```
import time
from typing import List, Any, Dict, Optional
import uuid
from pydantic import BaseModel, model_validator, Field
from swarms_cloud.schema.cog_vlm_schemas import (
  AgentChatCompletionResponse,
from swarms cloud.schema.swarm schema import SwarmAPISchema
# Define the input model using Pydantic
class AgentInput(BaseModel):
  id: str = uuid.uuid4().hex
  created_at: int = time.time()
  owned_by: Optional[str] = Field(None, description="The owner of the agent.")
  agent_name: str = "Swarm Agent"
  system_prompt: str = None
  agent description: str = None
  model_name: str = "OpenAlChat"
  max_{loops}: int = 1
  dynamic_temperature_enabled: bool = False
  streaming_on: bool = False
  sop: str = None
  sop_list: List[str] = None
  user name: str = "User"
```

```
retry_attempts: int = 3
context_length: int = 8192
task: str = None
max_tokens: int = None
tool_schema: Any = None
long_term_memory: str = None
tools: List[Dict[str, Any]] = None
@model_validator(mode="before")
def check_required_fields(cls, values):
  required_fields = [
     "agent_name",
     "system_prompt",
     "task",
     "max_loops",
  ]
  for field in required_fields:
     if not values.get(field):
       raise ValueError(f"{field} must not be empty or null")
  if values["max_loops"] <= 0:
     raise ValueError("max_loops must be greater than 0")
  if values["context_window"] <= 0:
```

```
if values["max_tokens"] <= 0:</pre>
       raise ValueError("max_tokens must be greater than 0")
     return values
class ModelSchema(BaseModel):
  ....
  Represents a model schema.
  Attributes:
     id (str): The ID of the model.
     object (str): The type of object, which is set to "model" by default.
     created_at (int): The timestamp of when the model was created.
     owned_by (str): The owner of the model.
  111111
  id: str = None
  object: str = "model"
  created_at: int = time.time()
  owned_by: str = "TGSC"
```

class ModelList(BaseModel):

raise ValueError("context\_window must be greater than 0")

```
object: str = "list"
  data: List[ModelSchema] = Field(..., description="The list of models available.")
# Define the output model using Pydantic
class AgentOutput(BaseModel):
  completions: AgentChatCompletionResponse
class ParallelSwarmAPIInput(BaseModel):
  111111
  Represents a parallel swarm API.
  Attributes:
     id (str): The ID of the API.
     object (str): The type of object, which is set to "api" by default.
     created_at (int): The timestamp of when the API was created.
     owned_by (str): The owner of the API.
  11 11 11
  config: SwarmAPISchema = Field(
     ..., description="The configuration for the swarm API."
  )
  agents: List[AgentInput] = Field(
     ..., description="The list of agents in the swarm."
  )
```

```
class ParallelSwarmAPIOutput(BaseModel):
  ....
  Represents a parallel swarm API.
  Attributes:
     id (str): The ID of the API.
     object (str): The type of object, which is set to "api" by default.
     created_at (int): The timestamp of when the API was created.
     owned_by (str): The owner of the API.
  config: SwarmAPISchema = Field(
     ..., description="The configuration for the swarm API."
  )
  completions: List[AgentOutput] = Field(
     ..., description="The list of agents and their completions."
  )
# full_example = ParallelSwarmAPIOutput(
#
    completions=[
#
      AgentOutput(
#
         completions=AgentChatCompletionResponse(
```

task: str = Field(..., description="The task to be performed by the agents.,")

```
#
           agent_name="Agent 1",
#
           completion="Completion 1",
#
           created_at=1628584185,
           owned by="TGSC",
#
        )
#
      ),
#
      AgentOutput(
#
         completions=AgentChatCompletionResponse(
#
#
           agent_name="Agent 2",
           completion="Completion 2",
#
#
           created_at=1628584185,
#
           owned_by="TGSC",
        )
#
      ),
#
#
   1
#)
# print(full_example.dict())
class AgentCreationOutput(BaseModel):
  id: str = uuid.uuid4().hex
  name: str = Field(description="The name of the agent.")
  description: str = Field(description="The description of the agent.")
  tags: str = Field(
      description="The tags associated with the agent, example: Finance Agent, Chat Agent, Math
```