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import os
from typing import Any, Dict, Optional
from autogen import ConversableAgent
from loguru import logger
from swarms import Agent
class AutogenAgentWrapper(Agent):
  111111
  Wrapper class for the ConversableAgent that provides additional functionality.
  def __init__(
     self,
     name: str,
     Ilm_config: Dict[str, Any],
     *args: Any,
     **kwargs: Any,
  ):
     Initialize the AutogenAgentWrapper.
     Args:
       name (str): The name of the agent.
```

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Ilm_config (Dict[str, Any]): The configuration for the ConversableAgent.
     *args: Additional positional arguments.
     **kwargs: Additional keyword arguments.
  super().__init__(*args, **kwargs)
  self.name = name
  self.autogen_agent = ConversableAgent(
     name=name,
    Ilm_config=Ilm_config,
    code_execution_config=False,
    function_map=None,
    human_input_mode="NEVER",
  )
def run(
  self, task: str, *args: Any, **kwargs: Any
) -> Optional[str]:
  .....
  Run the AutogenAgentWrapper.
  Args:
    task (str): The task to be performed by the agent.
     *args: Additional positional arguments.
     **kwargs: Additional keyword arguments.
```

Returns:

```
Optional[str]: The response generated by the agent, or None if an error occurred.
     try:
       messages = [{"content": task, "role": "user"}]
       response = self.autogen_agent.generate_reply(messages)
       logger.info("Task: %s, Response: %s", task, response)
       return response
     except Exception as e:
       logger.error("An error occurred: %s", str(e))
       return None
Ilm_config = {
  "config_list": [
     {
       "model": "gpt-4",
       "api_key": os.environ.get("OPENAI_API_KEY"),
    }
  ]
autogen_wrapper = AutogenAgentWrapper("AutogenAssistant", Ilm_config)
result = autogen_wrapper.run("Tell me a joke about programming.")
print(result)
```

}