```
import json
import re
from typing import Any, Dict, List, Optional
from swarms.structs.agent import Agent
# Helper functions for manager/corporate agents
def parse_tasks(
  task: str = None,
) -> Dict[str, Any]:
  """Parse tasks
  Args:
     task (str, optional): _description_. Defaults to None.
  Returns:
     Dict[str, Any]: _description_
  .....
  tasks = {}
  for line in task.split("\n"):
     if line.startswith("<agent_id>") and line.endwith(
        "</agent_id>"
     ):
       agent_id, task = line[10:-11].split("><")
       tasks[agent_id] = task
```

```
def find_agent_by_id(
  agent_id: str = None,
  agents: List[Agent] = None,
  task: str = None,
  *args,
  **kwargs,
) -> Agent:
  """Find agent by id
  Args:
     agent_id (str, optional): _description_. Defaults to None.
     agents (List[Agent], optional): _description_. Defaults to None.
  Returns:
     Agent: _description_
  for agent in agents:
     if agent.id == agent_id:
       if task:
          return agent.run(task, *args, **kwargs)
       else:
          return agent
```

```
def distribute_tasks(
  task: str = None, agents: List[Agent] = None, *args, **kwargs
):
  """Distribute tasks to agents
  Args:
     task (str, optional): _description_. Defaults to None.
     agents (List[Agent], optional): _description_. Defaults to None.
  # Parse the task to extract tasks and agent id
  tasks = parse_tasks(task)
  # Distribute tasks to agents
  for agent_id, task in tasks.item():
     assigned_agent = find_agent_by_id(agent_id, agents)
     if assigned_agent:
       print(f"Assigning task {task} to agent {agent_id}")
       output = assigned_agent.run(task, *args, **kwargs)
       print(f"Output from agent {agent_id}: {output}")
     else:
       print(
          f"No agent found with ID {agent_id}. Task '{task}' is"
          " not assigned."
```

```
def find_token_in_text(text: str, token: str = "<DONE>") -> bool:
  ....
  Parse a block of text for a specific token.
  Args:
     text (str): The text to parse.
     token (str): The token to find.
  Returns:
     bool: True if the token is found in the text, False otherwise.
  ....
  # Check if the token is in the text
  if token in text:
     return True
  else:
     return False
def extract_key_from_json(
  json_response: str, key: str
) -> Optional[str]:
```

Extract a specific key from a JSON response.

)

....

```
json_response (str): The JSON response to parse.
     key (str): The key to extract.
  Returns:
     Optional[str]: The value of the key if it exists, None otherwise.
  ....
  response_dict = json.loads(json_response)
  return response_dict.get(key)
def extract_tokens_from_text(
  text: str, tokens: List[str]
) -> List[str]:
  ....
  Extract a list of tokens from a text response.
  Args:
     text (str): The text to parse.
     tokens (List[str]): The tokens to extract.
  Returns:
     List[str]: The tokens that were found in the text.
  ....
  return [token for token in tokens if token in text]
```

Args:

| def detect_markdown(text: str) -> bool: |
|---|
| нин |
| Checks if a string contains Markdown code enclosed in six backticks. |
| Parameters |
| |
| text: str |
| The text to check. |
| |
| Returns |
| |
| bool |
| True if the text contains Markdown code enclosed in six backticks, False otherwise. |
| нин |
| pattern = r"````[\s\S]*?```" |
| return bool(re.search(pattern, text)) |
| |