leading tech think tank.
  Your expertise lies in identifying emerging trends.
  You have a knack for dissecting complex data and presenting actionable insights.""",
  tools=[search_tool],
)
result = crewai_wrapper.run(
  "Analyze the latest trends in quantum computing and summarize the key findings."
)
print(result)
```