from swarm_models.base_llm import BaseLLM from pydantic import BaseModel from typing import List, Dict import openai class OpenRouterRequest(BaseModel): model: str messages: List[Dict[str, str]] = [] class OpenRouterChat(BaseLLM): A class representing an OpenRouter chat model. Args: model_name (str): The name of the OpenRouter model. base_url (str, optional): The base URL for the OpenRouter API. Defaults to "https://openrouter.ai/api/v1/chat/completions". openrouter_api_key (str, optional): The API key for accessing the OpenRouter API. Defaults to None. system_prompt (str, optional): The system prompt for the chat model. Defaults to None. *args: Variable length argument list. **kwargs: Arbitrary keyword arguments. Attributes:

```
model_name (str): The name of the OpenRouter model.
  base_url (str): The base URL for the OpenRouter API.
  openrouter_api_key (str): The API key for accessing the OpenRouter API.
  system_prompt (str): The system prompt for the chat model.
Methods:
  run(task, *args, **kwargs): Runs the chat model with the given task.
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def __init__(
  self,
  model_name: str,
  base_url: str = "https://openrouter.ai/api/v1/chat/completions",
  openrouter_api_key: str = None,
  system_prompt: str = None,
  *args,
  **kwargs,
):
  super().__init__(*args, **kwargs)
  self.model_name = model_name
  self.base_url = base_url
  self.openrouter_api_key = openrouter_api_key
  self.system_prompt = system_prompt
  openai.api_base = "https://openrouter.ai/api/v1"
```

```
openai.api_key = openrouter_api_key
def run(self, task: str, *args, **kwargs) -> str:
  .....
  Runs the chat model with the given task.
  Args:
     task (str): The user's task for the chat model.
     *args: Variable length argument list.
     **kwargs: Arbitrary keyword arguments.
  Returns:
     str: The response generated by the chat model.
  ....
  response = openai.ChatCompletion.create(
     model=self.model_name,
     messages=[
       {"role": "system", "content": self.system_prompt},
       {"role": "user", "content": task},
     ]
     * args,
     **kwargs,
  )
  return response.choices[0].message.text
```