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import os
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from dotenv import load_dotenv
import swarms.prompts.security_team as stsp
from swarm_models import GPT4VisionAPI
from swarms.structs import Agent
# Load environment variables and initialize the Vision API
load_dotenv()
api_key = os.getenv("OPENAI_API_KEY")
Ilm = GPT4VisionAPI(openai_api_key=api_key)
# Image for analysis
img = "bank_robbery.jpg"
# Initialize agents with respective prompts for security tasks
crowd_analysis_agent = Agent(
  Ilm=Ilm,
  sop=stsp.CROWD_ANALYSIS_AGENT_PROMPT,
  max_loops=1,
  multi_modal=True,
)
weapon_detection_agent = Agent(
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Ilm=Ilm,
  sop=stsp.WEAPON_DETECTION_AGENT_PROMPT,
  max_loops=1,
  multi_modal=True,
surveillance_monitoring_agent = Agent(
  Ilm=Ilm,
  sop=stsp.SURVEILLANCE_MONITORING_AGENT_PROMPT,
  max_loops=1,
  multi_modal=True,
)
emergency_response_coordinator = Agent(
  Ilm=Ilm,
  sop=stsp.EMERGENCY_RESPONSE_COORDINATOR_PROMPT,
  max_loops=1,
  multi_modal=True,
)
# Run agents with respective tasks on the same image
crowd_analysis = crowd_analysis_agent.run(
  "Analyze the crowd dynamics in the scene", img
)
weapon_detection_analysis = weapon_detection_agent.run(
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"Inspect the scene for any potential threats", img
)
surveillance_monitoring_analysis = surveillance_monitoring_agent.run(
  "Monitor the overall scene for unusual activities", img
)
emergency_response_analysis = emergency_response_coordinator.run(
  "Develop a response plan based on the scene analysis", img
)
# Process and output results for each task
# Example output (uncomment to use):
print(f"Crowd Analysis: {crowd_analysis}")
print(f"Weapon Detection Analysis: {weapon_detection_analysis}")
print(
  "Surveillance Monitoring Analysis:"
  f" {surveillance_monitoring_analysis}"
)
print(f"Emergency Response Analysis: {emergency_response_analysis}")
```