import os

from swarms import Agent

from swarm_models import OpenAlChat

from swarms.structs.spreadsheet_swarm import SpreadSheetSwarm

Define custom system prompts for each social media platform

TWITTER_AGENT_SYS_PROMPT = """

You are a Twitter marketing expert.

Your task is to create engaging, concise tweets and analyze trends to maximize engagement.

Consider hashtags, timing, and content relevance.

....

INSTAGRAM AGENT SYS PROMPT = """

You are an Instagram marketing expert. Your task is to create visually appealing and engaging content, including captions and hashtags, tailored to a specific audience.

"""

FACEBOOK AGENT SYS PROMPT = """

You are a Facebook marketing expert. Your task is to craft posts that are optimized for engagement and reach on Facebook, including using images, links, and targeted messaging.

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EMAIL_AGENT_SYS_PROMPT = """

You are an Email marketing expert. Your task is to write compelling email campaigns that drive

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conversions, focusing on subject lines, personalization, and call-to-action strategies.
# Example usage:
api_key = os.getenv("OPENAI_API_KEY")
# Model
model = OpenAlChat(
  openai_api_key=api_key, model_name="gpt-4o-mini", temperature=0.1
)
# Initialize your agents for different social media platforms
agents = [
  Agent(
    agent_name="Twitter-Marketing-Agent",
    system_prompt=TWITTER_AGENT_SYS_PROMPT,
    Ilm=model,
    max_loops=1,
    dynamic_temperature_enabled=True,
    saved_state_path="twitter_agent.json",
    user_name="swarms_corp",
    retry_attempts=1,
  ),
  Agent(
    agent_name="Instagram-Marketing-Agent",
    system_prompt=INSTAGRAM_AGENT_SYS_PROMPT,
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Ilm=model,
  max_loops=1,
  dynamic_temperature_enabled=True,
  saved_state_path="instagram_agent.json",
  user_name="swarms_corp",
  retry_attempts=1,
),
Agent(
  agent_name="Facebook-Marketing-Agent",
  system_prompt=FACEBOOK_AGENT_SYS_PROMPT,
  Ilm=model,
  max_loops=1,
  dynamic_temperature_enabled=True,
  saved_state_path="facebook_agent.json",
  user_name="swarms_corp",
  retry_attempts=1,
),
Agent(
  agent_name="Email-Marketing-Agent",
  system_prompt=EMAIL_AGENT_SYS_PROMPT,
  Ilm=model,
  max_loops=1,
  dynamic_temperature_enabled=True,
  saved_state_path="email_agent.json",
  user_name="swarms_corp",
  retry_attempts=1,
```

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),
]
# Create a Swarm with the list of agents
swarm = SpreadSheetSwarm(
  name="Social-Media-Marketing-Swarm",
   description="A swarm that processes social media marketing tasks using multiple agents on
different threads.",
  agents=agents,
  autosave_on=True,
  save_file_path="social_media_marketing_spreadsheet.csv",
  run_all_agents=False,
  max_loops=2,
)
# Run the swarm
out = swarm.run(
   task="Create posts to promote hack nights in miami beach for developers, engineers, and tech
enthusiasts. Include relevant hashtags, images, and engaging captions."
)
print(out)
```